

IOWA

Pork Producer

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The official publication of the Iowa Pork Producers Association

 **IOWA PORK**
PRODUCERS ASSOCIATION

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Jeremy Stangl
JDS Farms
Pork & Grain Producer
Manilla, IA



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About the Cover

Aaron and Trish Cook and the Buchanan County Pork Producers hosted an 'Evening on a Pig Farm' in June to share the real story of pork production with local elected officials. Read the full story on page 14.

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The Iowa Pork Producer is the official publication of the Iowa Pork Producers Association and sent standard mail from Des Moines, Iowa, to Iowa pork producers by the first week of the month of issue. The publisher cannot guarantee the correctness of all information or the absence of errors and omissions, nor be liable for content of advertisements.

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Contents

- 05** Randomly Speaking – A message from the president
- 12** Letter to the Editor
- 14** Elected officials see, learn the 'real' pork story
- 16** Young engineers build first hog barn
- 18** Several hundred enjoy pork and wine at 'hot' lawn party
- 19** Iowa producers attend D.C. BBQ Battle
- 20** Study: Iowa pork industry remains important economic driver
- 22** New Seaboard Triumph Foods plant 'drawing close'
- 23** Pork exports moderate in April
- 24** 2017 World Pork Expo was one for the record books
- 26** Governor to lead all-Iowa ag mission to China
- 28** Pork Checkoff builds momentum for Secure Pork Supply Plan
- 29** Mock animal disease emergency response exercise held
- 30** Pork's six-year growth is fastest in foodservice
- 31** Repositioning pork to reach a changing audience
- 32** ISU scientists increase knowledge of phosphorus dynamics in cover crop, runoff study
- 33** ISU veterinarians work to strengthen food safety, drug efficacy in pork production
- 34** Livestock farming still appeals to FFA members
- 35** IPPA Board Feature – Dwight Mogler
- 36** 2017 Iowa Pork Foundation scholarship winners
- 38** IPPA interns get closer look at pork industry

In Every Issue

- 06** Pork Industry Briefs
- 08** Iowa Ag Literacy Foundation News
- 10** Iowa Pork Industry Center News
- 39** All Around Iowa
- 40** National Pork Board News
- 42** National Pork Producers Council News
- 44** Coalition to Support Iowa's Farmers News
- 45** Pork Recipes
- 46** Producers' Market

MISSION STATEMENT

The Iowa Pork Producers Association is an industry inclusive organization whose mission is to provide a unified voice to promote and educate for a sustainable, socially responsible, profitable and globally competitive pork industry.

It's nearly state fair time!



The Iowa Pork Producers Association will be actively involved in promoting and selling pork and the industry at the 2017 Iowa State Fair because "nothing compares" to promoting pork and the pork industry.

In addition to the ever-popular Iowa Pork Tent and chop shops, IPPA will have the farrowing display in the Animal Learning Center as well as a cooler display and other activities in the Agriculture Building and signage and displays in the Swine Barn.

IPPA always needs additional volunteers and if you haven't already committed to helping at one of the IPPA venues, give us a call. We'll be happy to place you with the other 1,000 volunteers who help each year. All volunteers receive free fair admission and a pork meal.

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Hog Slat.....	9
IBS	46
Iowa Corn	11
Kerns	46
LSG	46
Marvin Wuebker	47
Merck.....	17
New Modern Concepts	48
Pit Charger	31
Producers Livestock.....	47
Stutsman	22
Trueline Genetics.....	47
Uddertech	34
Waldo Genetics.....	46



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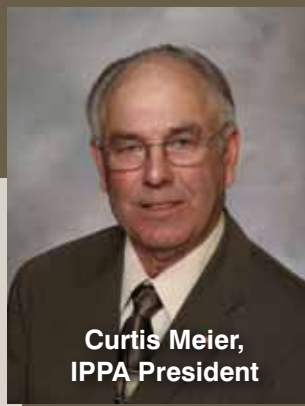
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**Curtis Meier,
IPPA President**

Randomly Speaking – A message from the president

Dear fellow producers!

Thanks for giving me the opportunity to serve as your president this year.

Hopefully, many of you had the opportunity to take in some of the events at the World Pork Expo. What a great time to see what is new, or to take in an educational seminar or just to meet old friends and eat, drink and socialize.

At the Capitol this year, we played a role in the passing of the Nuisance Protection Bill. For the producer doing things right and new producers needing protection from burdensome lawsuits, it will be beneficial.

In March, Ron Birkenholz, IPPA communications director, contacted me to see if our farm would host a British Broadcasting Company film crew. What did our farm have that they would be interested in? With high food costs, they wanted to see a diversified family farming operation and Ron knew we had a farrow-to-finish hog operation, confinement cattle feeding and corn and soybeans. I was really hesitant to commit our farm. Could this be a terrorist group trying to introduce foot and mouth into Iowa? After doing some research, I consented to let them film our operation. I was drilled and drilled setting after setting from 9 a.m. to 4:30 p.m. on the day of their visit. I was repeatedly asked if our food is safe, how we use antibiotics, do we use growth promotants, and are we trying to put British farmers out of business. I was happy to tell my story. After Brexit, will this become a market? Will our production methods meet their approval? Time will tell.

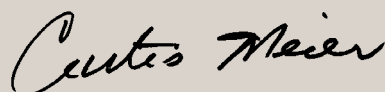
After the change of leadership in Iowa, Gov. Reynolds will lead a trade mission to China to help Ambassador Branstad build a stronger relationship with the Chinese. IPPA representatives will be part of the delegation. China has a population of nearly 1.4 billion people. They love Iowa-U.S. pork. China was the 2nd largest market in 2016 for Iowa Pork with \$159 million in sales of pork products and variety pork. The relationship with China has its challenges, but with Ambassador Branstad in place, I feel we will overcome these challenges.

I personally would like to thank all of you who donate your time to serve on a committee. With IPPA being a grassroots organization, the association depends on the committee structure to obtain our stated goals in the IPPA Mission Statement:

The Iowa Pork Producers Association is an industry-inclusive organization whose mission is to provide a unified voice to promote and educate for a sustainable, socially responsible, profitable and globally competitive pork industry.

I also thank the 30-plus Pork Act delegates who were elected on Committee Day to serve the industry. The 2018 National Pork Forum will take place in early March in Kansas City, Mo.

Sincerely yours,

A handwritten signature in black ink that reads "Curtis Meier". The script is fluid and cursive.

Curtis D. Meier
President

Pork Industry Briefs



IOWA PORK
PRODUCERS ASSOCIATION

IPPA holds Iowa Speedway promotions



The pork chop toss, the bacon toss and the pork roulette wheel kept producer volunteers and Iowa Pork Producers Association staff busy at the Iowa Speedway June 23 and 24.

It was IPPA's first of two promotions at the Newton

track this summer and several hundred race fans stopped by each day to test their skills and their pork production knowledge. People consistently stopped by the IPPA tent to view the model hog barn, watch a PowerPoint presentation on pork production and to spin the roulette wheel. Participants must answer a question from specific categories on the wheel to earn a small prize.

IPPA worked in partnership with the Washington County Pork Producers, which grilled and sold pork burgers and pork chops at the speedway both days.

First-timer captures speedway BBQ contest

The Iowa Barbecue Society held its second Runnin' Wide Open Backyard BBQ contest for pork at the Iowa Speedway in Newton on June 24 and a first-time contestant was named grand champion.

Tony Stravers of Norwalk won the pork rib contest, placed 4th in the pork loin division and was named the overall grand champion. It was the first time he



The rib and grand prize winners.

had entered a grilling competition.

Dave Trent of Carroll captured the pork loin division.

The entries were judged on appearance, taste and tenderness by certified judges.



The pork loin winners.

The Iowa Pork Producers Association donated the pork ribs and chops, as well as Pork. Be inspired aprons and pork coupons to the 13 grill teams competing in the contest.

The IBS distributed \$2,000 in cash

and prizes for the top entries in each category, with a \$500 top prize. Each team also received two tickets to the NASCAR Xfinity Series auto race.

Iowa native to become new USMEF president/CEO



Dan Halstrom

The U.S. Meat Export Federation will have a new president and CEO later this year.

USMEF has announced that Dan Halstrom, USMEF senior vice president for marketing, will become president on Sept. 1 and add the title of CEO on Dec. 1. The news came on May 24 at USMEF's spring conference in Arlington, Va.

The Iowa native will succeed longtime USMEF President/CEO Philip Seng, who will remain with the organization as CEO emeritus through July 2018. Seng joined USMEF in 1982 as Asia director.

Halstrom joined USMEF as senior vice president for marketing in 2010, overseeing promotional activities for U.S. red meat managed through the organization's 18 international offices. He was previously vice president for international sales with JBS S.A., where he managed global beef and pork sales.

From 1990 through 1999, Halstrom directed international pork sales for Swift/ConAgra Foods, Inc. A native of northwest Iowa and a graduate of the University of Iowa, Halstrom currently resides in Fort Collins, Colo.

N.C. State optimal breeding weight study participants wanted

Mark Knauer of North Carolina State University is looking for producers who would be willing to participate in a study he's conducting to refine optimal breeding weights.

More research is needed on gilt weight at breeding, he says. Compared to lighter weight females, gilts mated at heavier weights tend to eat more feed, have greater feed maintenance requirements and have decreased piglet survival rates.

If you're interested in collaborating on the study, contact Knauer at mtknauer@ncsu.edu. He's an Iowa State University alum with a 2006 master of science degree in animal breeding and genetics.

IPPA, Tama County maintain Florida connection

The Tama County Pork Producers and the Iowa Pork Producers Association continue to support efforts in Florida to promote pork and educate consumers about pork production.

Through IPPA's Co-op Program, Tama County producers and the Florida FFA Association worked together at two major consumer events earlier this year. The 12-day Florida State Fair in February drew an estimated 400,000 and the Florida Strawberry Festival in early March attracted a crowd of 650,000 for the eleven-day event.

Funding provided by IPPA was used in support of a large-scale effort to educate Floridians about the swine industry. The effort included major promotions at the state fair and the festival. Between the two events, more than 20,000 grilled pork samples were served and pork promotional coupons were distributed. An estimated 40,000 students and others visited the Ag Ventures and swine exhibit.

OMS training offered at World Pork Expo

More than 60 pig farmers and allied industry members took advantage of a full-range of Operation Main Street training courses June 6-8 at the World Pork Expo in Des Moines.

As the Pork Checkoff's OMS program continues to evolve to support the industry's highest priorities, many of the training courses focused on helping speakers who want to address higher-level decision makers, including dietitians and grocer associations.

Refresher training courses were also offered for speakers wanting the latest information on responsible antibiotic use messages and how to deal with news media.



Iowa Agriculture Literacy Foundation



Teaching swine production to high school students for career opportunities

Fetal pigs are still a standard in many high school biology dissection labs. The pig as a mammal has many similarities in anatomy to humans. The fetal pigs used for dissection are a by-product of the pork food industry. Those that aren't used for dissection will be used for fertilizer production or discarded so dissection offers a good alternative. This dissection can offer a hands-on, investigatory activity for students. It engages students in observational and kinesthetic learning of the three-dimensional body. Dissection can show the interconnections between organs and organ systems.

These dissections can offer a jumping off point to teach much more about pork production and the swine industry. Biology classes and agriculture classes can look at general animal husbandry practices, breeding and gestation, farrowing and many other topics.

High school social studies classes can look at the government's role in monitoring and regulating animal production, processing, distribution, and even consumption of food. Government classes can identify inspection processes associated with food safety regulations. They also can evaluate evidence for differing points of view on topics like animal welfare practices. They might look at economic factors that keep food costs low. They might look at governmental regulation of food labeling related to marketing and how it affects consumer choices.

