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

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 Ziem, UNL Extension educator - plant pathology.

"Some of the benefits reported by participants include: increased 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

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 weaning 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.

ARDC Feature Unit

Swine Research

Scientists at the Swine Research Unit work closely with faculty on nutrition studies and other research projects. You are invited to a reception honoring Dan Duncan on Wednesday, May 28 at 2:00 p.m. at the ARDC Auditorium. N. Christenson Research & Education Building.
Registration is $105 and includes new reference materials in this year’s take home instruction manual. A total of 3.5 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 CCA credits are applied for and pending.

* Soybean Management Field Days

**Soybean Management Field Days** are being held this month in the area to provide educational opportunities and to showcase new varieties and production techniques. For more information, visit the website at http://ardc.unl.edu/training.shtml.

Call or visit the website at http://ardc.unl.edu/training.shtml to learn more about these other SUMMER 2008 LEARN-ING & CCA OPPORTUNITIES... * Mid-Summer Diagnostic Clinic - July 15
   * Late Season Diagnostic Clinic - August 20

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* 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 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.

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

9:00 a.m.—3:30 p.m. at the August N. Christenson Research

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**Babysitting Basics**

**Training Clinic for 4-Hers and Others**

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

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**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
20-21 Nebr State 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
4-5 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
16-17 Photography Clinic 1:00-4:00
16 Saunders County Extension Board 7:00-10:00pm
17 GPS Workshop for Youth 9:00-3:00
17 Sewing for Fun Workshop 9:00-3:00
18 Clothing Style I Workshop 8:00-5:00
20-21 Grant Marketing Breakfast Program 7:00-4:00
24 Marietta Livestock 4-H Club 10:00-12:00
24 Co-Product Storage and Utilization Conference 8:00-1:00
26-28 Master Beekeepers Workshop 8:00-5:00

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**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 work- shop. 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: JUCUNNINGHAM1@UNL.EDU
Phone: (402) 472-8678

Make check payable to the UNL Dept. of Entomology.

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**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 May 19-20. The conference is aimed at Extension educators, NRCS personnel, Community College animal science teachers, and high school ag teachers.

Please preregister for May 19th with John Hay at (402) 472-0408 or johnhay@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 (market, research, economies), 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

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**ARDC Feature Unit**

**Swine Research**

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**Behind the Research**

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**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.

Spate 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 with 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 family enjoy traveling, and attending sporting activities. Jeff and his son are very active in the Boy Scouts of America.

Trevor Glidden has worked is a Swine Tech II and works with physiology, gestation, and lactation. Trevor Glidden has worked for the Swine Unit for 26 years. He lives in Fremont with wife, Kris. Walt is known for his hands-on sessions. Beekeepers should have at least one year of experience managing honey bees before registering for this work- shop. A team of experts has been assembled to make this an outstanding educational opportunity. Registration is $100 and includes five meals, refreshments, a cap and a workbook.

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**2008 Master Beekeeping Workshop**

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**Professional Development Conference for Educators**

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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 need 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 19: 9:00—3:00 is for Clothing Level I youth to make a pair of shorts and top. $10.00 / participant.
- June 19: 9:00—3:00 is for Clothing Level I youth 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 spending learning more about yourself and gaining confidence. Presented by Karra Durn 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.

**LSE (Leadership Skills Event)**

**SAE Projects**
- Tim Hickman- Swine Placement & Equine Science
- Adam Taylor- Turf Grass Placement
- Adam Wimer- Ag Repair & Maintenance
- Alyssa Selko- Vegetable Production
- Brittany Sturup- Ag Education
- Jared Larson- Diversified Crop Production
- Cassie Parsons- Ag Education

**NOTES OF APPRECIATION**
- Bus Drivers
- Cooks
- Maintenance
- Meat Staff
- Parents
- Community
- Partners & Businesses

**Chapter Degrees**
- Samantha Evans
- Stephanie Fredrickson
- Emily Garcia

**State Degree**
- Jared Larson
- Alyssa Selko

**Honorary State Degree**
- Scott & Dalene Selko
- Russ & Irene Larsen

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For more information, call 402-624-8000 or 1-800-529-8030. Check out our web site at http://ardc.unl.edu. E-mail dpittman1@unl.edu.

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Information for swine research articles provided by Dr. Phillip Miller and Matt Anderson, UNL Department of Animal Science.