

# CORN TALK

June / July 2014

A Publication for North Dakota Corn Growers Association Members

NORTH DAKOTA  
**CORN  
GROWERS**  
ASSOCIATION



## ***Start your engines!***

ND Corn is proud to sponsor E85 Racing Night Friday, June 13, 2014, at the River Cities Speedway in Grand Forks, N.D.



Hot laps begin at 6:30 p.m.  
Race time starts at 7:30 p.m.

For more information about race night visit our website at [www.ndcorn.org](http://www.ndcorn.org).

## CALENDAR OF EVENTS

### **JUNE 13, 2014**

ND Corn Race Night  
7:30 p.m.  
River Cities Speedway  
Grand Forks, N.D.

### **JUNE 16, 2014**

National Corn Yield Contest  
Deadline for early reduced fee - \$75

### **JULY 8-9, 2014**

Corn Board Meetings  
Carrington, N.D.

### **JULY 8-13, 2014**

Red River Valley Fair  
Check out our Ag Cab Lab!  
West Fargo, N.D.

### **JULY 14-18, 2014**

Corn Congress  
Washington, D.C.

### **JULY 14, 2014**

ND Ethanol Golf Scramble  
Oxbow Golf Course  
Oxbow, N.D.

### **JULY 17, 2014**

CCSP Farm Tour  
Forman, N.D.

### **JULY 23, 2014**

ND Corn Classic  
Maple River Golf Course  
Mapleton, N.D.

### **AUGUST 5, 2014**

ND Corn Pop it UP!  
F-M RedHawks Baseball Game  
Newman Outdoor Field  
Fargo, N.D.

### **AUGUST 21, 2014**

NDSU Share Farm Tour  
Mooreton, N.D.

### **SEPTEMBER 9-11, 2014**

BIG IRON  
Red River Valley Fair Grounds  
West Fargo, N.D.

## *12<sup>th</sup> Annual* **ND Corn Classic** *Maple River Golf Course • July 23, 2014*

Sign up today for the 12<sup>th</sup> Annual ND Corn Classic Tournament. The event takes place at the Maple River Golf Course in Mapleton, N.D. The course is sure to provide a challenge to golfers of all levels and expertise.

*See page three of this issue for the Golfer Registration Form and payment information.*



**August 5, 2014**

## **F-M RedHawks Night**

ND Corn Growers Association Members are invited to nine innings of fun at Newman Outdoor Field on Tuesday, Aug. 5 at 7:02 p.m.

To reserve your **FREE** tickets to the F-M RedHawks vs. Wichita Wingnuts game, please call Kristen 701.364.2250 or email [Kristen@ndcorn.org](mailto:Kristen@ndcorn.org) today!

The first **1,000** fans will receive a free bag of popcorn at the game for our **"POP it UP!"** promotion!



## EXECUTIVE DIRECTOR'S COMMENTS

### INTRODUCING ND CORN PAC - TOM LILJA



With a host of challenges ahead of the corn industry, the North Dakota Corn Growers Board of Directors approved ND Corn PAC early this year. The ND Corn PAC will contribute to candidates who have favorable voting records for the North Dakota Corn Industry.

The list of challenges that lie ahead are daunting. The Renewable Fuels

Standard of 2007 is under constant assault. Despite the fact that the RFS has lowered our nation's fuel costs more than \$1.09 per gallon and lowered countercyclical payments to the farming community, we still find our opponents blaming a policy that lowered our dependence on foreign oil from 62 percent to 38 percent since its enactment. Out of more than 198,000 positive comments favoring the RFS, 112,000 of those came from veteran's groups. Perhaps our public officials should listen to those who have fought for our freedoms and who recognize the terrible cost of our liquid fuel dependency from other nations.

As if the EPA's re-writing of the RFS wasn't enough, growers are finding ourselves under constant assault by those who claim agriculture is the primary contributor to higher nitrate levels in our lakes and streams. Despite a numerous amount of data from the North Dakota

Department of Health that shows these levels are near or below the minimum thresholds, its obvious their goal is zero, which is impossible. During one of the water quality meetings I asked if there was a difference in these nitrate levels before and after our rivers entered municipal areas. The answer was that the data showed much higher levels of nitrates in rivers after they left municipal areas. Perhaps the EPA should read the data and focus on these areas rather than putting a bull's-eye on the back of agriculture.

In May of 2014, North Dakota State University released a report citing that delays in agricultural shipments by rail service have cost North Dakota farmers over \$66 million dollars. The study also found that if conditions don't improve, farmers could stand to lose an additional \$95 million in income. This was a conservative estimate as the report was limited to corn, soybeans and spring wheat. Perhaps we as growers should say thank God for ethanol plants and other value added processes.

With the challenges facing our fuel supply, burdensome regulation, transportation and others, perhaps it is time for you to contribute to ND Corn PAC. Please join us on July 23 for the inaugural ND Corn PAC golf outing at the Maple River Golf Club. Your personal checks to "ND Corn PAC" ensures your voice is heard!