Ultimately, students in grades 9-12 are getting closer and closer to choosing a career and can start to specialize their interests. They can understand what job

options in the swine industry might allow them to work in pork production, in pork consumption, or in regulation. They can work in research to increase productivity that can impact the development of the global economy or in dozens of other jobs to ensure the supply of meat to meet consumer demand.



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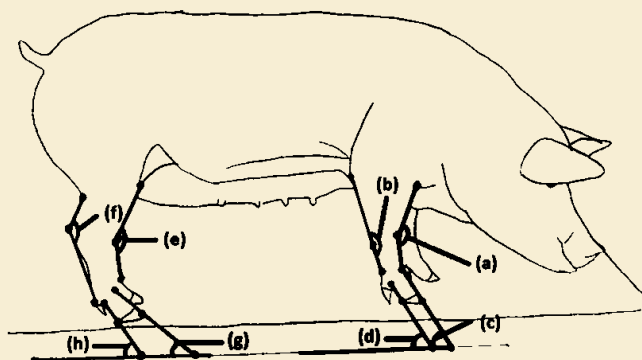
ISU research focuses on objective measurement of leg and feet soundness

Feet and leg problems are one of the leading reasons for culling in the U.S. today. While subjective scoring is widely used to select for proper structure in replacement gilts, the training and experience of the individuals performing the scoring can vary a great deal. This inconsistency ultimately leads to variation in the scoring of the same animal, not only between scorers, but within scores assigned by each individual scorer themselves.

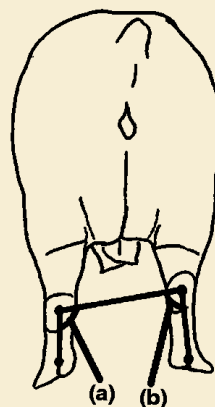
The development and implementation of a repeatable, objective method of scoring that could be used by any person, regardless of level of experience and expertise, could alleviate some of the variation seen between

and amongst observers. Iowa State University Animal Science professor Dr. Ken Stalder designed a project aimed to do just that.

Grad students Joe Stock, Jared Mumm, China Suprakorn and many former students have played integral roles in providing research on existing feet and leg systems, data collection and determining appropriate approaches to objective measurement. Animal Science professor Anna Johnson, Veterinary Diagnostic and Production Animal Medicine faculty members Dr. Suzanne Millman and Dr. Locke Karriker, and Agriculture and Biosystems Engineering Professor



Rendering identifying the angles of the joints analyzed from a profile still image.



Rendering identifying the rear stance position

Dr. Steve Hoff all have provided critical input contributing to the project's success throughout the entire project.

The first objective was to develop an objective method to measure common feet and leg joint angles in swine. This method was derived from numerous sources of information on proper feet and leg characteristics and scoring systems. It was simplified to joints that historically have been of high importance to the subjective structural scoring of replacement females.

In initial trials with the developed method, the team explored various deviations of the method to identify strengths and weaknesses associated with minor changes. From those trials, the method was honed down to be a repeatable, easy-to-follow method of using still images to objectively measure joint angles for an animal at any age. While the current method is time consuming, further development hopefully will streamline this process.

Ongoing work using this defined method is attempting to further validate the values obtained using the derived method by measuring replacement gilts starting at 100 days of age and following those females through the end of their second parity. During this collection period, multiple additional records such as nutrition, weight and litter traits are being recorded and will be used for further analysis.

We hope findings from this collective study will give a better, objective background and approach to selecting replacement females in the future, regardless of the training level of the individuals making selections for feet and leg characteristics.

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Activists have been hard at work in recent months trying to disparage the pork industry with letters to the editor and other tactics designed to garner support for an agenda to harm pork producers. Iowa Citizens for Community Improvement has campaigned to get county boards of supervisors to pass resolutions calling for a moratorium on new farms and asking the Iowa Legislature to address what ICCI sees as failings of the Master Matrix scoring system used by most of the counties in Iowa.

Dr. Eugene Ver Steeg, 2006 Iowa Pork Producers Association president and a producer from Inwood, recently wrote the following letter to the editor and submitted it to the *Des Moines Register* and 10 other newspapers in counties that approved the ICCI resolution:

Moratorium on livestock expansion would be a serious mistake

I spent over six years as a Commissioner on the Environmental Protection Commission. Members of Iowa Citizens for Community Improvement spoke at most of our meetings in favor of cleaner water, and their solution was a moratorium on livestock expansion. I admire their goal of cleaner water—something we all want—but I disagree with their solution.

The solution to cleaner water is healthier soil. Healthy soil has great water holding ability and retains nutrients. We get healthier soil by using organic fertilizer produced from livestock, using less tillage and planting cover crops. I would like to quote NRCS Soil Health Specialist Doug Petersen, "There is no agronomic or economic reason for tillage to be justifiable anymore. It destroys everything that restores soil function."

We have not done any whole field tillage on our farm in Lyon County for more than ten years. Our farm is not only more environmentally friendly but more profitable today because of that. My suggestion for my fellow farmers is to start your efforts toward cleaner water with reduced tillage and more cover crops instead of waiting for funding for edge-of-field practices. There is no time like the present.

According to Dr. Dan Andersen (ISU Engineer) crop yields and subsequent demand for manure is increasing faster than current livestock expansion rates. Iowa needs more livestock, not a moratorium. Sioux County, for example, is the number one county in the state for livestock with more than one million pigs, eight million chickens and 400,000 head of cattle. Sioux County consistently ranks among the top five counties in Iowa in health outcomes, lowest unemployment, youngest average age of farmers and greatest population growth of all rural counties. If we want to give young people a chance to farm, see our schools, churches and main streets grow while helping our soil become healthier, we need livestock.

Gene Ver Steeg
Inwood

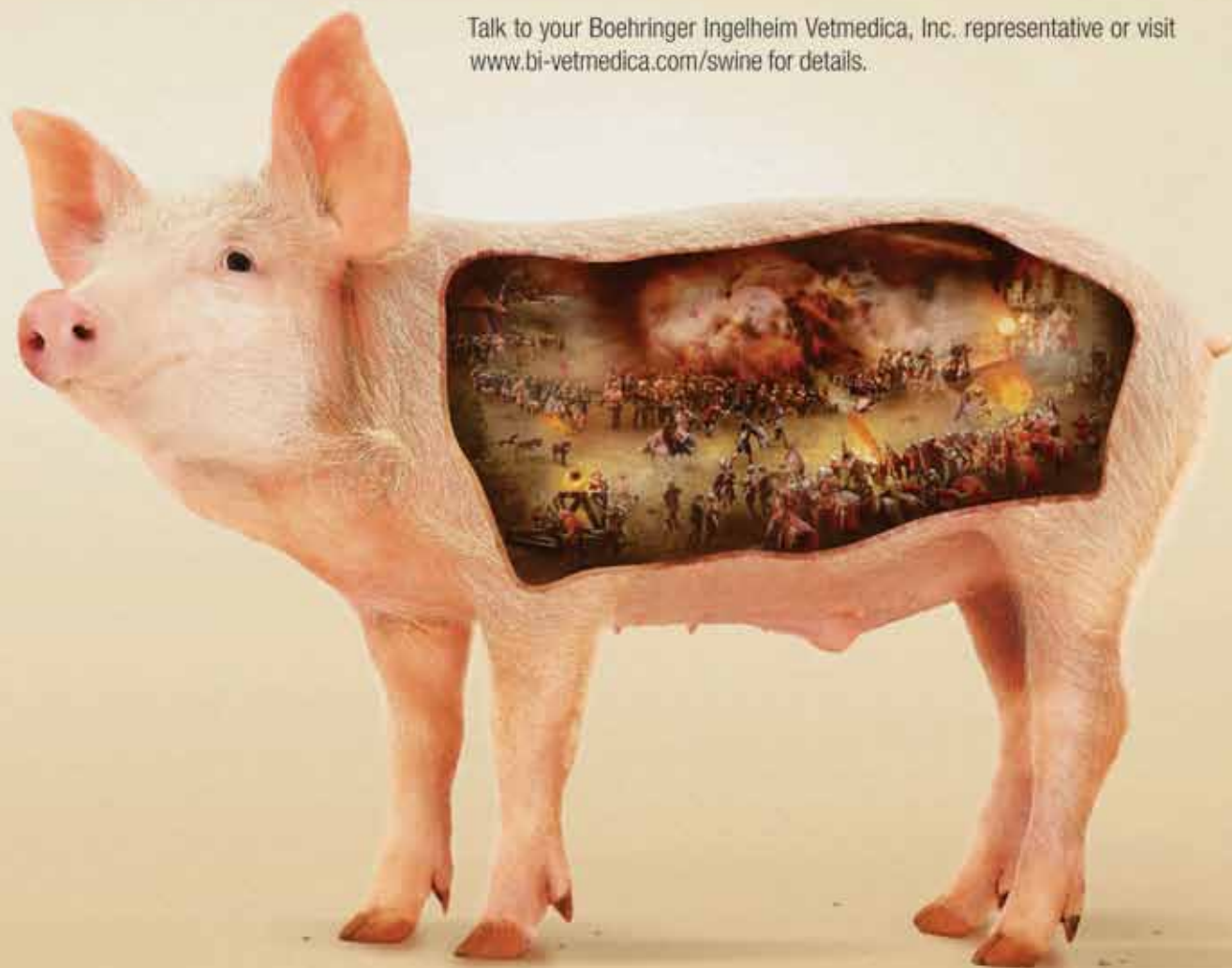
We applaud Dr. Ver Steeg for taking the opportunity to address the water quality issue and dispel the falsehoods and untruths perpetuated by activists.

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Aaron Cook addresses guests on the family farm

An Evening on A PIG FARM

Elected officials see, learn the ‘real’ pork story

A handful of state politicians and area county officials were among the nearly 70 people who attended an invitation-only event on June 22 that took guests to several Buchanan County hog farms.

Aaron and Trish Cook of Winthrop, past Iowa Pork Producers Association President Al Wulfekuhle of Quasqueton, the Buchanan County Pork Producers Association and IPPA hosted “An Evening on a Pig Farm” open house to give public officials an inside look at modern pork production and the hardworking families who responsibly raise pigs.

“The idea behind tonight’s event came after what I consider a rather harsh wakeup call for all of us pig farming families,” Wulfekuhle told the special guests. “As a lot of you are aware, our county supervisors signed a petition asking our state legislators to put a moratorium on hog buildings in Iowa. This blind-sided us.”

The “Evening on a Pig Farm” was developed to allow officials who make the laws and decisions to actually see what modern pork production is all about, see the different aspects of production, ask questions and meet the people who raise pigs.

The event started at the Cook family farm. Aaron Cook talked about his family and the pork production part of the business. The family produced a short video of its pork staff that explained the different phases of production, from farrow to finish.

The guests were then bused to a nearby Cook hog site that featured a barn full of five-week old pigs and a new barn that is under construction. From there, the group was transported to another site to see a newly constructed, unpopulated, 2,400-head finishing barn that is owned by two young brothers who are just starting their pork careers by raising pigs for the Cook family. After enjoying a pork dinner grilled and served by the county producers inside the new barn, Wulfekuhle held an open discussion with the crowd and the hosts answered questions about the barn and production and conducted a tour of the facility.

The public officials who attended the event applauded the Cooks for

opening their farm to them to let them see and learn for themselves what modern pork production is actually about.

