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Comments from the Dean

by Dr. Gary Cunningham, Dean and Director, Ag Research Division

In the last issue of *Extended Visions*, you read a farewell of sorts from Dan Duncan, the former Director of the ARDC. I want to take this opportunity to thank Dan for his long service to the ARDC.

As you read in Dan's last column, I have asked him to work in the Ag Research Division Dean's office on a full-time basis where he will be focusing on non-academic issues. Specifically, Dan will work with intellectual property, Husker Genetics, commodity boards, research land development, University of Nebraska Foundation projects and other special projects in my office.

I am pleased to announce that Mr. Mark Schroeder has agreed to accept the position of "ARDC Acting Director and General Farm Manager." Mark is the current Associate Director and General Farm Manager. I am also pleased to announce that Ms. Ruby Urban has agreed to accept the position of "ARDC Acting Assistant Director and ASSIST Business Center Manager." I am delighted that these two talented individuals have agreed to serve in these transitional capacities. Both Mark and Ruby bring a great deal of ARDC experience to their new roles.

The ARDC is an extremely important cog in our statewide research network. We have taken quite a while to plan an orderly transition of management at the ARDC that focuses on assisting our faculty that utilize the facility and attempting to keep our administrative costs as low as possible. After receiving input from IANR Administrators, faculty, and an outside review team, we have decided to implement a plan that does not require hiring additional staff at the ARDC, thus the "Acting" titles for both Mark and Ruby. Early in 2009, we will evaluate the changes to ensure they are working as we planned. At that time we will either make the changes permanent or adjust our management model.

Please join with me in welcoming Mark and Ruby to their new roles at the ARDC!! □

You are invited to a
reception honoring
Dan Duncan
on Wednesday, May 28
at 2:00 p.m.
at the ARDC August. N. Christenson
Research & Education Building



Swine Report Provides Insight on Research

Swine research, teaching and extension programs are conducted through UNL's Department of Animal Science. Recent and ongoing swine research projects include:

- * Research on nutrient utilization of distiller's grains evaluates efficiency.
- * The effects of growth modifiers on the performance of pigs are evaluated.
- * Identifying vitamin and mineral requirements of nursery and growing-finishing pigs.
- * The effects of protein and amino acids on growth, carcass compositions, and organ weights are studied.

Each year a report is compiled by the faculty and staff in UNL's Department of Animal Science and cooperating departments reporting the latest research findings in swine research. The report focuses on swine health, nutrition, management, meats, and odor.

The full report is available online in downloadable PDF format at <http://www.animalscience.unl.edu/extension/swine.html>. This article features brief excerpts taken from the 2008 Nebraska Swine Report. Please visit the aforementioned website to learn more about the research studies and findings.

The increased availability of corn distillers dried grain with solubles (DDGS) has resulted from the increase in ethanol production from corn. Research indicates that pork quality is influenced by the dietary ingredients used in growing-finishing pig diets. Several studies focus on DDGS at the swine research unit at the ARDC including the following projects.

The effect of corn distillers dried grain with solubles on growth performance for growing-finishing pigs. Growth performance of growing -finishing pigs was reduced as dietary DDGS inclusion increased from 0 to 15%. These results appear to be affected by the fiber content of the DDGS source used in this study.

The effect of corn distillers dried grain with solubles on carcass characteristics and pork quality. Dietary distillers dried grains with solubles inclusion decreased saturated fatty acid and increased unsaturated fatty acid concentrations in fat samples from growing-finishing pigs. Pork color, chemical composition, or sensory characteristics were not affected by DDGS.

Effects of increasing concentrations of distillers dried grains with solubles on growth performance of weanling pigs. Feeding low concentrations of DDGS early in the nursery period does not help to maintain growth performance when high concentrations of DDGS are incorporated in the diets during the late nursery period.

Dietary fiber in sow gestation diets – and updated review. Opportunities exist for pork producers to maintain or improve sow reproductive performance by using fibrous feedstuffs during gestation. Twenty-four published reports dating from 1975-2007 were examined to determine the overall effects of feeding gestation sows additional fiber. The findings included that sows can successfully consume high fiber diets during gestation with few deleterious effects. Positive effects from feeding high-fiber diets were evident in litter size and sow lactation feed intake, but they are not largely evident until the second reproductive cycle following exposure to the diet. It's possible that to ensure sow and litter performance improvements from feeding fiber, fiber must be included in the diet before mating.