### Golf cart and hole sponsorships available!

Email Betsy at [betsy@ndcorn.org](mailto:betsy@ndcorn.org) to sponsor the ND Corn Golf Classic. The sponsorship for each hole and cart is \$100.



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# 12<sup>th</sup> Annual ND Corn Classic

Maple River Golf Course • July 23, 2014

## Golfer Registration Form

The ND Corn Political Action Committee (PAC) is dedicated to supporting political candidates who support the growth, development and research of the corn industry at both state and federal level.\*

**Registration:** 11 a.m.  
**Shotgun Start:** Noon  
**Dinner:** 5 p.m.

Name: \_\_\_\_\_ Handicap: \_\_\_\_\_  
Address: \_\_\_\_\_ City, State & Zip: \_\_\_\_\_  
Email: \_\_\_\_\_ Phone: \_\_\_\_\_

## Additional Golfers

Name: \_\_\_\_\_ Handicap: \_\_\_\_\_  
Name: \_\_\_\_\_ Handicap: \_\_\_\_\_  
Name: \_\_\_\_\_ Handicap: \_\_\_\_\_

## Registration Fee

Registration fee includes green fees, cart, box lunch and steak dinner.

- \_\_\_\_\_ *Early - \$100/person - before 7/14/14*
- \_\_\_\_\_ *Late - \$150/person - after 7/14/14*
- \_\_\_\_\_ *Ribeye Steak Dinner (No Golf) - \$20/person*
- \_\_\_\_\_ *Mulligans are available! Two mulligans and three putts in the putting contest for \$20.*

**Total Registration Fee:** \_\_\_\_\_

## Payment Information

Make personal checks payable to: ND Corn - PAC

Make corporate checks payable to: NDCGA

Type of Credit Card: \_\_\_\_\_ Name on Card: \_\_\_\_\_

Is this a corporate credit card? (please circle one): Yes or No

Credit Card #: \_\_\_\_\_

Expiration Date: \_\_\_\_\_ CVN: \_\_\_\_\_

\* Disclosure: ND Corn PAC cannot accept corporate contributions. PAC's are required to report the name and mailing address of each contributor of MORE than \$200.

For more information, please contact Betsy at 701-364-2250 or [betsy@ndcorn.org](mailto:betsy@ndcorn.org)  
Alternate day for inclement weather will be on August 13, 2014.



## ACE FLY-IN RECAP

On March 25-26 in Washington, D.C., Jeff Enger, Mike Clemens, Michael Howe, Kevin Skunes and Deana Weise (ND Ethanol Council) met with staff representatives from California, New Hampshire, Georgia, Illinois and Texas. The majority of those met were supportive of the RFS, but wanted to see cellulosic production pick up in order to remain supportive. Most said that they don't foresee votes on any RFS legislation in the near future, so they have been focused on other issues. There still were several that thought the VEETC Blenders Credit was in place, and we witnessed lots of misinformation on food vs. fuel and energy use, so it was a good educational opportunity.

There was also an opportunity to meet with Sen. Heitkamp and Rep. Cramer's offices. Both are supportive of the RFS, and we also shared rail concerns, which they are both working on diligently. Jack Huerter with Sen. Heitkamp's office said that the Senator has received solid reassurance from key EPA leaders that the 2014 RVOs would be raised from EPA's November proposal.



Representatives from ND Corn Michael Howe, Kevin Skunes and Mike Clemens pose for a picture in Washington, D.C. at the 2014 ACE Fly-In.

## NCYC ONLINE ENTRY NOW OPEN

The National Corn Growers Association invites farmers to register early for NCGA's National Corn Yield Contest and save big on entry fees. Until June 16, fees will be reduced to \$75. NCGA reminds growers that a small time investment now saves money later this summer.

To enter today using the online form, go to <https://membership.ncga.com/CornYieldContest/>. NCGA will also release a version of the online form suitable for use on mobile devices in the near future.

Entry will remain open at the full rate of \$110 through August 1. All harvest forms will be due by November 21. Contest winners will be announced on December 19.

For access to contest information and a detailed list of the entry and harvest rules go to <http://www.ncga.com/farmers/national-corn-yield-contest>.

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## NITROGEN CALCULATOR



We are excited to announce the new NDSU nitrogen management tool. This tool is still applicable for the 2014 production season.

The data used in development of the North Dakota Corn Nitrogen Calculator was gathered with funding from the North Dakota Corn Council, the International Plant Nutrition Institute, and Pioneer Hi-Bred, Int. Data was gathered by Dr. Dave Franzen, lead investigator, with collaboration from Roger Ashley, Greg Endres, Jasper Teboh, Lakesh Sharma, Honggang Bu, Brad Schmidt and Eric C. Schultz. Dr. John Lamb, University of Minnesota, St. Paul, John Heard, Soil Fertility Specialist, Manitoba Agriculture, and Ron Gelderman, South Dakota State University also contributed recent N rate data used in the analysis.

To access the calculator you can find it at [www.ndsu.edu/pubweb/soils/corn](http://www.ndsu.edu/pubweb/soils/corn) or on our website at [www.ndcorn.org/NitrogenCalculator](http://www.ndcorn.org/NitrogenCalculator).