"I've heard a lot of negative things about these confinements and I was anxious to see how this actually works when it's done right," said Delaware County first-term Supervisor Pete Buschmann of Greeley. "I've got a lot to learn as a new supervisor and this is one of the main things."

A couple of the public figures felt strongly that the pork industry needs to have more events such as "An Evening on a Pig Farm."

"I think it's an excellent idea," said Rep. Lee Hein of Monticello. "More events like this should be held around the state to inform supervisors and local officials what's really out here in the country, what [farmers] are trying to do and that some of the things they're listening to when they're

making decisions maybe aren't the truth."

Sen. Craig Johnson of Independence agreed with Hein, saying he felt the event should be duplicated in all Iowa counties. "Producers are doing a great job, but some of the terminology that is used and what the public hears causes misunderstandings about how animals are being raised. If more of the public saw what we saw tonight, I think it would be a whole different story," he said.

At night's end, the guests left with a better understanding of the families and practices behind today's pork production and the hosts were satisfied that their efforts were appreciated.

"I think it went really well. I thought we had the people here that we were really targeting, wanting to talk to and explain things to," Aaron Cook said. "I thought they had some really good questions and I'm very happy with how it went. I think it made a difference."



Invited elected officials observe pigs in a finishing barn on one of the Cook's sites.



Landon (left) and Andy Slattery

Young engineers build first hog barn

Landon and Andy Slattery of Winthrop were proud to show off their shiny, new 2,400-head swine finishing site to area county supervisors and state politicians as part of the “Evening on a Pig Farm” event on June 22.

The newly constructed site served as the final stop of the evening tour of hog sites in Buchanan County to educate the public officials about hog production.

The Slatterys will raise hogs on contract for Aaron and Trish Cook of Winthrop and they are anxious to get started.

“I’m absolutely looking forward to it,” said Landon. “It’s been a great opportunity for my brother and I.

We worked with a local contractor and Aaron Cook, who have been very helpful and answered a lot of our questions. Both being young and new to this sort of thing, they have both been great to work with.”

Farming and pork production is nothing new for the brothers as both grew up on a nearby family farm and still help their parents, Jerry and Annette, on the farm. They raised hogs through 4-H growing up and showed pigs at the Buchanan County Fair.

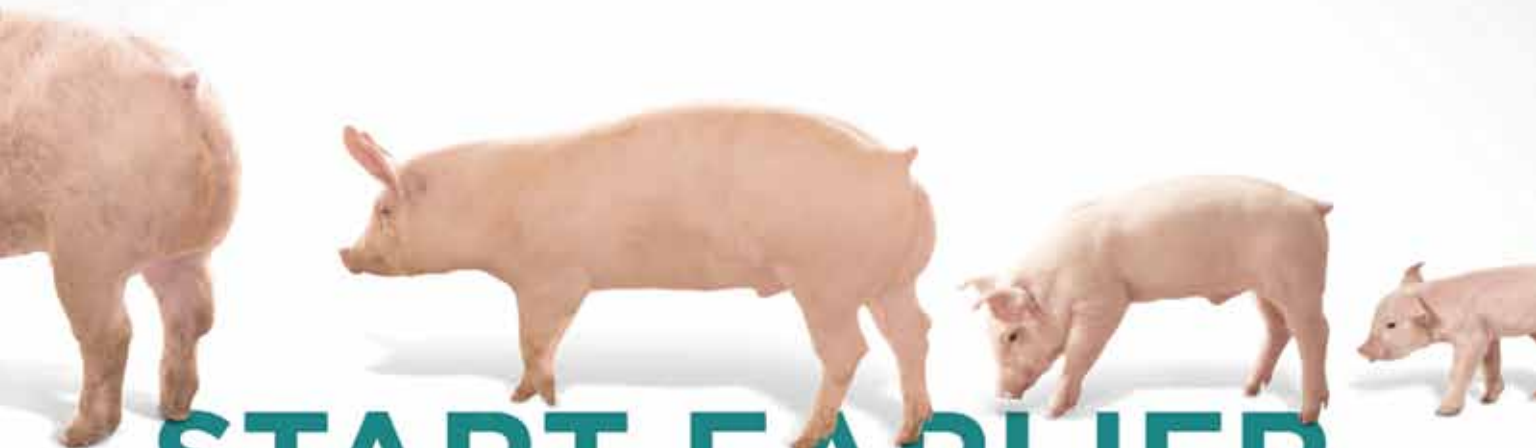
The brothers received their first pigs in early July, but plan to keep their day jobs for the time being. Landon and Andy both work full-time as design

and manufacturing engineers for area companies and will be raising hogs and continuing to help their father farm on a part-time basis to start.

Andy went to Iowa State University and earned a degree in ag business. Landon attended UNI and has a degree in technology management.

The brothers plan to become certified in both PQA Plus® and TQA®.

Landon and Andy had no opposition to their new barn during the application and construction phases and tapped into the free resources of the Coalition to Support Iowa’s Farmers to ensure they did everything properly.



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Lawn Party

Several hundred enjoy pork and wine at 'hot' lawn party

Several hundred wine enthusiasts braved 90-degree temperatures for the Iowa Pork Lawn Party at the Jasper Winery in Des Moines on June 4.

The Iowa Pork Producers Association sponsored the event as part of the annual eight-day Des Moines Winefest.

Jethro's BBQ in Des Moines won IPPA's "Ooey, Goey, Saucy & Savory Pork Challenge" at the Meredith Test Kitchens in Des Moines this spring with its roasted pork shoulder Porchetta Hero Sliders and earned the right to attend the event to provide the sliders for guests.

Nick's in Des Moines, the winner of IPPA's 2016 Best Breaded Pork Tenderloin contest, also attended the

lawn party and handed out free tenderloin sliders to the guests.

About 20 IPPA staff and producers participated in the Restaurant and Foodservice Committee promotion to stroll the grounds with trays of the pork items to give to the guests and visit about pork and pork production.

IPPA offered a pork grilling basket door prize, pork recipes and other information during the event.

The Iowa Pork Lawn Party attracts several local food vendors, wineries and breweries that share samples of their products. Live music serves as the backdrop for the festivities.



Iowa producers attend *D.C. BBQ Battle*



The Iowa Pork Producers Association made the most of its latest trip to Washington, D.C., and the 25th Annual Giant National Capital Barbecue Battle.

IPPA's 12-member 2017 Pork Leadership Academy class, Iowa Pork Youth Ambassadors McKenna Brinning and Dylan Riedemann and IPPA Producer Outreach and Federal Policy Director Stephanie Carlson spent Friday, June 23, on Capitol Hill.

The leadership group and Carlson visited with each member of Iowa's congressional delegation about the need for an adequate FMD vaccine bank, research, trade and a viable workforce. From the congressional offices, they traveled to the National Pork Producers Council for a tour and orientation.

The academy members were joined by the youth ambassadors for the weekend BBQ Battle. Over the two-day event, 900 pounds of pork loin were grilled and approximately 14,000 samples were served, all while

doing their best to educate attendees about pork. The key messages: 145 degrees, safe, nutritious and delicious!

The group wrapped up its trip on Monday with discussions about the FMD vaccine bank with USDA's Animal and Plant Health Inspection Service office, trade with USDA's Foreign Agricultural Service staff and the new Farm Bill with Senate Ag Committee staff.

"From advocating on the Hill to the grill, these are great representatives of the Iowa pork industry in Washington, D.C.," Carlson said. "If we were competing [at the BBQ Battle], this team would've won hands down."

The BBQ Battle has been a regular promotional event for IPPA for several years. More than 200,000 people attend the two-day event that features free food samples, top food vendors from across the country, cooking demonstrations with celebrity chefs and cookbook authors, and high stakes BBQ competitions throughout the weekend. A wide array of entertainment and attractions round out the event.

Study: Iowa pork industry remains important economic driver

Iowa's pork industry continues to be a key contributor to the rural and state economies, according to a study commissioned by the Iowa Pork Producers Association.

The economic contribution study was conducted in late 2016 by Decision Innovation Solutions of Urbandale, which produced the results in accordance with methods prescribed and endorsed by the Minnesota IMPLAN Group. The research results are based on IMPLAN modeling data from 2015.

Economic Contributions

The industry contributed \$36.7 billion in sales in 2015, with \$13.1 billion, or 35.6 percent, from swine production; \$18.3 billion, or 49.7 percent, from hog slaughtering; and \$5.4 billion, or 14.7 percent, from pork processing.

The sales total included \$12.2 billion in added value beyond the \$24.5 billion cost of inputs. There were 141,813 jobs associated with the pork industry, or about the total combined populations of Ames, Ankeny and Coralville in 2015, with nearly 52 percent in production alone. One in nearly 12 working Iowans has a job tied to the pork industry.

The industry produced \$8.3 billion in labor income, contributed \$756.4 million in state and local taxes and \$1.56 billion in federal taxes in 2015.

"Iowa has long been the nation's leader in swine production because of the proximity to abundant supplies of corn and soybeans, the primary components in swine feed," said IPPA President Curtis Meier of Clarinda. "We're proud of our ranking and are pleased that the industry is such a profound economic contributor to our local communities. The study shows what pork does for rural Iowa."

Select County Analysis

In addition to analyzing state level hog production and related economic activity, county level results for a cross section of 25 Iowa counties were estimated. These counties included some of the top producing counties (Hardin, Plymouth and Washington), as well as some of the lesser producing ones (Iowa, Marshall and Union).

The average hog inventory per county is 206,623 head, while the average number of hog farms per county is 63. This results in an average inventory per Iowa hog farm of 3,265 head.

The 25 focus counties selected for further analysis have inventories that account for 31 percent of Iowa hogs. Additionally, these counties represent 28 percent of the farms in Iowa, with an average inventory per hog farm of 3,671 head, 406 more than the statewide average head per farm.

Reliance on Feedstuffs

Iowa's pork industry relies heavily on the ability of corn and soybean farmers to produce abundant supplies to feed pigs and the study looked at how many acres of Iowa cropland is dedicated to feeding pigs in Iowa.

Hogs raised in Iowa consume grain raised on more than 5.7 million acres: 3.3 million acres of corn and Dried Distillers Grain with Solubles; and 2.4 million acres of soybeans. Overall, pigs eat 24.7 percent of the acres planted to corn and soybeans in the state: 24.5 percent of the corn acres and 25 percent of the acres planted to soybeans.

Local Economic Contributions

Decision Innovation Solutions also looked at what the construction and operations effects of a new, 2,400-head wean-to-finish hog barn in Iowa would be on the local and state economy. Employment, labor income, value added and sales are all common measures of economic activity. An Iowa hog farm relies on roughly 30 percent of its needs from local businesses.

Construction of a new hog farm requires purchases of steel, concrete and equipment. Once completed, the farm purchases feed, veterinary care and other professional services, and several more inputs to produce hogs for sale. One new barn would generate 14.6 jobs, provide more than \$869,000 in labor income; \$1.1 million in value added and \$2.3 million in sales, according to the study.



IOWA PORK
PRODUCERS ASSOCIATION

2017 ECONOMIC CONTRIBUTIONS OF THE IOWA PORK INDUSTRY

STATE OF IOWA



JOBS:
141,813



VALUE-ADDED:
\$12.2 BILLION



STATE/LOCAL TAXES:
\$756.4 MILLION



LABOR INCOME:
\$8.3 BILLION



SALES:
\$36.7 BILLION



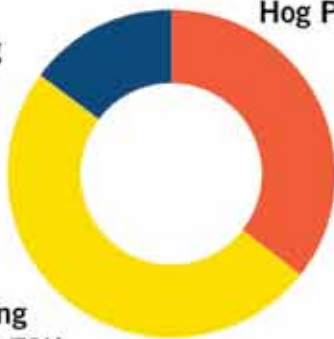
FEDERAL TAXES:
\$1.56 BILLION

Sales: The broadest measure of economic activity – often referred to as “output”; **Employment (Jobs):** A measure of job positions without regard to whether they are full-time equivalents; **Value-Added:** Sales (output) minus the cost of inputs; **Taxes:** Taxes paid at the federal, state and local level.