Staff at the Swine Research Unit work closely with faculty on nutrition studies and other research.

In-Field Clinics for Agribusiness Representatives and Producers

Extension continues to offer training opportunities for ag producers and professionals. Contact us at (800)529-8030 to register or for more information on fees, pre-registration deadlines, and other details on any of the programs or training sessions listed in this article.

* Field Scout Training

A UNL Extension crop scout training course will provide crop scouts an opportunity to enhance their skills.

The training is designed for entry level scouts who will be working for crop consultants, industry agronomists or farm service centers across Nebraska and neighboring states, said Keith Glewen, UNL Extension educator.

The course is from 9 a.m.-5 p.m. with registration at 8:30 a.m. May 13 at the ARDC.

"Past participants have given the training high marks," Glewen said. "In fact, 95 percent of last year's participants rated the program as above average or one of the best programs of its type available."

Topics include: how corn and soybean plants grow and develop; soybean and corn pests; insect quiz; plant morphology; using a key to identify weed seedlings; identifying weeds; crop diseases and quiz; and nutrient deficiencies.

Presenters include: Dale Flowerday, agronomist; Tamra Jackson, UNL Extension plant pathologist; Keith Jarvi, UNL Extension entomologist; Keith Glewen, UNL Extension educator; Lowell Sandell, UNL Extension weed science educator; and Amy Ziems, UNL Extension educator - plant pathology.

"Some of the benefits registrants stated the training provided included practical/working knowledge and better accuracy in field scouting," Glewen said. "Other participants appreciated the hands-on, practical format."

IN-FIELD CLINICS - Cont. on P. 2

UNL SWINE RESEARCH - Cont. on P. 2

University of Nebraska-Lincoln * Institute of Agriculture and Natural Resources

IN-FIELD CLINICS - Cont. from P. 1

Registration is \$105 and includes new reference materials in this year’s take home instruction manual.
A total of 5.5 Certified Crop Advisor Continuing Education Units is anticipated in the integrated pest management (4.0), crop production (1.0) and soil fertility (.5) categories.

*** Wheat Production and Pest Management In-Field Clinic**

An upcoming in-field clinic will focus on wheat production and pest management. Designed for individuals involved in wheat production, the training session will provide the opportunity to learn about the latest research and techniques specific to wheat production.

UNL Extension’s **Wheat Production and Pest Management In-Field Clinic is scheduled for June 11.** The clinic begins with 8:30 a.m. registration at the ARDC and starts at 9 a.m. Participants will meet at the August N. Christenson Research and Education Building.

Topics include: Management of Wheat Insects, Wheat Management Decisions, Selecting Varieties and Disease Management.

Presenters include: Stephen Baenziger, UNL Eugene W. Price Distinguished Professor and UNL Wheat Breeder; Robert Klein, UNL Extension Cropping Systems Specialist; Stephen Wegulo, UNL Plant Pathologist; and Robert Wright, UNL Extension Entomologist.

Early registration reserves a seat and resource materials. Cost for the clinic is \$95 for those registering one week in advance and \$105 after.

CCA credits are applied for and pending.

For more information or to register, for the Field Scout Training or the Wheat Production and Pest Management In-Field Clinic, call (800) 529-8030, e-mail cdunbar2@unl.edu or visit the Web at <http://ardc.unl.edu/training.shtml>.

The training sessions are part of the UNL Extension Crop Management Diagnostic Clinics and are sponsored by Extension in the university's Institute of Agriculture and Natural Resources. *Additional diagnostic clinics include:*

- * Mid-Summer Diagnostic Clinic - July 15**
- * Mid-Summer Diagnostic Clinic - July 16**
- * Late Season Diagnostic Clinic - August 20**

Call or visit the website at <http://ardc.unl.edu/training.shtml> to learn more about these other SUMMER 2008 LEARNING & CCA OPPORTUNITIES...