## 2014 CORPORATE SPONSORS

Thank you for your support!

### PLATINUM LEVEL

DEKALB  
DuPont Pioneer

### GOLD LEVEL

Cargill  
Dyna-Gro Seed  
Farm & Ranch Guide  
Mustang Seeds  
Peterson Farms Seed  
Proseed

### SILVER LEVEL

AgCountry Farm Credit Services  
Conklin AgroVantage/AgroValley, Inc.  
Bayer Crop Science  
Ellingson Drainage  
Legend Seeds  
Nuseed  
Thunder Seed  
Titan Machinery  
Wensman Seed  
Westeel USA

### BRONZE LEVEL

Agassiz Drain Tile  
American Ag Network  
BASF The Chemical Company  
Butler Machinery  
Columbia Grain, Inc.  
Gateway Building Systems  
Mycogen Seed/Dow Agro Sciences  
ND Stockmen's Association  
North Country Ag Services  
North Dakota Farm Credit Services  
NuTech Seed  
Red River Farm Network



# They are what they eat: the skinny on fat and distillers grains in a finishing ration

*Distillers grains with different fat content have limited to no effect on feedlot performance, research indicates*

By Sheyna Strommen for the North Dakota Ethanol Council

Research from North Dakota State University (NDSU) indicates that fat content in distillers grains has limited to no effect on several important economic traits in the feedlot. The research conducted by NDSU Animal Scientist Vern Anderson and others at the Carrington Research Extension Center examined differences in several carcass and feedlot traits of cattle that had been fed rations containing "high-fat," "medium-fat" or "low-fat" distillers grains compared to those cattle that were fed a control ration.

The researchers' findings indicate that differences in feed intake, average daily gain and efficiency were negligible in cattle fed low-fat distillers grains compared with those fed high-fat or medium-fat distillers grains or the control ration. For specific results, please see the table below.

"Generally, we were surprised there wasn't more difference in animal performance," Anderson explained. The animals included in the study were also a part of the North Dakota Angus Association's Angus University Program or the Turtle Lake Feeder Calf Show. The study included a "really good sampling of North Dakota feeder calves," Anderson added.

Not as surprising to Anderson, researchers in Carrington found that increased levels of fat did have a positive

effect on marbling scores – i.e., the higher the fat content in distillers grains, the higher the marbling scores. The challenge for feeders who finish cattle, according to Anderson, is calculating whether or not the expense of adding fat to a finishing ration would provide enough economic return in improved marbling scores.

That calculation may change in a backgrounding or growing ration, which are primarily forage based. "A source of cheap fat – in the form of oilseed screenings – may provide a bigger effect on animal performance in the growing phase when energy density becomes more critical," Anderson explained.

Overall, the results on carcass quality in the finishing phase were consistent with what Anderson and his colleagues expected – that feeds which contain energy density will produce higher fat in the carcass and marbling is a part of that fat component, he said.

The bottomline is, cattle performed consistently in efficiency, feed intake and average daily gain among all finishing rations in the study. That is good news for ranchers who had questions about feeding distillers grains with reduced fat content.

## Where did the fat go?

Near the end of the corn-to-etha-



Vern Anderson of the NDSU Carrington Research Extension Center.

nol-to-distillers grains production process, a portion of the fat left in distillers grains may be extracted to produce biodiesel. The question researchers had was what effect this lower-fat product would have on animal performance. The answer, as it appears from this study, is "negligible."

The full results from the study can be found in an upcoming *NDSU Beef Research Results* booklet.

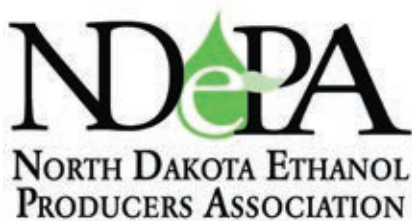
**Carcass traits of steers fed distiller grains with different fat levels**

|                       | Treatments |         |            |          |         |         | Contrast |           |
|-----------------------|------------|---------|------------|----------|---------|---------|----------|-----------|
|                       | Control    | Low Fat | Medium Fat | High Fat | Std Err | P Value | Linear   | Quadratic |
| Hot carcass wt, lbs   | 850        | 846     | 850        | 866      | 6.05    | 0.18    | 0.09     | 0.15      |
| Dressing percent      | 62.62      | 62.83   | 63.11      | 63.03    | 0.20    | 0.34    | 0.12     | 0.44      |
| Rib eye area, sq. in. | 13.89      | 14.00   | 13.89      | 13.55    | 0.13    | 0.14    | 0.07     | 0.11      |
| Fat thickness, in     | 0.49       | 0.56    | 0.54       | 0.54     | 0.02    | 0.30    | 0.29     | 0.24      |
| KPH, %                | 2.34       | 2.32    | 2.39       | 2.31     | 0.04    | 0.48    | 0.77     | 0.47      |
| Yield Grade*          | 2.98       | 3.11    | 3.10       | 3.27     | 0.10    | 0.27    | 0.07     | 0.81      |
| Marbling score**      | 444        | 442     | 482        | 493      | 14.24   | 0.07    | 0.02     | 0.64      |
| USDA Choice           | 67%        | 72%     | 82%        | 89%      |         |         |          |           |

