August 2002

Extended Visions July-August 2002

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**The Price of Change**

By Daniel J. Duncan, ARDC Director

Have you been to the Research and Education Building at the ARDC recently? Well, if you have you might be one of the many people commenting on the appearance of our lawn – none of which has been positive. It is pretty ugly on the west side of the building right now.

When we were building the R&E Building, you might remember that the first bid we received was over budget. So the building was redesigned and rebid. In this process, the funds for the landscaping were pulled out of the main bid and listed as an alternative. Not surprisingly, funds were not sufficient to implement the landscaping plan.

As a result of this, we planned to install a low maintenance landscape that would require little water and few inputs. This plan worked well for the first few years. Rainfall was abundant. However, the past two dry years devastated much of the plant material, especially in areas that did not receive shade. It became obvious last fall that we needed to change our philosophy and put more resources into the landscape.

In July, a vendor will install an irrigation system that will enable turf and ornamental areas to receive adequate moisture. Once this is installed, we will implement a new landscaping plan that can take advantage of this change. However, in the interim, the landscape will look worse before it looks better… the price of change.

Not all landscape, however, at the R&E Building is in this poor shape. The Ken Good Courtyard is absolutely stunning!!! Stop by and take a look at this hidden beauty.

Please have patience with us. We will make the entrance to the R&E Building stunning as well. It will just take some time.

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**Crop Production Field Day**

Friday, July 19 - 9 a.m. - 1:30 p.m.

The Crop Production Field Day is an opportunity to see firsthand field demonstrations that address crop management systems on your farm. Questions that you, as a decision maker, face during the growing season that affect your operation’s profitability will be addressed.

Join us for a half-day of crop production QUICK HITTERS with the University of Nebraska and agribusiness professionals. Watch for more details!

Call NU Cooperative Extension at (402)624-8030 or (800)529-8030 for details.

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**Mid-Summer Crop Diagnostic Clinic** - July 18

Agricultural professionals and crop producers will learn about crop diagnostics and take a close-up look at field conditions and the latest research and techniques at a July 18 clinic. The training will be held at the University of Nebraska Agricultural Research and Development Center near Mead from 7:45 a.m. - 4:30 p.m.

The clinic is an excellent opportunity to gain firsthand, in-field experience. Participants learn from noted subject matter specialists in areas important to crop production profitability.

The diagnostic clinic will cover crop management, soybean pest, sprayer management, fertilizer application equipment, hand-on crop nutrient management, and herbicide mode of action.
**Meet the VBMS Employees**

- **Blaine Clowser** is the manager at the Veterinary and Biomedical Sciences research area at the ARDC. Blaine and his wife, Sharon, live near Seward. They have two daughters. Blaine is also an active member of the Air National Guard.

- **Ben Bergman**, Jr. is a research technician at the research area. Ben serves as a herdsman, oversees feeding and care of the cow herd and individual investigator’s cattle. He also is an equipment operator and does maintenance jobs on site facilities and fences at the research area. He and his wife, Jackie, live near Ithaca. He is also a member of the Saunders County Livestock Association.

- **Bryce Martin** performs many of the same duties as Ben, but will be serving as manager while Blaine is on active duty. Bryce and his wife, Valerie, live near Ithaca. Bryce has a very successful Berkshire hog herd and markets many 4-H and FFA show hogs.

**Behind the Research**

The University of Nebraska Veterinary and Biomedical Sciences (VBMS) Department is involved in research, teaching, extension and diagnostic service throughout Nebraska. Overseeing those functions is Jack (John) Schmitz. Schmitz is a professor with the University’s Veterinary and Biomedical Sciences Department, and serves as Department Head. He received his doctorate degree in Veterinary Medicine from Colorado State University, a doctoral degree in Philosophy from University of Missouri and is a diplomat with the American College of Veterinary Pathologists. His main research interests are pathogens and diagnosis of infectious diseases of livestock. He has been with the University since 1984.

**Considering College? The World is Your Classroom at the University of Nebraska!**

Trying to decide on a major and a college? Not sure if an agricultural major is right for you? You may be surprised to learn how many different career paths are available in agriculture. Key in [grow.unl.edu](http://grow.unl.edu) on the internet and you’ll find information about the University of Nebraska and the College of Agricultural Sciences and Natural Resources. Learn from student testimonies and how students grow in their knowledge of world issues and happenings through outstanding coursework, research and internship opportunities, and international study. There is information for their parents, too!

**Research of VBMS** - Continued from Page 1

Since these cattle carry no natural or vaccine induced antibodies to these viral agents, significant information on vaccinations, viral infection processes, and various prevention and treatment strategies can be obtained from calves in the herd. The herd has also tested negative for the O157:H7 strain of E. coli. The studies conducted using these animals can also have a great impact on the safety of the food supply in the United States.

Studies on congenital abnormalities, i.e. present at birth, in cattle are also conducted utilizing cattle at the ARDC. Abnormalities are studied to determine if they are caused by genetic inheritance or environmental factors. This information is passed along to producers and can affect how they select herd sires or influence other management practices.