- * Soybean Management Field Days**
Aug. 12 - Ted Norder Farm - Bruning
Aug. 13 - Terry Hackbart & Sons Farm - Seward (located next to Plains Power & Equipment)
Aug. 14 - Jim Stout Farms - Wakefield
Aug. 15 - Dalvin & Betty Scheer Farm - Arlington
Unbiased, Research-Based Information for Soy Producers and Industry Reps.

- * Solution Days**
Aug. 26 & Aug. 27- York
Field site at the intersection of Hwy 81 and County Road 18 three miles north of York
Learn to Manage your Corn & Soy Production Dollars More Wisely!

- * Irrigation and Energy Conservation Field Day**
Sept. 3 - UNL South Central Field Laboratory - Clay Center
For Irrigated Corn Producers - Conserve Water... Save Dollars! □

Website URL Correction

The “Eating for a Healthy Heart” article that appeared in the March/April edition of Extended Visions listed an incorrect website address for the American Heart Association. The website can be found at: <http://www.americanheart.org>. □

UNL SWINE RESEARCH - Cont. from P. 1

Effects of nutrition during gilt development on lifetime productivity of sows of two profile maternal lines: summary of growth characteristics and sow productivity – 2008. Differences in litter performance between genetic lines do not appear to be due to gilt management. Dietary energy restriction during the gilt development period positively affects litter weaning weight.

Effects of nutrition during gilt development and genetic line on farrowing rates through parity 3, causes of culling, sow weights and back-fats through parity 4, and factors affecting farrowing rates. Restricting feed

intake during the gilt development period may reduce the number available for breeding in some genetic lines, but thereafter had little effect on sow longevity or productivity. Several studies also examine lysine requirements, such as: **Estimation of the lysine requirements for high-lean growth pigs.** The study notes that lysine requirements (total basis) for high-lean growth potential barrows and gilts raised to maximize growth performance was 1.14, 1.04, 0.94, and 0.86% lysine, for Grower-1, 44 to 79 pound; Grower-2, 79 to 132 pound; Finisher-1, 132 to 189 pound; and Finisher-2, 189 to 260 lb, respectively.

Another lysine study shows that low-crude protein, amino acid-supplemented diets containing ractopamine balanced to contain 4.57 to 5.2 grams of lysine/Mcal of energy can adequately supply amino acids for growth in late finishing pigs.

Other swine studies conducted by the UNL Animal Science Department that are included in the 2008 report include:

- * Does dam parity affect progeny health status?** Preliminary data indicates that progeny health status may improve with increasing parity.
- * Validating the odor footprint tool using field data.** This study supports using the Odor Footprint Tool as a planning and screening tool for assessing odor impact from livestock facilities and estimating minimum separation distances to meet annoyance-free targets.
- * Association of odor measures with annoyance: results of an odor-monitoring field study.** Linkages between odor measurements and consequential odor annoyance were found, which raises the prospects that objective measures may be used to predict when odors will be construed as being annoying.
- * Effects of organic acid salts on the quality characteristics of whole muscle hams.** Using organic acid salts in hams at increased formulation use levels will reduce product yields, flavor and texture desirability, and overall ham acceptability.
- * The report also includes Key Points from the 48th Annual George A. Young Swine Health and Management Conference.** The George A. Young Swine Conference has a long-standing tradition of providing up-to-date information on developments in research and production techniques as they relate to today's swine industry. Industry experts have come to respect this conference as their annual opportunity to communicate with colleagues, and to interact with others throughout the spectrum of swine research and production. The 2007 conference focused on biosecurity. *Please download the complete report from the Department of Animal Science's website at www.animalscience.unl.edu or call 402-472-7211 for more information.* □



UNL swine research includes identifying vitamin and mineral requirements of nursery pigs.



- Health
- Nutrition
- Management
- Meats
- Odor

NEBRASKA
SWINE
REPORT



Web site:
www.ianr.unl.edu/pubs/swine/pigpdf.htm
Prepared by the staff in Animal Science and cooperating Departments for use in Extension, Teaching, and Research programs.
Extension Division
Agricultural Research Division
Institute of Agriculture and Natural Resources
University of Nebraska-Lincoln

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Help for Your Lawn and Garden

Have questions about how to keep your lawn lush and green? Or how to keep your garden growing? The University of Nebraska Extension Horticulture web site provides a wealth of information on horticulture-related topics. The site seeks to help Nebraskans create sustainable rural and urban landscapes.