STATE OF IOWA SALES SUMMARY (\$36.7B)

Hog
Processing
\$5.4
(14.7%)

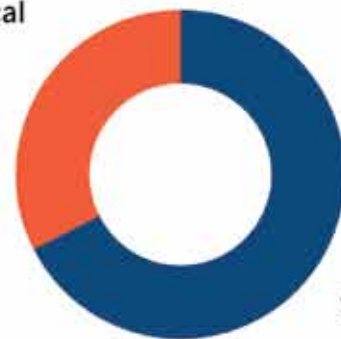
Hog
Slaughtering
\$18.3 (49.7%)



Hog Production
\$13.1
(35.6%)

STATE OF IOWA - TAX SUMMARY (\$M)

State/Local
Taxes
\$756.4



Federal
Taxes
\$1,555.4

*Meat Processed from Carcasses (Hog Processing); This IMPLAN sector includes all red meat processing. We utilized slaughter and processing location data from the Iowa Economic Development Authority to estimate the total portion devoted to hog processing.

NUMBER OF HOG FARMS:
6,266



Source: USDA 2012 Census of Agriculture

**PIGS RAISED IN
IOWA CONSUME
24.5% OF ALL
CORN ACRES AND
25% OF ALL
SOYBEAN ACRES.**



Source: Estimates are based on five-year corn (175 bu./acre) and soybean (51 bu./acre) averages. From wean to 270 lbs., a pig will eat 12 bu. of corn and 2.5 bu. of soybeans with two groups raised per year.

New Seaboard Triumph Foods plant 'drawing close'

Officials from Seaboard Foods and Triumph Foods updated reporters covering the World Pork Expo in Des Moines on June 8 on the progress of the new Seaboard Triumph Foods plant in Sioux City.

Construction of the pork processing facility in the Bridgeport West Industrial Park is slated to be complete by late summer and should open in time to alleviate some of the harvest capacity challenges the state has experienced.

"We're drawing close [to opening]," said Seaboard Triumph Foods COO Mark Porter. "We are planning to begin operations no later than early September."

The plant will initially employ 1,100 workers, 900 hourly and 200 salaried employees, but the plant won't open with a full staff.

"We want to get to 1,100 as rapidly as possible," Porter said.

Officials acknowledged that employment is a potential challenge with Sioux City's low unemployment rate. Seaboard Triumph Foods is working on an innovative staffing strategy to recruit and retain employees from all around the Siouxland and surrounding regions.

The plant expects to add a second shift next summer, bringing total employment to 2,100. The addition

of the second shift will allow processing of up to approximately six million hogs annually.

Two-thirds of the pigs will come from Seaboard and Triumph, with the other third from area pork producers. The company is currently working to source pigs from producers in the three-state area.

"We've been actively soliciting contracts for animals for the plant over the course of the last nine months," said Seaboard President/CEO Terry Holton. "We have a nice share of them lined up. We don't have all of them yet, but we're happy with the progress we've made."

A full line of fresh pork products for international, retail, food service and further processing markets will be produced. Seaboard Foods will market and sell the pork produced by the plant.

Triumph Foods is owned exclusively by pork producers and Seaboard Foods is a wholly-owned subsidiary of Seaboard Corporation. Triumph Foods and Seaboard Foods are integrated food companies, with farm operations and pork processing, controlling the entire process every step of the way from before the farm to the plate. If the two companies were considered as a single combined entity, they would comprise the second largest hog producer, a top five U.S. pork processor, and a leading exporter of U.S. pork.

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Pork exports moderate in April

U.S. pork exports slowed moderately in April from the red-hot pace established in March, but were still significantly higher year-over-year, according to statistics released by USDA and compiled by the U.S. Meat Export Federation on June 5.

Pork exports followed a record-breaking March with a solid April performance, reaching 203,091 mt - up 8 percent from a year ago and the largest April volume on record. Export value was up 11 percent to \$517.5 million. For January through April, pork exports increased 15 percent in volume (830,738 mt) and 19 percent in value (\$2.1 billion).

Pork exports as a percentage of U.S. production continued to run well ahead of last year, as April exports accounted for 28.4 percent of total pork production and 23.5 percent for muscle cuts only - up from 26.2 percent and 22.1 percent, respectively. Through April, exports accounted for 27.5 percent of total pork production and 22.8 for muscle cuts (up from 24.4% and 20.5% last year). Export value per head slaughtered also trended much higher than a year ago - averaging \$55.39 for April (up 11%) and \$53.12 through April (up 16%).

Mexico leads April pork export growth as demand from China softens

Mexico continued to solidify its position as the largest volume destination for U.S. pork as April exports were up 10 percent from a year ago in volume (58,828 mt) and exceeded \$100 million in value for the 12th consecutive month (\$104.7 million, up 12%). Through April, exports to Mexico were 24 percent higher than a year ago in volume (265,090 mt) and up 34 percent in value (\$476.6 million).

April pork exports to leading value market Japan were steady with last year's volume at 32,552 mt and 2 percent higher in value at \$129.5 million. Through April, exports to Japan remained 5 percent higher than a year ago in volume (134,133 mt) and were up 10 percent in value (\$540.8 million). Japanese import data indicate that Canada continues to aggressively pursue Japan's high-value chilled market.



As China's domestic pork production rebounds, U.S. pork muscle cut exports to China/Hong Kong have trended below year-ago levels each month in 2017 (although exports in April were the largest this year). Exports of pork variety meat, however, have continued to outpace year-ago levels and helped offset much of the decline in muscle cut exports. For combined pork and pork variety meat exports, April volume was down 7 percent to 48,457 mt, but value was steady with last year at \$96.7 million.

Other markets that posted impressive April results included:

- South Korea, where pork exports continued their upward trajectory in April, climbing 21 percent above last year in volume (14,585 mt) and 32 percent higher in value (\$41 million).
- Australia's imports of U.S. pork were 11 percent higher than a year ago in volume (5,485 mt) and 17 percent higher in value (\$16 million).
- Colombia, which led a very strong month for pork exports to Central and South America. April exports to Colombia increased 84 percent from a year ago in volume (5,085 mt) and more than doubled in value (\$12.2 million, up 118%).

NOTES:

- *Export statistics refer to both muscle cuts and variety meat, unless otherwise noted.*
- *One metric ton (mt) = 2,204.622 pounds.*

2017 World Pork Expo was one for the record books



Seeking out new ideas, information and innovations, more than 20,000 pork producers and ag professionals from throughout the world attended the 29th World Pork Expo, June 7-9, in Des Moines. Presented by the National Pork Producers Council, the 2017 Expo hosted more than 1,000 international guests from nearly 40 countries.

Highlights included the world's largest pork-specific trade show, a wide variety of educational seminars and another barn-busting Junior National Swine Show. Iowa's summer weather provided a pleasant backdrop for the allied industry hospitality tents that lined the streets of the Iowa State Fairgrounds, as well as a relaxing evening for MusicFest. As always, there was plenty of mouthwatering pork served, including more than 10,000 free lunches from the Big Grill—prepared by the

Tama County Pork Producers Association—throughout the three days.

“World Pork Expo gives producers the opportunity to see and touch the newest products and technologies for their pork businesses,” says NPPC President Ken Maschhoff, an Illinois pork producer. “It’s a place for producers to interact with each other and share ideas. It also gives employees at all levels a chance to learn, deepen their connection to pork production and have some fun.”

Innovation takes center stage

Expo presents the world's largest pork-specific trade show, and this year's event included more than 450 commercial exhibits from companies throughout the world. Another 53 allied industry hospitality tents offered companies

and producers the opportunity to discuss products, services and technologies that can help produce high-quality pork efficiently, responsibly and successfully.

Steady traffic flow within the trade show left exhibitors with a positive impression of this year's Expo. “What's new? What makes your product different? and What's on the horizon?” were common inquiries from producers walking the 320,000 square feet of exhibit space.

Junior National sets another record

To accommodate its ever-expanding presence, the World Pork Expo Junior National began on Monday, June 5, with events filling out the week. Hosted by the National Junior Swine Association and Team Purebred, the Junior National set another record for the number

of participants, with 1,050 youth exhibitors from 32 states. Considered one of the nation's premiere youth swine shows, the Junior National combines educational activities such as a Skill-a-thon and Youth PQA Plus® certification, with swine judging, live-hog competitions and showmanship.

The youth show filled the swine and sheep barns with 2,500 hogs exhibited this year, up slightly from 2016's record setting 2,351 hogs. Juniors also were eligible to join other swine breeders to exhibit their pigs in the open show on Friday, June 9, with more than 1,000 crossbred and purebred boars and gilts. Breeding stock was presented for sale on Saturday morning, including Berkshire, Chester White, Duroc, Hampshire, Landrace, Poland China, Spotted, Yorkshire and crossbred swine.

Education and networking round out the events

Educational and business seminars filled out the schedule for both Wednesday, June 7, and Thursday, June 8. In all, pork producers and their employees could select from 18 free seminars, where they could interact with a range of pork experts and get answers to their questions.

This year's business seminars addressed topics from consumer impressions of pork production to data analysis, piglet care and nutrition management. Meanwhile, the PORK Academy seminars provided insights into pork quality research, sow housing tools and third-party audits. Of particular note was an in-depth discussion of the Secure Pork Supply Plan and strategies to maintain business continuity should the United States ever encounter a market-limiting foreign animal disease. The producer program's focus is to be proactive and prepared.

Market outlook and weather presentations, as well as discussions on export and international trade issues, completed the educational events and provided producers with information to use for long-term planning.

"World Pork Expo is always surprising. This year's event had more exhibit space, more hogs, more hospitality tents and

more new products and technology," Maschhoff said. "It's a dynamic show and a great place to learn what's going on politically, globally and among fellow producers that could impact your business. It's truly an impressive event."

Looking ahead, 2018 will mark World Pork Expo's 30th Anniversary. NPPC has selected June 6-8 as the dates for next year's show at the Iowa State Fairgrounds in Des Moines.

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Governor leading **ALL-IOWA AG MISSION** to China

Gov. Kim Reynolds is leading a mission to China this month that for the first time will include all of Iowa's agriculture commodity groups.

The mission is taking place July 19-28 and includes representatives from the Iowa Pork Producers Association, Iowa Farm Bureau and Iowa's corn, soy, beef, egg, poultry, dairy and turkey industries.

"There is no better time than now to market and pitch our products in China," said Reynolds. "Our relationship with the country is strong, and their growing middle class means increasing purchasing power and Iowa stands to gain significantly as a result."

The goal of the mission is to build relationships, understanding and trust with the hope of opening new possibilities for Iowa's agricultural products. The groups will be meeting with government officials and industry partners, as well as newly confirmed U.S. Ambassador to China Terry Branstad in Beijing, whose insight will be important as the groups navigate solutions to some of the current issues.

"I want to thank the individuals who are stepping up to lead this trade mission on behalf of Iowans," said Lt. Gov. Adam Gregg. "Every time we open new markets, it means more career opportunities for families in every corner of this state."