\* Yield Grade is numerical score relating to fat to lean proportions of a carcass with low score less fat

\*\* Score used to determine quality grade with 300-399= USDA Select; 400-499= USDA Low Choice

a, b Values with different superscripts are significantly different, P < 0.05



# PAC Golf Scramble

July 14, 2014 · Oxbow Golf and Country Club

## Golfers Wanted!

**Political Action Committee (PAC):** The NDEPA PAC is dedicated to supporting political candidates who support the growth and development of ethanol production at both the state and federal level. Only **PERSONAL CHECKS** can be eposited into the PAC account, so they are preffered.

**The Course:** The greens at Oxbow Golf and Country Club (130 Oxbow Drive, Oxbow, ND) are said to be some of the best around the country; they roll smooth and true. A professionally designed golf course created by one of today's most accomplished golf course architects, Robert Trent Jones JR., Oxbow features 6,833 yards of golf from the longest tees for a par of 72. The use of ponds and the famous "Oxbow" lend challenging playability features and natural beauty to the course.

**Scramble Format:** Mixed 4-person

**Registration:** 11 a.m.

**Shotgun start:** Noon

**Dinner:** 5 p.m.

**Entry Fee:** \$125 (by July 7)

\*includes green fees, cart, box lunch and steak dinner

### Registration Form:

Name: \_\_\_\_\_ Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_ Handicap: \_\_\_\_\_  
Phone: \_\_\_\_\_ Email: \_\_\_\_\_

### Additional Golfers:

Name: \_\_\_\_\_ Handicap: \_\_\_\_\_ Email: \_\_\_\_\_  
Name: \_\_\_\_\_ Handicap: \_\_\_\_\_ Email: \_\_\_\_\_  
Name: \_\_\_\_\_ Handicap: \_\_\_\_\_ Email: \_\_\_\_\_

\$ \_\_\_\_\_ \$125 golf fee x \_\_\_\_\_ number of players  
\$ \_\_\_\_\_ \$30 not a golfer, but will join for dinner x \_\_\_\_\_ persons  
\$ \_\_\_\_\_ Total

### Payment Information:

Make personal checks payable to: NDEPA PAC  
Make corporate checks payable to: NDEPA

For more information, contact Anne at  
701-355-4458 or clear7@btinet.net.

**Personal Checks Preferred!**

## TEMPORARY CDL REQUIREMENTS

The following is the exact language out of the North Dakota Century Code (NDCC) and the Code of Federal Register (CFR) outlining the state and federal requirements for a temporary use commercial driver's license. A temporary use CDL can be obtained at your local driver's license office.

This document is intended to convey the temporary CDL requirements to the public. These requirements are not under the jurisdiction of the North Dakota Department of Agriculture.

### **NDCC 39-06.2-06.5 Commercial driver's license requirements state:**

Pursuant to the limitations imposed by 49 CFR part 383.3, the required knowledge and skills tests may be waived and a restricted commercial driver's license issued for a single period of one hundred eighty days or two periods of ninety days within a twelve-month period to employees of agrichemical businesses, custom harvesters, farm retail outlets and suppliers, including retailers and suppliers of trees, and livestock feeders.

The limitations imposed by 49 CFR part 383.3 are as follows:

#### **(f) Restricted CDL for certain drivers in farm-related service industries.**

(1) A State may, at its discretion, waive the required knowledge and skills tests of subpart H of this part and issue restricted CDLs to employees of these designated farm-related service industries:

- (i) Agri-chemical businesses;
- (ii) Custom harvesters;
- (iii) Farm retail outlets and suppliers;
- (iv) Livestock feeders.

(2) A restricted CDL issued pursuant to this paragraph shall meet all the requirements of this part, except subpart H of this part. **A restricted CDL issued pursuant to this paragraph shall be accorded the same reciprocity as a CDL meeting all of the requirements of this part.** The restrictions imposed upon the issuance of this restricted CDL shall not limit a person's use of the CDL in a non-CMV

during either validated or non-validated periods, nor shall the CDL affect a State's power to administer its driver licensing program for operators of vehicles other than CMVs.

(3) A State issuing a CDL under the terms of this paragraph must restrict issuance as follows:

(i) **Applicants must have a good driving record as defined in this paragraph.** Drivers who have not held any motor vehicle operator's license for at least one year shall not be eligible for this CDL. Drivers who have between one and two years of driving experience must demonstrate a good driving record for their entire driving history. Drivers with more than two years of driving experience must have a good driving record for the two most recent years. For the purposes of this paragraph, the term good driving record means that an applicant:

**(A) Has not had more than one license (except in the instances specified in § 383.21);**

**(B) Has not had any license suspended, revoked, or canceled;**

**(C) Has not had any conviction for any type of motor vehicle for the disqualifying offenses contained in § 383.51(b);**

*Disqualification* means any of the following three actions:

(1) The suspension, revocation, or cancellation of a CLP or CDL by the State or jurisdiction of issuance.