Check out the website at: <http://extensionhorticulture.unl.edu>.

Here’s what you will find:

- * Articles, Publications & Other Resources – photos and articles to help you with seasonal questions, vast array of resources ranging from a how-to DVDs store to databases to identification resources and newsletters. This link has everything to take you from planting to harvest and preservation.
 - * Hort Update - A seasonal horticulture newsletter for the green industry.
 - * Industry Partners
 - * Pest Management - A pest calendar and a variety of helpful links.
 - * Plant Care - Includes plant care, seasonal “to do” lists, weather links and information on fruits, trees and shrubs.
 - * The Master Gardener Program
 - * Upcoming Programs
 - * Youth Gardening Grants & Education
- Visit the site today to learn more! □



ARDC Feature Unit
Swine Research

1, 2006 filling the Nonruminant Nutrition position left vacant when Austin Lewis retired. Tom grew up in Lincoln, Nebraska and attended Lincoln East High School before departing Lincoln to attend Rockford College in Rockford, Illinois. Tom earned his B.A. degree (1996) in Biology, with minors in chemistry, physics and secondary education from Rockford College. After obtaining his undergraduate degree, Tom taught secondary science (biology, chemistry and physics) for five years in three different Illinois high schools. Upon making the decision to attend graduate school, Tom enrolled as a Graduate Teaching/Research Assistant at Kansas State University. While at Kansas State, Tom received training in animal nutrition, immunology and physiology. Under the guidance of his major professor, Dr. J.E. Minton, Tom received his Master's (2003) in Animal Science, and Ph.D. (2006) in Animal Physiology from Kansas State University, Manhattan, KS.

At UNL, Tom's teaching responsibilities include contributions to a systems physiology course in the new cooperative program in veterinary medical education that UNL entered into with Iowa State University. Tom's contribution to the systems physiology course includes the teaching of digestive physiology and metabolism. In addition, Tom is also responsible for teaching a graduate level course in protein and amino acid nutrition. Tom plans to develop a research program utilizing both applied and basic techniques to investigate how nutrient intake and absorption are influenced by gastrointestinal stress (e.g., disease, subclinical pathogenic challenges, nutrient deprivation) as well as adaptive changes in gut cellularity, cell characteristics and enterocyte metabolism.

Currently, Tom is involved in a research project that is designed to investigate the effects of dam parity on progeny health status and growth performance in swine. In addition, Tom has been working on projects that have examined the role of distillers grains in pig nursery diets. □

Behind the Research

Thomas E. Burkey joined the Animal Science faculty on July



Thomas Burkey, Ph.D.

About the People

Matt Anderson is the manager of the Swine Research Unit and has been in that position for 20 years now and has worked at the Swine Unit for over 26 years. Matt and his wife Linda, who is an R.N. at Methodist Hospital, live on a small acreage between Gretna and Ashland. They have two kids, Michelle and Jess, who are attending college at the UNMC and UNO respectively. Spare time activities include church, golfing, and gardening.

Tom McGargill is a Research Tech II in the growing and finishing area. He also manages the manure applications and delivers most of the rations. He has worked for the ARDC Swine Research Unit for 20 years. He lives at the swine residence and enjoys golfing in his spare time.

Jeff Perkins has worked for the Swine Unit for over 25 years. He has worked in all phases of the swine operation, and is currently Supervising the farrowing phase of the unit. Jeff and his wife, Robin, have a son who is a freshman in high school. Jeff and his family enjoy traveling, and attending sporting activities. Jeff and his son are very active in the Boy Scouts of America, as his son works towards his Eagle rank. Other hobbies include fishing, camping, and coin collecting.

Walter "Walt" Powell resides in Fremont with wife, Kris. Walt has been employed at the Swine Unit since December 08. They have a daughter, son-in-law and three grandchildren. His hobbies include gardening and woodworking. Walt is currently working towards obtaining a bachelor's degree. He obtained an Associates Degree from Metropolitan Community College in February of this year and hopes to enroll at UNL this fall.

Trevor Glidden has worked is a Swine Tech II and works with physiology, gestation, and breeding at the swine unit. He has worked at the swine unit for three years. Trevor lives in Lincoln and enjoys hunting, fishing, playing softball and volleyball in his spare time.