For some of Iowa's commodities, China is a developed market. For others, it's a new opportunity to bring down barriers to products. Examples include:

Pork

- Over the last decade, U.S. pork exports to China/Hong Kong have surged from \$271 million in sales and 169,000 metric tons in 2007 to more than \$1 billion in sales and 545,000 metric tons in 2016.

Soy

- China is by far the largest soybean importer projected at 83 million metric tons, or a little more than 3 billion bushels (U.S. Soybean Export Council)
- Total aquafeed use in China was around 36 million metric tons with the soy product use for aquafeed estimated at around 8.8 million metric tons in 2015,

which equals more than 408.2 million bushels of soybeans.

Beef

- A Chinese ban on importation of U.S. beef has been in place for 13 years. The recent announcement to lift the ban provides opportunity for cattle farmers as 13 percent of our beef production is exported.

Corn

- China imported more than 50 percent of the exportable supply of U.S. distiller's dried grains with solubles (DDGS), or 6.3 metric tons valued at nearly \$1.6 billion in 2015.

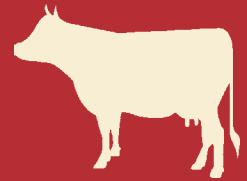
Dairy

- In 2016, China was the 4th largest market for U.S. dairy products, with imports of \$384 million and even greater potential.

Turkey

- Iowa is 5th in U.S. turkey processing and 8th in turkey production. Iowa farmers and processors benefit by reopening access for turkey products into this market.

The trip is being funded by the participating agricultural organizations.



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THURSDAY AUG. 17

SHOWS • 8 A.M.

Berkshire followed by
Chester, Poland
and Spot

SALES • 3 P.M.

Berkshire, Chester,
Poland and Spot

FRIDAY AUG. 18

SHOWS • 8 A.M.

Duroc followed
by Hampshire
and Yorkshire

SALES • 2 P.M.

Hampshire, Duroc
and Yorkshire

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Yorkshire • Matt Rohrig 641-344-8869

Duroc • Tom Welk 563-264-3423

Berkshire • Al Conover 515-491-8078

Hampshire • Ron Iverson 641-990-0875

Chester White • Randy Schmidt 319-668-2546

Poland China • Frank Albertson 641-751-8315

*If interested in Landrace or Poland China swine, please contact the
Iowa Purebred Swine Council for a Breeder Directory.*



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Pork Checkoff builds momentum for Secure Pork Supply Plan

Plan will minimize business disruption from foreign animal diseases



The National Pork Board, with major support from the U.S. Department of Agriculture, is creating a Secure Pork Supply plan to help America's pork producers respond quickly and successfully to a major threat, such as a foreign animal disease (FAD). The plan will enhance communication and coordination of all pork chain segments to help producers keep their farms operating and all related business activities functioning.

"We're thankful that our country has not experienced a disease such as foot-and-mouth (FMD) since 1929," said Terry O'Neel, National Pork Board president from Friend, Neb.. "However, if we get the news that FMD, African swine fever or another foreign animal disease has arrived, the Secure Pork Supply plan will pay big dividends by getting pork production back to normal much faster."

An Iowa State University study estimates potential revenue losses to U.S. pork and beef industries from an FMD outbreak would run \$12.8 billion per year or \$128 billion over a 10-year period. Related losses to corn and soybean markets over a decade would be \$44 billion and \$24.9 billion, respectively.

The Secure Pork Supply plan will provide procedures that pork producers, processors and federal/state agencies agree are feasible should an FAD strike, according to veterinarian Patrick Webb, director of swine health programs for the Pork Checkoff. This would include the safe movement of animals from farms in an FAD control area to harvest channels or to other production sites as long as the pigs have no evidence of disease.

"The Secure Pork Supply plan will provide business continuity to producers who enroll prior to an outbreak, which will allow them to be back in business faster than those who do not participate," Webb said.



The basics of the plan that will help producers achieve this include implementing sound biosecurity, using premises identification tags, keeping detailed production records and maintaining all necessary health papers and certificates.

"As a pork producer, I want to be ready when it's time to sign up as a participant in the Secure Pork Supply program," O'Neel said. "In the meantime, let's all prepare by ramping up our farm's biosecurity measures and other steps so we'll be ready to go."

The Secure Pork Supply plan is the result of ongoing collaboration between USDA, the National Pork Board, the National Pork Producers Council, the American Association of Swine Veterinarians and academia, as well as other state and federal partners.

"The National Pork Board and our producer leaders believe that investing in the Secure Pork Supply Plan now will help the entire industry in the face of a future FAD outbreak," said Bill Even, National Pork Board CEO. "Pork producers are known for being innovative leaders, and through this work, the Pork Checkoff is taking a leadership role in being prepared."

Mock animal disease emergency response exercise held

More than 60 federal, state and local agency officials and academic and industry professionals met on June 15 to participate in a mock animal disease emergency response exercise hosted by the Iowa Department of Agriculture and Land Stewardship with the support of Iowa Homeland Security and Emergency Management.

“Unfortunately, Iowa saw firsthand how devastating an animal health emergency can be with the Highly Pathogenic Avian Influenza outbreak that severely impacted our poultry industry in 2015,” said Iowa Secretary of Agriculture Bill Northey. “The department has made it a priority to take the lessons learned from that disaster and help us be better prepared should we have to deal with another event in the future. This exercise was another step in that process and I greatly appreciate all the stakeholders from across the state that participated.”

The tabletop exercise was designed to help test response capabilities and review the department’s updated Foot-and-Mouth Disease Response Plan that was completed this spring. Foot and Mouth Disease is a highly contagious viral disease of livestock that affects cattle, swine, sheep, goats and other cloven-hoofed ruminants. This disease is not transmissible to humans and there are no food safety concerns with the disease.

This all-day exercise allowed leaders in industry, academia and government to talk through the plan and process of preventing, detecting and responding to various scenarios involving an outbreak response.

“We greatly appreciate the leadership by the department to develop this plan and continue the process by holding this exercise so we can continue to learn and improve,” said Pat McGonegle, CEO of the Iowa Pork Producers Association, who participated in the exercise.

A Foot and Mouth Disease outbreak has the potential to be devastating to the Iowa and national economy. Iowa is the number one pork producing state in the nation and 4th in beef production. The milk goat inventory is 3rd in the nation and the state is 9th in all sheep and lamb inventory. Our state also has more

than 200,000 dairy cows and is in the top 15 nationally for milk production. Livestock feed is the top customer of both corn and soybeans, so grain farmers also would be significantly impacted if the disease is found.

The Center for Food Safety and Public Health at Iowa State University coordinated the development of the updated response plan. The exercise was organized/conducted by SES, Inc. out of Merriam, Kansas, which provided facilitators and evaluators to document discussion; resolve questions; and advise on plans, policies and procedures.



Pork's six-year growth is fastest in foodservice

Pork has been the fastest-growing protein in foodservice since 2011, according to Technomic, Inc.'s, 2017 Volumetric Assessment of Pork in Foodservice.

Over the past six years, pork use has grown on a pound basis by more than double that of chicken, which is the next fastest growing protein. Pork use increased by 1.145 billion pounds, while chicken use grew by 515 million pounds.

On a percentage basis, pork grew three times the rate of turkey, which is the next fastest growing protein, at 3.6 percent versus 1.2 percent. During this same time period, pork represents 61 percent of all protein growth in the foodservice industry (1.145 billion pounds out of total growth of 1.867 billion pounds).

The pork category continues to increase in foodservice, with a growth rate of 0.8 percent from 2015 to 2017. Totalling 5.9 billion pounds, the growth reflects a volume increase of 114 million pounds over the 2013 to 2015 period.

Processed pork continues to be a strong performer in foodservice, making up the majority of total volume. The five largest categories driving pork category growth are bacon, processed ham, breakfast sausage, ribs and pepperoni. Collectively, the categories represent 66 percent of the total volume. The love of bacon shows no signs of slowing and represents the largest share of volume, at 20 percent, or 1.2 billion pounds, growing 4 percent since 2015.

"We are pleased to see continued growth of pork use in foodservice," said National Pork Board President Jan Archer of Goldsboro, N.C. "The volumetric study shows that pork continues to be a strong performer in the foodservice industry, underscoring pork's popularity specifically in value-added pork products such as ham, bacon and sausage."

As consumers demand more interesting flavor profiles and global cuisine, there has been an increase in authentic fresh pork applications. Since 2015, carnitas showed a compound annual growth rate of 5 percent and porchetta had a 15 percent increase. Notable growth in fresh pork also was seen in belly, chops and ground pork.

"Fresh pork presents a huge opportunity in foodservice by offering a range of cuts and applications to deliver a variety of authentic and innovative dishes. Also, fresh pork's value has never been better," Archer said. "Fresh pork allows the foodservice industry to deliver what consumers want while turning strong profits."

Over the past two years, limited-service and full-service restaurants represented the largest user groups of pork in foodservice, accounting for 67 percent of all pork volume. The growth in limited-service restaurants has been mainly driven by the all-day breakfast additions by major chains.



Repositioning pork to reach a changing audience



With the consumer market for pork and other protein sources changing rapidly, the Pork Checkoff is putting the finishing touches on a plan to capitalize on those changes by repositioning pork marketing, Terry O'Neel, president of the National Pork Board, told an audience at World Pork Expo on June 8.

"The Pork Checkoff has embarked on a journey to determine how best to market pork today," O'Neel, a pork producer from Friend, Neb., said. "The direction may be drastically different than we've seen in the last quarter century."

The big changes that require a new marketing plan, National Pork Board CEO Bill Even said, are driven by what he called "the three M's":

- **Millennials:** America's largest generation has increasing buying power and makes buying decisions differently than its predecessor generations.
- **Mobile:** The speed of communication and access to information fuels demand, requiring constant attention to new means of communication.
- **Multicultural:** Currently 36 percent of the U.S. population, the newest arrivals to the U.S. and their families will make up 50 percent of the population by 2050.

Even said that responding to those drivers in a way that assures pork demand remains strong prompted the National Pork Board to spend the past year conducting extensive research to define the critical needs of pork marketing. The

research has included in-depth discussions with producers, packers, processors, retailers, foodservice and consumers.

The research was designed "to find the marketing sweet spot at the intersection of market trends such as population growth and growing market diversity; market opportunity that capitalizes on pork's flavor, convenience and value, and marketing tools the Checkoff can use to reach younger and more diverse audiences," said Jarrod Sutton, the National Pork Board's vice president of domestic marketing.

Sutton views the changing marketplace as an opportunity to inspire all segments of the pork chain to find new ways to succeed. The signs are positive, Sutton said. Demand for protein remains strong. Red meat and

poultry production is projected to grow over the next three years -- by 6.6 percent for beef, by 9 percent for poultry and by 12.3 percent for pork, starting with projections that 2017 will be a record year for pork production

Sutton said the new direction of Pork Checkoff-funded marketing will build on the three pillars of pork's brand identity—quality, trust and value—and "will provide a unique value to the pork supply chain to position itself as the industry leader in knowledge of the consumer's requirements and preferences, insights into category growth, and future-proof solutions for stakeholders to grow and thrive in a rapidly changing world."

O'Neel said he expects that the new marketing strategy will be deployed early in 2018.

An advertisement for PitCharger, a manure management system. The background is a large puzzle. One puzzle piece shows a green tractor with a white tank. Another piece shows several pink piglets. A large puzzle piece in the center contains the text "Control Odor, Crusting, Flies! Liquefy Solids!". In the bottom left, a puzzle piece features the "PitCharger" logo, which consists of a green square and the brand name. In the bottom right, another puzzle piece contains the text "Good Manure Management Includes PitCharger | 888-231-1002 PitCharger.com".