(2) Any withdrawal of a person's privileges to drive a CMV by a State or other jurisdiction as the result of a violation of State or local law relating to motor vehicle traffic control (other than parking, vehicle weight or vehicle defect violations).

(3) A determination by the FMCSA that a person is not qualified to operate a commercial motor vehicle under part 391 of this subchapter.

- CONTINUED ON PAGE 11 -

April 14, 2014

The Honorable Jack Dalrymple  
Governor  
State of North Dakota  
600 East Boulevard Avenue  
Bismarck, ND 58505

Dear Governor Dalrymple,

It has come to our attention that the National Corn Growers Association is seeking site selection bids by July 1, 2014, for the newly formed National Agricultural Genomics Center (NAGC). This laboratory has become possible through the National Corn Growers Association partnership with Los Alamos National Laboratories in New Mexico. Through this partnership a new rapid test assay has been developed for citrus pathogens that will translate into solutions for production agriculture, food safety, functional foods, bioenergy and national security. We believe the State of North Dakota is a perfect candidate for the NAGC site and strongly encourage your support.

The site selection process is just the beginning, as new assay tests will be developed out of NAGC for a variety of crops. The downstream benefits to our state are numerous including identification of genetic traits, detection and monitoring of pathogens, food safety and confirmation of genetics and traits. Genetic improvement in crops will lead to better nutrient and water efficiency, cold tolerance, wet/dry tolerance, dry down, pest and disease resistance. NAGC will also serve in detection and characterization of mycotoxins and plant pathogens. A corn disease multiplexed assay to be developed will be able to detect all known corn pathogens. This assay will allow breeders, consultants, agronomists and farmers to identify pathogens from leaf samples before symptoms become visible. Multiplexed assays will be developed for other crops and potentially for the animal and apiary sciences in the future from NAGC.

Herbicide resistant weeds and pesticide resistance insects are becoming a more prevalent problem in our industry. Once researchers determine the genetic changes that make pests resistant, assays can be developed to identify these genetic changes. Assays will be used by breeders, consultants, agronomists and farmers to identify weeds that are herbicide resistant prior to spraying. In addition, farmers can send insects to NAGC to determine if they are Bt or insecticide resistant. This information will be invaluable for integrated pest management programs.

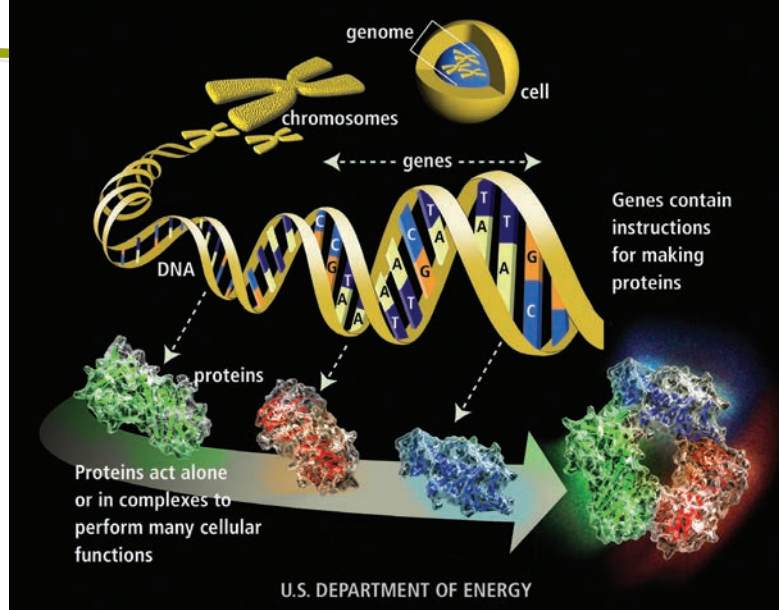
We strongly believe that North Dakota should be the location for this national laboratory due to the 42 different crops that are produced and our diverse animal agriculture and apiary industries. The 14 public crop breeding programs and sophisticated bio security level 3 greenhouse facilities make North Dakota State University an ideal location. Public breeders will be able to send leaf or seed samples to NAGC for high throughput analysis and not rely on biotech companies to run their samples at high cost and longer timeframes. The long term economic benefits to our region are numerous including high paying scientific jobs and to our research institutions and their students having the ability to collaborate with Los Alamos National Laboratories.

We urge you to use any state resources possible to locate the National Agricultural Genomics Center laboratory in our great state.