Don McClure is an Ag Research Tech II and works with growing and finishing animals at the unit. He was the manager at the sheep unit for 30 years before relocating to the swine research area. He has a Bachelor's Degree from Kansas State University. He and his wife, Rhonda, live near Wahoo. They have two sons and a daughter.

Kelsey Rhynalds also works at the swine research unit as an Ag Research Tech I. □



Front Row: Don McClure, Walt Powell, and Tom McGargill. Back row: Matt Anderson, Jeff Perkins, Kelsey Rhynalds, and Trevor Glidden

Babysitting Basics

Training Clinic for 4-Hers and Others

This clinic is open to anyone (4-Her or non-4-Her) who is wanting to learn more about being a GREAT babysitter.

Babysitting Basics will be held June 2—4, 2008 from 9:00 a.m.—3:30 p.m. at the August N. Christenson Research and Education building. Those attending will learn about:

- * First Aid / Emergency Preparedness
- * Keeping Children Safe
- * Playing & Reading with Children
- * Bathing / Diapering / Feeding young children
- * Babysitting as a Business
- * Rights and Responsibilities
- * Much, Much, More

Registration fee for this workshop \$20 / participant. Lunch is provided. Call 402-624-8030. □



Babysitting Basics



Calendar of Events

May

13	Field Scout Training for Pest Managers	8:00-5:00
14	Unit Managers Meeting	1:00-3:00
15	EU Parliament Ag Committee Chairman Visit	2:00-4:30
19	Co-Product Storage and Utilization	9:00-6:00
20	Co-Product Storage and Utilization	8:00-1:00
24	Marietta Livestock 4-H Club	10:00-12:00
28	Reception for Dan Duncan	2:00-4:00

June

2	Babysitting Basics	9:00-4:00
3	Babysitting Basics	9:00-4:00
4	Babysitting Basics	9:00-4:00
10	4-H Rocket Clinic	9:00-3:30
11	Unit Managers Meeting	1:00-3:00
11	Wheat Production/Pest Mgt Training	8:00-5:00
16	4-H Photography Clinic	1:00-4:00
16	Saunders County Extension Board	7:00-10:00pm
17	GPS Workshop for Youth	9:00-3:00
18	Sewing for Fun Workshop	9:00-3:00
19	Clothing Level I Workshop	8:00-5:00
20	Grain Marketing Breakfast Program	7:00-12:00
25	4-H Modeling Clinic	9:00-3:00
26 - 28	Master Beekeepers Workshop	8:00-5:00

2008 Master Beekeeping Workshop

A Master Beekeeping Workshop will be offered at the ARDC on June 26-28. This workshop will provide detailed instruction in the biology and management of honey bees. Training will include both classroom and hands-on sessions. Beekeepers should have at least one year of experience managing honey bees before registering for this workshop. A team of experts has been assembled to make this an outstanding educational opportunity. Registration for the workshop is \$100 and includes five meals, refreshments, a cap and a workbook.

Send Master Beekeeping registrations to:

Jeri Cunningham, UNL Department of Entomology
202 Plant Industry Bldg., Lincoln, NE 68583-0816
Email: JCUNNINGHAM1@UNL.EDU
Phone: (402) 472-8678

Make check payable to the UNL Dept. of Entomology. □



Co-Product Storage and Utilization Conference

Professional Development Conference for Educators

A Co-Product Storage and Utilization Conference will be held at the ARDC on May19-20. The conference is aimed at Extension educators, NRCS personnel, Community College animal science teachers, and high school ag teachers.

Please preregister by May 9th with John Hay at (402) 472-0408 or jhay2@unl.edu. This professional development conference for educators is made possible through funding from the North Central Sustainable Agriculture Research and Education (SARE). Here is what will be covered at the conference:

- * Hands-on demonstration of mixing and storing distillers
- * Ideas and materials for use in educational programs
- * Experts in the field will come together to discuss all current research on distillers storage, including:

- Process, feed types, and fractionation
- Nutrient analysis, variability
- Feed issues (nutrition, research, economics),Cow calf, Stocker, Feedlot
- Carcass Impacts
- Pricing of co-products
- Storage details: Mixes that work, Measuring what works,
- * Nutrient quality
- * Labor equipment needs, Economics
- Shrink
- Emerging Issues: Mold, Mycotoxins, Sulfur, Feeding large amounts. □

4-H Summer Workshops Open to ALL Youth

A variety of clinics are available for youth to attend this summer. The workshops are open to ALL youth - regardless of whether they are 4-H members or not, so bring friends! The workshops include the following.