A PIECE OF THE PUZZLE

**Control Odor, Crusting, Flies!
Liquefy Solids!**

PitCharger®

Good Manure Management | 888-231-1002
Includes PitCharger | PitCharger.com



The Hermann farm site near Ames allowed Mallarino's team to observe the effects of cover crops on phosphorus in the runoff study.

ISU scientists increase knowledge of phosphorus dynamics in cover crop, runoff study

Cover crops are a recognized nutrient management practice outlined in the Iowa Nutrient Reduction Strategy. They have proven their effectiveness in reducing the amount of nitrogen lost to subsurface drainage, and soil loss from erosion. However, the impact of cover crops in reducing phosphorus loss has not been sufficiently studied.

A multidisciplinary team of Iowa State University scientists led by Antonio Mallarino, agronomy professor, has completed two years of a long-term field study to better understand the impacts of cover crops on nutrient loss with surface runoff.

"The conventional wisdom is since cover crops reduce soil loss from fields, they should also reduce sediment-bound phosphorus loss. But there is little information in the literature from the north-central region of the United States," Mallarino said. "Our study is the first field-scale study on the effects of cover crops on phosphorus loss with runoff in Iowa, and we are studying nitrogen loss also."

When the Iowa Nutrient Reduction Strategy was drafted, cover crop impacts on reducing phosphorus loss were based on a few estimates from rainfall simulation studies, he said.

"We need Iowa field-scale based information," Mallarino said. "This way we will be able to more accurately estimate the impact of cover crops on soil, phosphorus and nitrogen loss with surface runoff."

Mallarino's research team developed the on-going study at Iowa State's Hermann Farm near Ames. The study is

conducted on 12 areas ranging from one to three acres in a field that tested very high in soil phosphorus and is managed with a corn and soybean rotation.

The research areas evaluate tillage and no tillage with and without a winter cereal rye cover crop seeded each year. Runoff from the test areas is analyzed for total solids and several forms of phosphorus and nitrogen. Their first two years of data yielded some results that Mallarino expected, but others in his field might find unexpected.

"It is confirmed that cover crops reduce soil loss with tillage or no-till but mainly with tillage. Results also show that with tillage, a cover crop reduces phosphorus loss. But it is not so clear that with no-tillage management a cover crop reduces phosphorus loss," Mallarino said. "With no-tillage, there seems to be a small reduction in particulate phosphorus loss, but an increase in dissolved phosphorus loss."

Dissolved phosphorus is responsible for algae blooms and has a visible impact on aquatic ecosystems.

However, Mallarino cautions against drawing conclusions from only two years of data. Environmental factors play a role in nutrient dynamics with surface runoff, and during the two years of the study, there were few major rain events and very low runoff.

"We can't make a strong conclusion from these two years of data. There needs to additional data collection from this site and better science-based projecting so we can encourage the addition of cover crops for the right reasons," Mallarino said.

ISU veterinarians work to strengthen food safety, drug efficacy in pork production



Locke Karriker

A recently completed series of studies by Iowa State University veterinarians on some of the most commonly prescribed drugs used in pork production will help to improve food safety and allow producers to make better use of medications.

The series of four separate studies focused on pharmacokinetics, or how drugs move through and exit an organism. Locke Karriker, a professor and interim chair of Veterinary Diagnostic and Production Animal Medicine and Gustafson Professor of Teaching Excellence, led the studies, which tested the pharmacokinetics of antibiotics in swine.

Working out the factors that influence pharmacokinetics will help veterinarians and producers treat herds as efficiently and effectively as possible, while also ensuring that pigs are free of medications when marketed, Karriker said.

“In order to treat a disease we have to get the drug to pass through the correct tissues to get to the right part of the animal at a high enough concentration to be effective, then get back out of the animal for food safety purposes,” he said.

Each study tracked how medications used in swine production – penicillin and amoxicillin, for example – moved through healthy pigs at various dosages. The research team used chemistry and mathematical models to calculate how long each drug took to leave a pig’s system entirely.

The data created for the study can inform veterinarians and pork producers about the timing and dosage with which the drugs may be used to improve pig health while maintaining pork safety. Karriker said the studies found minute traces of the drugs remained in the pigs longer than previous models predicted, though at levels below the legal thresholds allowed by the U.S. Food and Drug Administration. The studies also found traces of the drugs remained near the injection sites, even after the drugs became undetectable in other tissues, such as kidney or urine samples.

The studies point to ways producers can make better use of drugs by delivering doses large enough to treat various diseases, but no larger.

“We want to be as judicious as possible in the administration of these drugs,” Karriker said. “Ideally, you use as little of the drug as necessary while still being efficacious.”

Karriker said the next step in the research is to perform similar trials, but in environments that more closely resemble on-farm conditions. The current studies looked at a limited number of healthy pigs in a controlled setting, a far cry from a real-life hog operation. He said scaling up the experiments could yield further insights into better hog operations.

For instance, the completed experiments indicated that the presence of a virus may influence how a pig metabolizes drugs, which then affect pharmacokinetics. So further research may help farmers leverage their efforts to stop viruses in a way that improves the performance of other, seemingly unconnected medications.

“A well-considered vaccination program for viruses makes your antimicrobial program more effective,” he said.

Livestock farming still appeals to FFA members

The Coalition to Support Iowa's Farmers has once again surveyed Iowa FFA members and found that farm kids continue to have a strong interest in livestock farming. The survey was taken at this spring's Iowa FFA State Leadership Conference in Ames.

This was the 12th year CSIF has conducted the survey and responses were collected from 395 FFA members.

Of the students who reported their desire to farm, 89 percent indicated they intend to raise livestock. The 2017 results also revealed that 54 percent of students who do not have a desire to farm would be most likely to work in an ag-business related field.

"I grew up around livestock and want to continue to be a part of a great industry that has taught me so many important life skills," said Ashley Kahler, a sophomore at Ballard High School and a member of the school's FFA chapter.

After attending a four-year college, Kahler hopes to pursue her passion for raising hogs and says she would enjoy caring for a small cattle herd as well. "I consider myself lucky to have been involved in raising livestock on my family's farm and I hope to share those same experiences and values with my own children someday."

Students like Kahler have the opportunity to pursue on-farm careers thanks to the 122,764 jobs livestock farming is responsible for in Iowa.

"The future of Iowa is still on livestock farms," said Brian Waddingham, CSIF executive director. "Despite the current downturn in the farm economy, there

are many opportunities in livestock agriculture for the next generation, including traditional species such as hogs, cattle, dairy, poultry and turkey, as well as emerging enterprises such as fish and shrimp."

Other findings from the survey include:

- Ninety-seven percent of respondents have a positive outlook on the future of Iowa agriculture.
- Seventy-five percent of respondents intend to live and work in Iowa, a six percent increase from the 2016 results.
- Forty-four percent of respondents believe steep start-up costs are the primary obstacle for young people pursuing a career in farming, a 4 percent decrease from 2015 and 2016.

"The Coalition is here to help beginning farmers navigate the



challenges of raising livestock including interpreting rules and regulations, providing siting assistance and enhancing neighbor relations," said Waddingham. "In providing these services, we aim to alleviate some of the risks young families who aspire to make a living through livestock encounter."

CSIF is a non-profit organization that offers free assistance to livestock farmers who want help interpreting rules and regulations, guidance on good site locations for barns, counsel on enhancing neighbor relations and tips on how to protect the environment. For more information, call (800) 932-2436 or visit www.supportfarmers.com.

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Board Feature – Dwight Mogler

Dwight Mogler is one Iowa Pork Producers Association director who believes interacting and hearing the viewpoints of other board members, as well as learning from their lifetime experiences, is providing him with a broader industry perspective.

“It’s difficult to quantify, but the value of interacting with a diverse group is undoubtedly a great personal benefit,” Mogler said. “The board of directors is comprised of genuine, practical Iowa pork producers and advocates. I’ve only been on the board for 1½ years, but I have already developed a high level of respect for my fellow board members.”

The IPPA District 1 director is a 3rd generation partner in his family’s diversified crop and livestock farm near Alvord in Lyon County that also includes his father, brothers and children.

Mogler Farms/Pig Hill has 2,500 acres of row-crop production, 3,000-head beef feedlot capacity, a country grain elevator with 1.8 million-bushel capacity and a pork production enterprise that markets 150,000 hogs annually. The vast majority of the pigs raised are sourced from a 4,400-head sow farm that was built over the past two years.

The Mogler family also sources 20,000 pigs a year as a shareholder in a 5,500-head sow farm in South Dakota that is managed by the Pipestone Systems. The family owns and manages 4,800-head of nursery space and 5,200-head of grow-finish space. The vast majority of the pigs are raised on contract with neighboring pork producers.

Dwight accepted the request to run for the board in 2015 because of his family’s deep appreciation for the Iowa pork industry, as well as a desire to serve an organization that “tirelessly promotes and represents our interest when and where we cannot.”

“I’ve always appreciated the unselfish efforts of others who have served on the IPPA Board over the years. I’m at a stage in my life where I’d like to step up and do my part to give back to an industry that has had a profound impact on my family,” he said.



While the Moglers have raised pigs for more than 40 years and Dwight’s been an integral part of the family’s success, he doesn’t feel one person alone can further the industry and it takes a group like the IPPA Board to make a difference.

“I do feel quite strongly that the IPPA Board can leverage our collective strengths, skill sets and experiences to provide clarity to the vision and directives for our organization,” he said.

Mogler is a graduate of Iowa State University with a major in agricultural business and he became a full-time partner in the farming enterprise in 1992. He says he’s blessed to be a pork producer.

“There isn’t a better place in the world to raise a family and I can’t think of a better place in the world to produce pork,” said Dwight. “There isn’t anything that I’ve done to deserve this privilege. I just want to do my part to help continue the legacy for not only my family, but also for my many wonderful neighbors and friends throughout Iowa.”

2017 Iowa Pork Foundation scholarship winners

The Iowa Pork Producers Association is proud to announce the winners of a 2017 Iowa Pork Foundation scholarship.

IPPA awarded scholarships to 10 incoming freshmen and eight returning students this year. Nelda Christian Graduate Fellowships were awarded to one Iowa State University College of Agriculture and Life Sciences student and to one ISU College of Veterinary Medicine student.

Each incoming freshman receives a \$1,000 scholarship. Returning students receive \$1,500 and the graduate fellowships are worth \$2,500.

The scholarships are awarded to Iowans who are majoring in an agriculture field and have interest in a pork industry career. Incoming and returning undergraduate scholarship recipients must be Iowa residents who maintain a 2.5 grade point average and major in an ag-related field with an emphasis on swine production.

The incoming and returning undergraduate scholarships are awarded annually by IPPA through the Iowa Pork Foundation.

Congratulations to all of the winners!