Sincerely,

AmeriFlax  
Bioscience Association of North Dakota  
North Dakota Barley Council  
North Dakota Beekeepers Association  
North Dakota Beef Commission  
North Dakota Corn Growers Association  
North Dakota Corn Utilization Council  
North Dakota Dry Edible Bean Seed Growers Association  
North Dakota Dry Pea & Lentil Council  
North Dakota Ethanol Council  
North Dakota Ethanol Producers Association  
North Dakota Farm Bureau  
North Dakota Farmers Union

North Dakota Grain Growers Association  
North Dakota Pork Council  
North Dakota Oilseed Council  
North Dakota Soybean Growers Association  
North Dakota Stockmen's Association  
North Dakota Wheat Commission  
Northern Canola Growers Association  
Northern Crops Council  
Northern Plains Potato Growers Association  
Northern Pulse Growers Association  
Northharvest Bean Growers Association  
Red River Valley Sugarbeet Growers Association  
US Durum Growers Association



March 21, 2014

Tom Lilja  
North Dakota Corn Growers Association  
1411 32nd Street South-Suite 2  
Fargo, ND 58103

Dear Tom:

With the conclusion of the third annual Innovation Week Challenge, we thought it only appropriate to say "Thank You" for your generous support of Innovation Week '14. The NDSU Research & Technology Park, in partnership with the NDSU Office of the Provost, is very appreciative of your efforts to support innovation and entrepreneurship for the students of North Dakota State University. Your continuing support and commitment to the university, the students of NDSU, and the research park is an outstanding example of university and business community cooperation.

The Innovation Week '14 activities commenced in October, 2013 with a breakfast for sponsors, community business leaders, university personnel, and interested students. Bob Upgren, founder and president of Cross Training Inc. of Bismarck ND, was the keynote speaker. His inspirational and thought provoking message was followed by a series of monthly educational sessions involving local business leaders from the Fargo-Moorhead community and interested students. The conclusion of the Innovation Week and Challenge was the awards presentation and the keynote speech of Andre Taylor, founder and CEO of Taylor Insight Worldwide LLC.

A total of 34 teams entered this year's competition with the teams participating in one of three tracks; corn, service, and products. Enclosed please find a competition booklet which lists all teams and a brief description of their project. The winning teams are listed below:

**Corn Track — Sponsored by the North Dakota Corn Growers Association**

**1<sup>st</sup> place Hum-HealthyPlus - \$5,000**

Developing a new and improved hummus by using corn, flour and lentil products.

**2<sup>nd</sup> place Healthy Cake Co. - \$1,000**

Developing a healthier version of cake by extracting resistant starch from corn distiller's dry grains with solubles.

**3<sup>rd</sup> place - 4D-Food - \$500**

Developing a solution for improving dietary needs with the use of a 3-D printer, soy lent and distilled grains.

**Service Track**

**1<sup>st</sup> place - Aqua Motion International — \$5,000**

Developing a way to prevent drowning in low to middle income areas around the world.

**2<sup>nd</sup> place Students 4 Students — \$1,000**

Developing an online option for students to sell textbooks and other items to students on their campus.

**3<sup>rd</sup> place ScoutHealth - \$500**

Developing a mobile health platform for the early assessment of cancer risk levels.

**Product Track - \$5,000**

**1<sup>st</sup> place New Cure — \$5,000**

Their project proposes to cure neuroblastoma by targeting cancer stem cells.

**2<sup>nd</sup> place Bio-Sports — \$1,000**

Developing biobased sports equipment with 80 percent renewable resources within the equipment.

**3<sup>rd</sup> place WTM Ballistics — \$500**

Developing a tool for sportsmen to practice marksmanship safely and cost effectively.

**People's Choice Award - \$1,000**

NewCure

Thank you again for your support of Innovation Week and Challenge.

Sincerely,



Chuck Hoge  
Interim Executive Director



Paul Tefft  
Consultant

(D) Has not had any conviction for any type of motor vehicle for serious traffic violations; and

(E) Has not had any conviction for a violation of State or local law relating to motor vehicle traffic control (other than a parking violation) arising in connection with any traffic accident, and has no record of an accident in which he/she was at fault.

(ii) **Restricted CDLs shall have the same renewal cycle as unrestricted CDLs, but shall be limited to the seasonal period or periods as defined by the State of licensure,** provided that the total number of calendar days in any 12-month period for which the restricted CDL is valid does not exceed 180. If a State elects to provide for more than one seasonal period, the restricted CDL is valid for commercial motor vehicle operation only during the currently approved season, and must be revalidated for each successive season. Only one seasonal period of validity may appear on the license document at a time. The good driving record must be confirmed prior to any renewal or revalidation.

(iii) **Restricted CDL holders are limited to operating Group B and C vehicles, as described in subpart F of this part.**

(iv) **Restricted CDLs shall not be issued with any endorsements on the license document. Only the limited tank vehicle and hazardous materials endorsement privileges that the restricted CDL automatically confers and are described in paragraph (f)(3)(v) of this section are permitted.**

(v) **Restricted CDL holders may not drive vehicles carrying any placardable quantities of hazardous materials, except for diesel fuel in quantities of 3,785 liters (1,000 gallons) or less; liquid fertilizers (i.e., plant nutrients) in vehicles or implements of husbandry in total quantities of 11,355 liters (3,000 gallons) or less; and solid fertilizers (i.e., solid plant nutrients) that are not transported with any organic substance.**

(vi) **Restricted CDL holders may not hold an unrestricted CDL at the same time**

(vii) **Restricted CDL holders may not operate a commercial motor vehicle beyond 241 kilometers (150 miles) from the place of business or the farm currently being served.**