4-H Rocket Clinic: Ron Suing, a 4-H Rocket judge will be presenting this clinic on June 10, from 9:00—12:00 noon. The workshop is designed to cover the buying to flying of the rocket. He will go over details about what he looks for when he is judging at county fairs, what details affect the flight of your rocket and helping you find success in the project. If anyone would like to bring their rocket, Ron will look them over and make suggestions on getting them ready for exhibit. Cost: \$5.00 / participant.

GPS—Personal Navigation Systems will be presented by Allan Vyhnalek, Platte County Extension Educator. This clinic will be exciting and fun for those wanting to learn more about GPS technology. Tuesday, June 17 from 9:00 a.m.—3:00 p.m., youth who are 10 years old or older may attend. Remember, you DO NOT need to be a 4-Her, so this would be a great workshop to invite friends to. Youth attending will learn about compasses, build their own compass, read and find bearings, and receive basic orienteering skills. In addition, participants will learn about GPS technology, the responsibility of using such technology, the basic usage of GPS garmin, and take part in an exploration and scavenger hunt. Cost is \$10 per participant, which includes lunch.

Photography Clinic: This clinic will be presented by Kay Jurgens, 4-H Photography Judge, on Monday, June 16 from 1:00 p.m. - 4:00 p.m. There is no cost to attend this workshop. Participants will learn about all of the new changes in the 4-H photography project, what makes a good photo, presentation and exhibit of your prints, matting and framing, cropping, and much more. Participants needs to bring at least one 4 x 6 print to practice matting. If anyone wants to bring photos for evaluation by Kay, that is encouraged.

Ready, Set, SEW: Doris Leader, a long-time 4-H judge will be working with local volunteers to present this excellent opportunity for young people who want to learn more about sewing. Two days, provide multiple opportunities:

June 18: 9:00—11:30 is for Sewing for Fun youth who would like to make a Pillowcase. \$5.00 / participant

June 18: 12:00—3:00 is for Sewing for Fun youth who would like to make a Dirndl Skirt. \$5.00 / participant

June 19: 9:00—3:00 is for Clothing Level I youth to make a pair of shorts and top. \$10.00 / participant

Everyone will need to bring their own sewing machine, pre-washed material, pattern and all of the supplies needed to complete the project. A supply list will be sent to those registering with additional details.

Parents are encouraged to attend with their child. Adult lunches can be purchased for \$5.00.

Modeling Clinic: June 25, 9:00—3:00. This is a fun day to spend learning more about yourself and gaining confidence. Presented by Karna Dam and Jenna Specht, this clinic will have many activities including color draping, hair, skin and nail care. Dining Etiquette, Poise and Confidence. Jenna will be working with everyone to help them prepare for the fashion revue contest at the county fair, where the will be learning the “T” position and what to do in front of the judge and on the stage during the public revue. The cost for this clinic is \$10 per participant which includes lunch.

PRE-REGISTRATION is required for all of the clinics. Registration deadline is June 6. Register below or call the Saunders County Extension office. ☐



4-H Summer Clinics Registration

I am registering for...

— June 10—4-H Rocket Clinic—\$5.00/participant

— June 16—Photography Clinic— Free

— June 17—GPS – Personal Navigation Systems— \$10.00/participant (includes lunch)

— June 18—Ready, Set, SEW (BEGINNER)—\$5.00/participant, Addl \$5/00/person for lunch

— June 19—Ready, Set, SEW (LEVEL 1)—\$10.00/participant (includes lunch), \$5.00/parent lunch

— June 25—Modeling Clinic— \$10.00/participant (includes lunch)

Name _____

Address, City, State, Zip _____

Phone # _____ E-mail _____

Total \$ Amount enclosed _____

Return with payment to:

UNL Extension in Saunders County
1071 County Road G
Ithaca, NE 68033

Lunch Count

n/a

n/a



M.E.A.D.