2017 Incoming Freshman Scholarships



Caleb Bartling

Ackley
DMACC
Ag Education



Quinton Fellingner

Hopkinton
Kirkwood CC
Ag Diesel Mechanics



Maria Geisler

Cedar Falls
Iowa State University
Animal Science



Marta Grant

Preston
Iowa State University
Ag Business



Conner Hemesath

Ossian
NE Iowa CC
Ag Production/Ag Business



Amberly Jergens

Auburn
Iowa State University
Pre-Veterinary Animal
Science



Mason Meyer

Charles City
Iowa State University
Ag Studies



Rebekah Schram

Anthon
Iowa State University
Animal Science



Jacob Sterle

Roland
Iowa State University
Animal Science



Alysha Vance

Hamlin
Iowa State University
Animal Science

2017 Returning Student Scholarship Recipients



Holly Cook

Winthrop

Iowa State University
Ag Business; Undeclared Economics



Evan Gibbs

Cascade

Iowa State University
Ag Studies



Jennie Greene

Crawfordsville

Iowa State University
Animal Science



Mitchell Juhl

Hudson

Iowa State University
Ag Business



Edan Lambert

Orange City

Iowa State University
Animal Science



Macy Marek

Riverside

Iowa State University
Ag Education

2017 Nelda Christian Graduate Fellowships



Hannah Reisinger

Osceola

Graceland University
Ag Business



Rebecca VanderHeiden

Wheatland

Iowa State University
Ag Studies



Gregory Krahn

ISU College of Agriculture
and Life Sciences

Ames

Doctor of Philosophy in
Animal Science



Nicholas Lauterbach

ISU College of Veterinary
Medicine

Ames

Doctor of Veterinary Medicine

IPPA interns get closer look at pork industry

Two Iowa State University students are enhancing their college education this summer with the Iowa Pork Producers Association. Mikayla Dolch and Danielle James are serving internships with the association in preparation for successful professional careers. Dolch is helping with preparation and operation of the Iowa Pork Tent after a six-week stint as an intern in the office of Iowa Sen. Joni Ernst. James is helping with promotions, public relations/communications and seeing the inner workings of the association.

Mikayla Dolch



Legislative Intern

Mikayla comes from a diversified southwest Iowa livestock farm. Her family raises hogs, beef, corn and soybeans near Villisca, where daily tasks such as tagging and vaccinating newborn calves, planting, harvesting and fixing miles of fence ignited her passion for agriculture.

Dolch exhibited 4-H projects in elementary school and joined FFA in high school. She served as the 2015-16 Southwest State FFA vice president, exploring South Africa's agricultural sector as part of her year-long term.

The agricultural and life sciences education major is a senior at ISU and she has served as an officer and co-chair of the Homecoming Central Committee and been involved in peer mentoring, Agricultural Communicators of Tomorrow, Collegiate FFA, CALS ambassador and Sigma Alpha

Professional Sorority for Women in Agriculture.

"Life as a Cyclone has proven to be fulfilling as relationships are built, knowledge is obtained and adventures unfold," she said.

Mikayla previously completed internships with the Iowa Soybean Association and the ISU College of Agriculture and Life Sciences Communications Service and is enthused about her summer with IPPA.

Danielle James



Pork Checkoff Intern

Danielle's agriculture roots started early on with grandparents who farmed and continued to flourish throughout her youth. Although she didn't grow up on a farm, James developed a love for agriculture and swine production as a young 4-H and FFA member. She devoted countless hours to raising and showing a few pigs and lambs at county fairs, as well as the state fair. Danielle also held leadership positions within 4-H and FFA.

The Minburn native is pursuing her dream of a career in agriculture and throughout her adventure at Iowa State, she has devoted time to taking on leadership positions in campus organizations, all while continuing to excel in rigorous course work. Danielle has served as first vice president of the Sigma Alpha Professional Sorority for Women in Agriculture, an Animal Science peer mentor and education co-chair for Bacon Expo.

In addition to her studies, James has interned for the Iowa State Fair's Livestock Competitive Events and was an intern at one of AMVC's large-scale sow units. During the school year, she holds a part-time internship with Global Vet Link in Ames. All of these experiences have fueled her passion for making a positive impact in the swine industry even further.

Danielle is working toward completing her bachelor's degree in agriculture education while keeping her love for livestock within arms reach by pursuing a specialized minor in animal science with emphasis in the swine industry.

"This industry has always held a special place close to my heart and I am eager to serve as an advocate and give back to the industry that I am ever so passionate about," James said.

All Around Iowa

All Around Iowa is a summary of recent education and promotion activities conducted by county pork organizations.



Tama County



The Tama County Pork Producers and Jamie Smock of JBS grilled ribs at the 2017 World Pork Expo in Des Moines. More than 10,000 free pork lunches were served.

The world map has pins for the countries represented by attendees.



IPPA wants to recognize your promotions and educational efforts. Send us details and photos of your activities and we'll post them here. All digital photo files need to be high resolution and at least 1 mb in size! You can send information to Iowa Pork Producers Association; Attn: Ron Birkenholz; 1636 N.W. 114th Street; Clive, Iowa 50325; E-mail: rbirkenholz@iowapork.org; Phone: (800) 372-7675.

Scott County



County Pork Queen Rachel Paustian, Miss Pigtail Rachel Ehlers and SCPP Angie Ehlers did an Ag in the Classroom presentation on pork at Washington School in Davenport this spring.

Bremer County



Bremer County Pork Queen Samantha Snyder, Princess Payton Schwartz and Jr. Princess Hannah Busch spoke with 3rd graders in four schools in Bremer County this spring. They shared information about pork and specifically the impact of the pork industry in Iowa.

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News from the National Pork Board

Checkoff publishes new *PRRS Initiative Research* book

The National Pork Board's new Porcine Reproductive and Respiratory Syndrome (PRRS) virus research booklet is now available. The guide, *PRRS Initiative Research*, is the most comprehensive source of Checkoff-funded research available on the subject, spanning 20 years of results.

"Each year, the effect of PRRS is felt on pig farms across the country, and it has a \$664 million annual impact on the U.S. pork industry," said David Pyburn, DVM, senior vice president of science and technology at the National Pork Board. "The Pork Checkoff has consistently invested in swine science and PRRS research, and the result is a guide that will provide value to understanding PRRS in an effort to address its impact."

The updated and expanded 2017 edition contains Checkoff-funded PRRS research from 1997 to 2016, which can help producers, swine veterinarians and researchers learn more about how to control the costly virus. The guide has six sections:

- Immunology, virology and pathogenesis
- Vaccine development
- Epidemiology, risk factors and control strategies
- Diagnostic testing
- Surveillance and elimination strategies
- Genetic resistance

The *PRRS Initiative Research* (1997-2016) is available online. For more information on the guide, contact Lisa Becton, DVM, at LBecton@pork.org or at (515) 223-2791.

O'Neel heads slate of new officers

Terry O'Neel, a pork producer from Friend, Neb., was elected president of the National Pork Board



at the organization's June board meeting in Des Moines.

"I am proud to represent our 60,000 pig farmers and I am both honored and humbled by the confidence that the board is placing in me," O'Neel said. "From the farm, through food chain

partnerships, to the consumer's table, people care about how their food is produced. I look forward to helping to tell the story of real pig farming in the year ahead, and also to meet first hand with the leaders who deliver our product from farm to table."

O'Neel and his wife, Diane, own and operate O'Neel Farms, a farrow-to-finish pig farm that markets 12,000 pigs annually. In addition to pigs, O'Neel Farms also grows corn and soybeans on 700 acres.

Serving with O'Neel on the executive officer team of the Pork Checkoff is vice president Steve Rommereim, a pork producer from Alcester, S.D., and, as treasurer, Brett Kaysen, a pig farmer from Nunn, Colo. Jan Archer, a pork producer from Goldsboro, N.C., will serve as immediate past president. The four executive officers will serve one-year terms in their positions that became effective at the close of the June board meeting.

"As an industry, we stand ready to face our challenges and to celebrate our successes," O'Neel said. "And we have so much going for us—from establishing our Secure Pork Supply plan to redesigning how we market our product. The Pork Checkoff is energized and we stand ready to roll up our sleeves and get to work in support of research, pork promotion and consumer and producer education."

The National Pork Board is comprised of 15 farmer-directors representing America's pig farmers.

OMS expands outreach to nurse practitioners

Operation Main Street speakers are now taking the pork industry's story to yet another key influencer group—medical professionals.

Illinois OMS speaker Megan Schnur, DVM, with Carthage Veterinary Services, presented to members of the Society of Advanced Practice Nursing in Springfield, Ill., in March.

While preparing for the presentation, Megan asked the nurses what they wanted to know about pig farming. Their top topics included:

- How antibiotics and hormones used in pig farming affect humans who eat pork.
- Whether humane animal care is a priority on today's pig farms.

Megan's presentation received top scores on the nurses' OMS evaluation forms and their comments included:

- Did not know the improvements and advancements the pork industry has made over the years.
- Pork production is much more supervised than I realized.
- It [the presentation] was wonderful.

A sure sign Megan's speech made an impact: the meeting organizer invited Megan to present to another group of nurse practitioners in Quincy, Ill.

Money can buy happiness, according to millennials

A recent survey of millennials showed 53 percent of the demographic felt that having more money would lead to more happiness. Overall, 38 percent of Americans overall felt the same way. When it came to their financial health, 35 percent of millennials felt their finances were "healthy" and 38 percent felt they

were "okay." This aligned with other demographics, where "healthy" was defined as having money left over from paycheck to paycheck, and "okay" was defined as simply getting by and covering the basics. Millennials also were confident in their financial future (51%), and 32 percent replied that saving for emergencies was their biggest financial challenge. Day-to-day bills (28%) and credit card debt (28%) were considered additional hurdles.

Spotify edging out YouTube as centennial music choice

A new music-focused report titled "Gen Z: Meet the Young Millennials" revealed several new findings about the music habits of 16-19 year olds. Though YouTube was the "most pervasive entertainment platform" for Gen Z with 94 percent monthly penetration, Spotify is edging out YouTube as its music app of choice. Spotify saw 53 percent weekly user penetration compared with YouTube's 47 percent penetration. Teens in the UK said music is worth paying for (67%) compared to all consumers (56%). The popularity of streaming music also was found to change the relationship of music to the listener. Among centennials, 74 percent listen to single tracks or playlists instead of full albums.



The National Pork Board has responsibility for Checkoff-funded research, promotion and consumer information projects and for communicating with pork producers and the public. Through a legislative national Pork Checkoff, pork producers invest \$0.40 for each \$100 value of hogs sold. The Pork Checkoff funds national and state programs in advertising, consumer information, retail and foodservice marketing, export market promotion, production improvement, technology, swine health, pork safety and environmental management. For information on Checkoff-funded programs, pork producers can call the Pork Checkoff Service Center at (800) 456-7675 or check the Internet at www.pork.org.



News from the National Pork Producers Council

EPA proposes rule to repeal 'WOTUS'

The National Pork Producers Council hailed the June 27 announcement by the U.S. Environmental Protection Agency that it will propose a rule to rescind a controversial Clean Water Act regulation that gave the government broad jurisdiction over land and water.

The proposal will repeal the Waters of the United States (WOTUS) rule, which ostensibly was implemented to clarify EPA's authority over various waters.

Based on several U.S. Supreme Court decisions, EPA's jurisdiction had included "navigable" waters and waters with a significant hydrologic connection to navigable waters. But the WOTUS rule broadened that to include, among other water bodies, upstream waters and intermittent and ephemeral streams such as the kind farmers use for drainage and irrigation. It also covered lands adjacent to such waters.

"This is great news for America's pork producers," said NPPC President Ken Maschhoff, a pork producer from Carlyle, Ill. "The WOTUS rule was a dramatic government overreach and an unprecedented expansion of federal authority over private lands.

"It was the product of a flawed regulatory process that lacked transparency and likely would have been used by trial lawyers and environmental activists to attack farmers," Maschhoff added. "We're extremely grateful to President Trump and EPA Administrator [Scott] Pruitt for recognizing the dire consequences this ill-advised Obama-era regulation would have had on pork producers and all of American agriculture."

NPPC helped lead the agricultural community's opposition to the WOTUS rule, including producing maps showing the extent of the lands affected by the regulation. (EPA's jurisdiction in Missouri, for example, would have increased to cover 77 percent of the state under the rule.) The organization also led the legal efforts against the rule, filing suit in a U.S. District Court and presenting a brief to a U.S. Court of Appeals. The latter halted implementation of the WOTUS rule shortly after its Aug. 28, 2015, effective date.