NDCC Chapter 39-06.2 (Commercial Driver's Licenses) can be found at: [www.legis.nd.gov/cencode/t39c06-2.pdf?20140513153437](http://www.legis.nd.gov/cencode/t39c06-2.pdf?20140513153437)

49 CFR part 383.3 (Applicability) can be found at: [www.gpo.gov/fdsys/pkg/CFR-2013-title49-vol5/pdf/CFR-2013-title49-vol5-sec383-3.pdf](http://www.gpo.gov/fdsys/pkg/CFR-2013-title49-vol5/pdf/CFR-2013-title49-vol5-sec383-3.pdf)

**YIELDTRAC**

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Contact your nearest Titan Machinery Store to learn more about front-folding YIELDTRAC Models 24R-22 and 24R-30 – both come standard with tracks to optimize corn planting in all conditions.

## ■ NEW! NDSU PEST MANAGEMENT APP

We are excited to announce that the new NDSU Plant Sciences Pest Management App is now available for growers to download at both Google Play and Apple Store!

The NDSU Pest Management App is a tool that combines select information from the North Dakota State University Weed, Disease Management and Insect Management Guides. Information is grouped by crop and pest and providing control options through a selection process. Once a user selects a control card, there is a drop down that allows a user to select additional information for further review.

To download NDSU Pest Management App for smartphones and tablets, please visit your Apple and Google Play stores. Simply type in NDSU Pest Management in the search bar and click enter. The NDSU Pest Management App will appear for download.

Note: The initial download will take some time to download to your device. This is so all the information is on your device and wireless connection is not necessary to access information. In the future, when you connect to wireless and tap into the application, updates will automatically occur.

For more information about the new NDSU Pest Management App go to <http://ndcorn.org/pest-management-app/>. Questions or comments can be sent to [ndsu.pest.management@ndsu.edu](mailto:ndsu.pest.management@ndsu.edu).

# Available for FREE Download

## NDSU Pest Management App



The weed and pesticide guides are now available as a mobile app for ease of use in the field! Once downloaded all the information is on your device and wireless connection will not be necessary to access information. When you connect to wireless and tap into the application, updates will automatically occur.

The NDSU Pest Management App is proudly sponsored by:



## WHY YOUR SEED PROVIDER SHOULD BE A FARMER FIRST



**FIRST** *in the* **FIELD**

The roots of every good seed partner go deeper than simply providing seed. It requires a commitment to the success of growers and the latest technologies to develop top genetics with the greatest potential for high yields. But perhaps the

most valuable aspects are what come from working with a seed company that's more than just that. When its owners are in the same fields every day just like you, tilling, planting and harvesting. When they're farmers first.

Thunder Seed is one of those companies and is a collaboration of three families that have been farming for generations. The company offers high quality corn, corn silage and soybean seed and has been serving growers in Minnesota, North Dakota, South Dakota and western Canada for nearly 20 years.

Their seed is some of the highest yielding because they know the challenges that come with each day and each growing season, from soil to pests and diseases to weather. But they're not just spending time in the fields, they're working year round with world class seed technology companies to develop varieties specifically for your fields.

Thunder Seed breeds its seed under adverse soil conditions in challenging environments to ensure growers have the best varieties capable of adapting to stressful conditions. Its cold vigor germination testing renders the highest plant populations, while specially selected varieties stand up to shattering. Thunder Seed also develops its corn seeds with excellent resistance to drought and diseases. And with a nearly 57 percent increase in corn seed sales this year it's clear growers are taking note.

Thunder Seed also spends years working to create seeds that can handle it all and deliver consistently high yields. And they prove it in their fields first before ever releasing them. So you know you're getting seeds that have been tried and tested ten times over.

A farmer first company like Thunder Seed also values and

respects fellow growers, regardless of the size of their operation. They understand that farming means hard work, long days and sacrifices. And to get you through it, they're committed to being there when you need them, whether its agronomic advice or help with selecting seeds.

So next time you need seed look below the surface; look for a farmer. Look for Thunder Seed.

### ABOUT THUNDER SEED

Thunder Seed sells through a network of distributors and dealers in the United States and Canada. Its mission is to provide customers with the highest quality seed, exceptional service and unlimited yield potential through attention to agronomic detail that is backed by years of trust, experience and integrity. For more information visit [www.thunderseeds.com](http://www.thunderseeds.com), or contact the company at 1-888-6Thunder (888-684-8633) or [info@thunderseeds.com](mailto:info@thunderseeds.com).

## GRANT GIVEN TO NDSU FOR PRECISION PLANTER



Chad Deplazes, Joel Ransom and Grant Mehring pose in front of the new four row precision corn planter. Wet fields had delayed planting in some locations, though at least one site in each zone had been planted by May 17.

**The new Almaco precision corn plot planter uses GPS for setting up plot borders. The vacuum system ensures equal spacing between seeds and the seed drop monitoring system helps to detect problems during the planting process. The planter was purchased for NDSU's hybrid testing program.**

## NEW REPORT SHOWS RENEWABLE FUELS SUPPORT 852,000 JOBS AND \$46 BILLION IN WAGES FOR AMERICA'S WORKERS

The Fuels America coalition today released an economic impact study by John Dunham & Associates showing the far-reaching benefits of renewable fuels for America's workers and the U.S. economy.