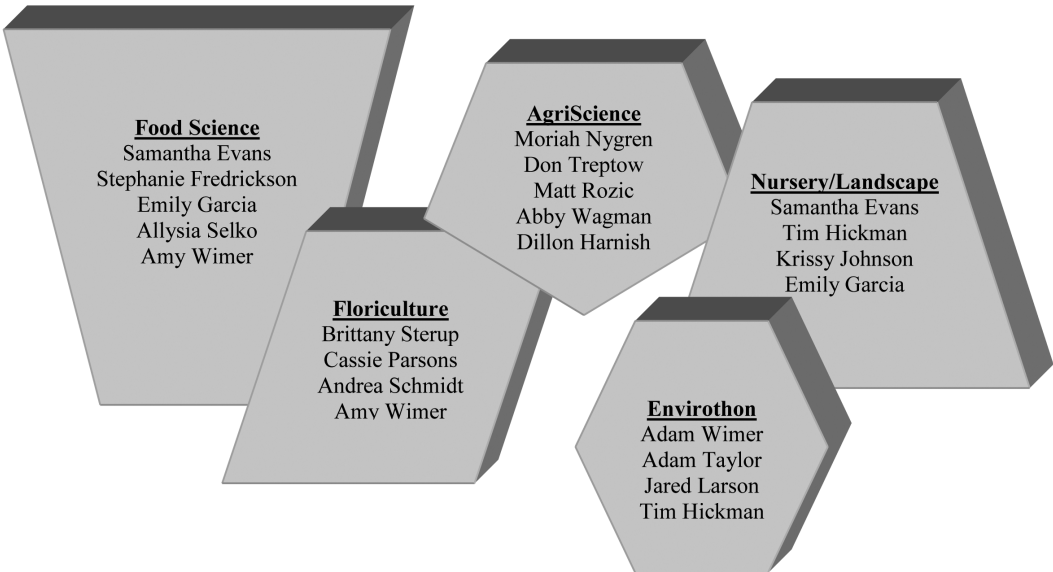
Making Education in
Agriculture Different

FFA Competition Participants Recognized

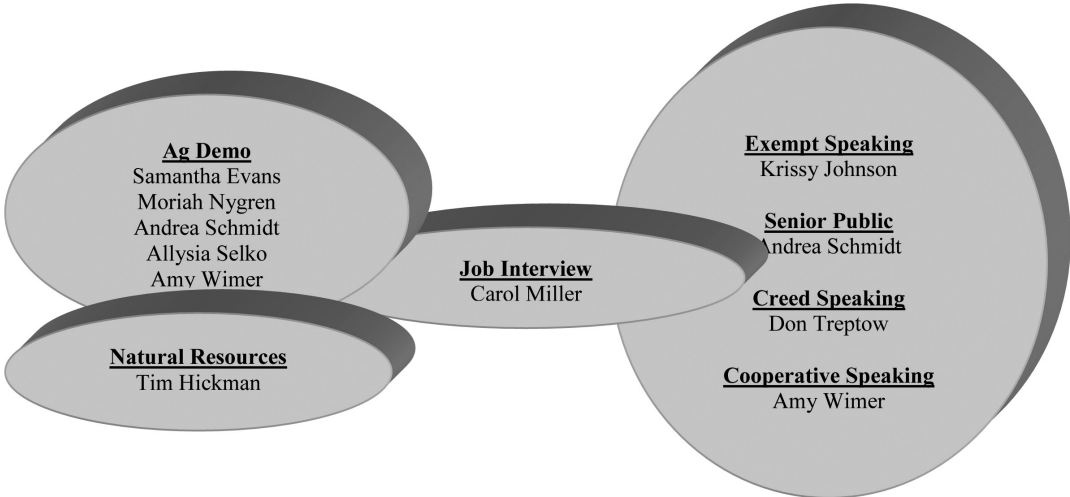
by Jenny Kocian, Ag Educator

Below highlights the Mead FFA member accomplishments and participants throughout the year. Congratulations to all the FFA students on an outstanding year! ☐

CDE (Career Development Event)



LSE (Leadership Skills Event)



Proficiencies, Degrees & Appreciation