A public comment period was to follow publishing of the proposed rule.

NPPC files comments on NAFTA talks

The National Pork Producers Council submitted comments to the Office of the U.S. Trade Representative in June on negotiating objectives regarding the modernization of the North American Free Trade Agreement (NAFTA) with Canada and Mexico.

Much of the growth in U.S. agricultural exports has occurred during the period the United States implemented new trade agreements, NPPC said in its comments. The U.S. agricultural sector, as the most efficient and competitive in the world, has benefited greatly from more open markets brought about by these agreements.

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Every \$1 billion of U.S. agricultural exports requires 8,070 American jobs throughout the economy. Agricultural exports in 2016 required over one million full-time civilian jobs. Exports to Canada and Mexico, our second and third largest foreign markets, totaled over \$38 billion in 2016, or 28 percent of our total to the world.

NPPC releases white paper detailing NAFTA benefits

Following the notification by the Trump administration that it will renegotiate the North American Free Trade Agreement (NAFTA), the National Pork Producers Council released a white paper on the benefits of the trade deal between the United States, Canada and Mexico.

The paper, which focuses on trade with Mexico, makes the case for not abandoning the 23-year-old pact and for not disrupting trade in sectors for which the agreement has worked well, including U.S. pork. Mexico is the No. 2 export market for U.S. pork and Canada is No. 4.

For all U.S. goods and services, Canada and Mexico are the top two destinations, accounting for more than one-third of total U.S. exports, adding \$80 billion to the U.S. economy and supporting more than 14 million American jobs.

NPPC urges withdrawal of 'GIPSA' Rule










Along with comments from more than 630 individuals, the National Pork Producers Council once again urged the U.S. Department of Agriculture to withdraw the "interim final rule" of the so-called Farmer Fair Practices Rules, also known as GIPSA.

In filing its comments, NPPC issued the following statement: "The Interim Final Rule will trigger a torrent of lawsuits against members of the pork industry and create uncertainty that will stifle investment and innovation without providing any identifiable benefits to consumers. In doing so, it will harm U.S. pork producers and their employees and customers, reversing decades of growth and job creation by the U.S. pork industry."

The comment period for public input on the rule ended on June 12.

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Fight for reasonable legislation		
Fight for reasonable regulation		
Inform and educate legislators		
Provide producers direct access to lawmakers		
Proactive issues management with media		
Secure and guide industry research funding		
Enhance domestic and global demand		
Provide producer information and education		
Funding	\$0.10/\$100	\$0.40/\$100

Your voluntary investment is NPPC's primary source of funding; Checkoff dollars cannot be used for public policy funding.

The National Pork Producers Council (NPPC) conducts public policy outreach on behalf of its 44 affiliated state association members enhancing



opportunities for the success of U.S. pork producers and other industry stakeholders by establishing the U.S. pork industry as a consistent and responsible supplier of high quality pork to the domestic and world market.

NPPC is primarily funded through the Strategic Investment Program, a voluntary producer investment of \$.10 per \$100 of value that funds state and national public policy and regulatory programs on behalf of U.S. pork producers.

For more information on NPPC, visit www.nppc.org.

Coalition to Support Iowa's Farmers News and Notes



ISU student is summer intern

An Iowa State University student is spending the summer as a communications intern with the Coalition to Support Iowa's Farmers.

Emma Wilson is assisting CSIF by creating content for the organization's communications channels and coordinating farmer outreach activities. She also helps with day-to-day operations of the organization, including promoting and conducting open houses, workshops and other special events.

Wilson will return to ISU this fall as a senior, double-majoring in agricultural communications and journalism. She is active in many

student organizations including the Agricultural Communicators of Tomorrow Club and Iowa State Bacon Expo. The Guthrie County native grew up on a diversified grain and livestock farm near Guthrie Center.

"I'm excited to spend my summer with the coalition team supporting and advocating for farmers. Growing up on a family farm instilled my passion and appreciation for agriculture and I look forward to connecting and working with fellow farm families," Wilson said.

The Coalition to Support Iowa's Farmers was created by farmers to help farmers raise livestock successfully and responsibly. It's a joint partnership involving the Iowa Beef Industry Council, Iowa Cattlemen's Association, Iowa Corn Growers Association, Iowa Farm Bureau Federation, Iowa Pork Producers Association, Iowa Poultry Association, Iowa Soybean Association, Iowa Turkey Federation and Midwest Dairy Association.

The non-profit, non-partisan organization provides free assistance to farmers. CSIF does not lobby or develop policy. Farm families wanting a helping hand can contact the coalition at (800) 932-2436 or visit www.supportfarmers.com.

Tree planting workshop held

The Coalition to Support Iowa's Farmers hosted a Green Farmstead Partner Program (GFP) workshop earlier this summer to further highlight the value of planting trees on livestock farms.

Farmers who attended the event learned about the benefits of planting trees on livestock farms, engaged in a farmer panel discussion on establishing windbreaks around barns and feedlots, and took a tour of a nursery.

According to landscape and nursery professionals, a properly designed windbreak not only reduces the impact of winds and inclement weather, but can dissipate odors, shift snowfall and enhance farm aesthetics. These factors combined make trees an effective tool for improving neighbor relations.

CSIF offers the GFP to help farmers who are interested in establishing windbreaks with the help of Trees Forever and the Iowa Nursery and Landscape Association. All livestock farmers are eligible for the program.

Pork Recipes

Adobo Pork Tacos

1 1/2 pound pork loin, cut into
3/4-inch chops
2 tablespoons olive oil

Mexican Adobo Rub*

1/4 cup sweet paprika
1 tablespoon black pepper
1 tablespoon onion powder
2 teaspoons garlic powder
1 tablespoon cumin
2 tablespoons canned chipotle chile
in adobo sauce, crushed
1 teaspoon dried oregano
2 tablespoons kosher salt, or to taste



Nutrition:

Calories: 515 calories
Protein: 39 grams
Fat: 22 grams
Sodium: 3469 milligrams
Cholesterol: 85 milligrams
Saturated Fat: 6 grams
Carbohydrates: 39 grams
Fiber: 6 grams

For Mexican Adobo Rub:

In a medium-sized bowl, combine all the ingredients and mix to form a rub. Set aside.

Season pork with Mexican Adobo rub, making sure pork is well coated with the mixture. Heat olive oil in frying pan and sear the pork chops on both sides approximately 6 minutes. Cook pork to an internal temperature between 145 degrees F. to 160 degrees F. (use a digital thermometer). Remove pork from the frying pan and let rest 10-15 minutes before slicing into 1/4 inch strips. 4 servings (Nutritional information for 2 tacos per serving, no additional toppings). *Note: If preferred, use store-bought Mexican Adobo from Hispanic supermarket.

Bacon BBQ New York Pork Chops

4 New York (top loin) pork chops,
1-inch thick (6-ounce each)
4 slices bacon, preferably
maple-flavored
4 tablespoons barbecue sauce
1/2 cup lager beer, OR non-alcoholic
beer



Nutrition:

Calories: 350 calories
Protein: 51 grams
Fat: 11 grams
Sodium: 1120 milligrams
Cholesterol: 130 milligrams
Saturated Fat: 3 grams
Carbohydrates: 7 grams

Wrap bacon around the edges of the pork and secure with a wooden toothpick. Mix together barbecue sauce and beer. Prepare a grill to medium-high heat (about 450 degrees F.). Grill chops over direct heat until the internal temperature reaches between 145 degrees F. (medium rare) and 160 degrees F. (medium), on a meat thermometer, 4 to 5 minutes per side. Brush sauce on the chops the last 5 minutes of cooking time. Remove chops from the grill and let rest for 3 minutes. Serves 4.



Asian Slow Cooker New York Pork Roast

2 to 3 pound boneless New York (top loin) pork roast
2 tablespoons Chinese five-spice
2 tablespoons plus 3/4 cup brown sugar, divided
2 teaspoons garlic powder
2 teaspoons red pepper flakes, divided
1 teaspoon salt
1/2 teaspoon black pepper
1 1/2 cup plus 2 tablespoons cold water, divided
2 tablespoons cornstarch
1/4 cup apple cider vinegar
2 tablespoons soy sauce
Fresh chopped cilantro, for garnish
Lime wedges for garnish

Place the pork roast in your slow cooker. In a small bowl, whisk together the Chinese Five Spice, 2 tablespoons of brown sugar, garlic powder, 1 teaspoon crushed red pepper, 1 teaspoon salt, and 1/2 teaspoon black pepper. Rub the spice mixture all over the pork roast (including the bottom). Pour 1 cup of water around the side of the pork roast. Try not to pour it over top. Cover and cook on low for 8 hours or high for 4 hours. When there is about 20 minutes of cooking time left, prepare your glaze: In a small bowl, mix together the cornstarch and 2 tablespoons of cold water until dissolved. Set aside. In a large saucepan, add 1/2 cup of the remaining cold water, apple cider vinegar, soy sauce, 1 teaspoon crushed red pepper, and 3/4 cup brown sugar. Bring to a simmer and then stir in the cornstarch. Continue to stir until the glaze has thickened, about 5 minutes. Remove from heat. Remove the pork from the slow cooker and discard the liquid. Generously brush the pork with the glaze while the pork is still hot. Serve the remaining glaze on the side. Serve the pork with chopped fresh cilantro and lime wedges. 8 servings.

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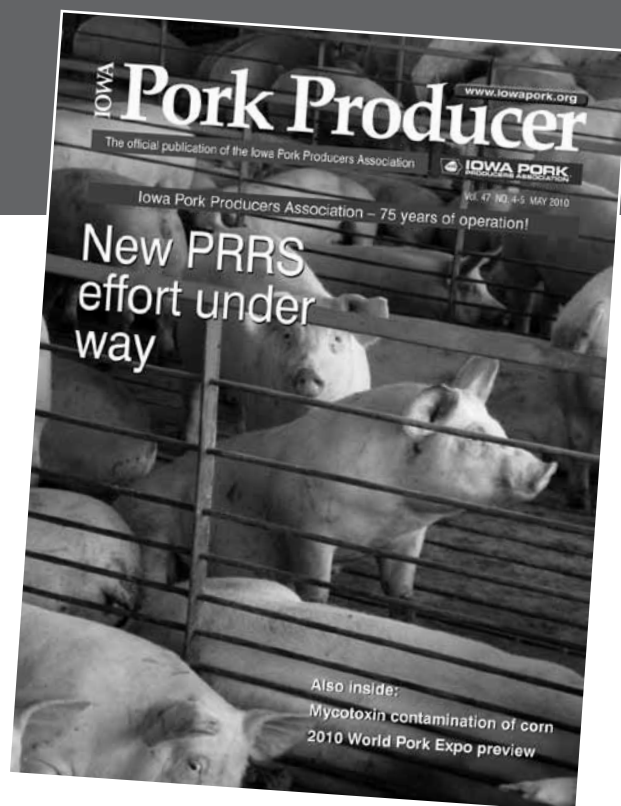

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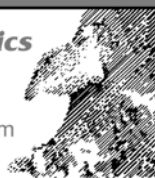
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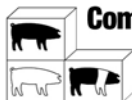
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The advertisement features a large background image of a modern, clean industrial facility, likely a pork processing plant, with long aisles and overhead lighting. A dark red banner at the top right contains the company logo and name. A white banner across the middle highlights the company's specialization in filtration technology. A dark red banner at the bottom provides contact information.

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