Renewable fuels now represent nearly 10 percent of America's fuel supply and have helped reduce U.S. reliance on foreign oil to the lowest level in years. The analysis takes into account the entire supply chain for renewable fuels and quantifies the impact to the U.S. economy, including:

- Driving \$184.5 billion of economic output
- Supporting 852,056 jobs and \$46.2 billion in wages
- Generating \$14.5 billion in tax revenue each year

The full analysis is publicly available on a website that makes national, statewide and congressional district-wide results easily accessible.

the RENEWABLE  
FUEL STANDARD  
is CREATING  
DRAMATIC  
ECONOMIC,  
ENVIRONMENTAL  
BENEFITS

The report tells the story of an innovative, advanced renewable fuels and biofuels industry that is producing growing benefits for America's economy. "The data is in: the Renewable Fuel Standard (RFS) is driving billions of dollars of investment by the biofuel sector to bring clean, low carbon renewable fuels to market," the footprint analysis concludes. "This investment creates a

ripple effect as supplier firms and employees re-spend throughout the economy."

Embraced by both Democrats and Republicans and signed into law by President Bush – but bitterly opposed by the oil industry – the RFS calls for the use of American-grown renewable fuels in our transportation fuel supply. The oil industry is urging the U.S. EPA and/or Congress to repeal or weaken the RFS so that renewable fuels do not further reduce oil industry market share.

Fuels America stands with the thousands of farm families, workers, small business owners, environmental advocates, veterans and military families who submitted comments to the U.S. EPA urging the agency to protect the Renewable Fuel Standard and support the development of clean, homegrown American fuels.

**North Dakota Congressional District 1** is no exception.

  
**\$2.5B**  
Economic  
Output

  
**8,912**  
Jobs

  
**\$580.2M**  
Wages

The renewable fuel sector, including conventional and cellulosic ethanol, biodiesel, and advanced biofuels and their suppliers generates **\$2.5B** of total economic output annually in **North Dakota District 1**. The sector supports **8,912** jobs and generates **\$580.2M** in wages annually. The economic activity started by the renewable fuel sector creates a ripple effect as supplier firms and employees re-spend throughout the economy, creating output and jobs in industries and locations that can be far removed from the starting point.

### ABOUT FUELS AMERICA

Fuels America is a coalition of organizations committed to protecting America's Renewable Fuel Standard and promoting the benefits of all types of renewable fuel already growing in America. Fuels America is founded on a simple core principle: Renewable fuel is good for the U.S. economy, for our nation's energy security and for the environment. Visit us at [www.fuelsamerica.org](http://www.fuelsamerica.org).

## AG CAB LAB

The Ag Cab Lab will be featured in the Ag Building at this year's Red River Valley Fair in West Fargo, N.D. on July 8-13, 2014. The Ag Cab Lab is a Case IH tractor cab that is used to engage and inform fair-goers as a hands-on learning center. Inside the cab, the user experiences driving a tractor to disk or plant a field, or they can drive the tractor just for fun in the racing game mode. The Ag Cab provides an opportunity to experience how the farmer operates the equipment in the field through a virtual simulator software program. The driver is able to start the engine with a key, control the steering wheel, throttle forward, and operate two hydraulic systems on the tractor.

The Ag Cab Lab is used to expose consumers to agriculture and facilitate conversations that promote agricultural literacy for people of all ages. Another important goal is to expose young people to the diverse and exciting career opportunities in the field of agriculture.

The Ag Cab Lab is being developed by the Great Plains STEM Education Center at Valley City State University as a demonstration project allowing participants to visualize the essential role that science, technology, engineering, and mathematics has on the modern farm. For more information on the project, please visit <http://www.agcablab.org>.



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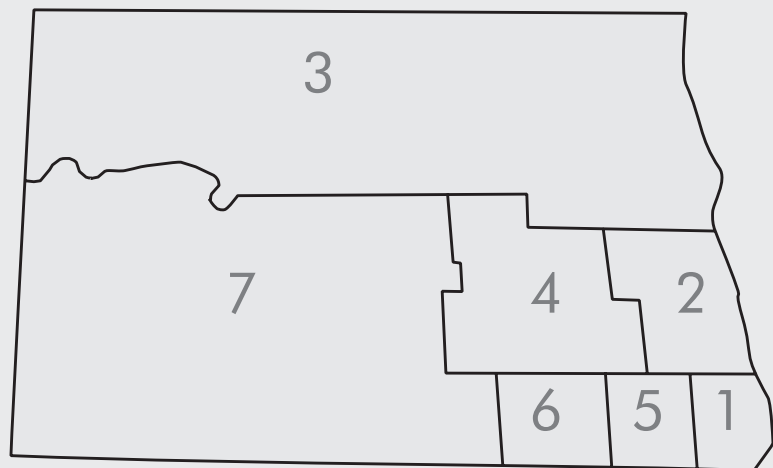
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NORTHERN CORN**