While the herd is at the ARDC, most of the studies are conducted in the VBMS Animal Research Isolation Facilities in Lincoln on east campus. VBMS has an interdisciplinary group of faculty in areas including biomedical sciences, epidemiology, microbiology, bacteriology, virology, immunology, pathology, cell biology, genetics, molecular biology, biochemistry, and toxicology. A brief description of each of these areas of study follows.

- **Biomedical Sciences** - This is the group of sciences that underpins the practice of medicine in both animals and humans. Research areas include infectious and environmental diseases in animals and humans. Approaches include molecular biology, immunology, epidemiology, cell biology, genetics and biochemistry.

- **Epidemiology** - Risk factors and population dynamics in animal health and value, taking into account environmental, spatial and ecological factors.

- **Microbiology** - Microbial organisms and the mechanisms by which they cause disease in animals and humans. Approaches include molecular biology, immunology, cell biology, genetics and biochemistry.

- **Bacteriology** - Bacterial infectious disease research involving pathogens of animals and humans. Approaches include molecular biology, immunology, cell biology, genetics and biochemistry.

- **Virology** - Viral infectious disease research involving pathogens of animals and humans. Approaches include molecular biology, immunology, cell biology, genetics and biochemistry.

- **Immunology** - The role of the hosts immune response in the disease process. Approaches include molecular biology, cell biology, genetics and biochemistry.

- **Pathology** - The biology of disease in humans and animals. This includes genetic, parasitic, bacterial and viral diseases.

- **Cell Biology** - Investigating the role of fundamental cellular processes in diseases of humans and animals.

- **Genomics** - Study of the genetic make up of both host and pathogen, in order to understand and hopefully control the disease process.

- **Molecular Biology** - The use of modern molecular techniques to investigate the basis for diseases in animals and humans.
* Biochemistry - Application of biochemical strategies to understand diseases in animals and humans.

* Toxicology - The role of toxins in disease processes.

In all aspects of VBM5 research, continued emphasis is placed on collaborative efforts towards advancement of veterinary and biomedical knowledge. Scientific knowledge and skills are used for the benefit of society through the protection of animal health, relief of animal suffering, the conservation of livestock resources, and the promotion of public health.

Mid-Summer CMDC - Continued from Page 1

action, accessing UNL recommendations, insects, diseases, and weeds.

This clinic will help participants stay informed about today’s ever-changing world of crop production. Last year’s participants indicated that the average profits gained from attending were an additional $5.54 per acre. Those just out of school, well-seasoned producers and crop production professionals will benefit from this clinic and be able to use this information daily.

Trainees are from the NU faculty and the agricultural industry. The clinics provide an unbiased approach by highly skilled trainers. In addition to the tried and true information, participants learn firsthand what the presenters have experienced in their research.

Early diagnostic clinic registration is $115 until July 11. After that, registration is $165. Approximately six Certified Crop Advisor credits are anticipated.

This is one of three clinics offered in the summer of 2002. An end of the season clinic on August 20 will include field crop diseases, late season insects, fall tillage implications. A precision farming clinic will also be held on September 4. Watch for more details.

4-H ATV Safety Training

On Wednesday July 10th, youth ATV drivers will have the opportunity to learn how to stay safe while driving their ATV’s. A member of the Nebraska State Patrol will talk about the laws that youth must be concerned about when driving an ATV. There will also be several hands-on stations giving ATV operators the opportunity to watch and learn the proper techniques for staying safe.

There is a $5 registration fee that will be collected at the training. Preregistration is necessary. 4-Hers who attended last year’s training are encouraged to participate in this year’s training, but will not receive the entire ATV safety gear package (e.g. helmet & flag). To register, call (402)624-8030, via fax at (402)624-8030, or write to NU ARDC CMDC Programs, 1071 County Road G, Ithaca, Neb. 68933. Information is on the World Wide Web at http://ardc.unl.edu/crop.htm.

First-time trainees will receive cool ATV gear!

Time to Spruce Up for the Fair!

The Annual Fairgrounds Clean-up Day will be held on Friday, July 19 from 3:00 - 6:00 p.m. at the Saunders County Fairgrounds in Wahoo.

All 4-H parents, leaders, and members are asked to help spruce up the fairgrounds before the fair gets underway. The cleanup day is an excellent community service project for all ages. So come help show your pride in the community by participating!

Dinner will be served after the clean-up is completed. For more information, please call (402)624-8030 or (800)529-8030.

Soybean Management Field Days

- Tips for competing in today’s challenging market
- Information & demonstrations are research-based and unbiased
- New knowledge & ideas
- Topics include: Managing Soil Water & Irrigation; Weed Control; Insect & Disease Interactions; & Stronger Links to Profitability

- 25 miles west of Oakland off of Hwy 32: August 13, 4-H tractor tours from 8:00-10:00 a.m. and workshops from 10:00-2:00 p.m.
- 2.5 miles west of Oakland off of Hwy 32: August 14, David Prothman Farm, Albion - Location.
- 4 miles south of the Hwy 14 & 91 intersection in Albion: August 15, Chad Dane Farm, Clay Center - Location.
- 3 miles west of Clay Center and 1 1/4 miles north: August 16, David Antholz Farm, Albion - Location.
- 3 miles west of the Hwy 50 & Burr Spur intersection south of Syracuse: August 17, Jeremy Kuklish Farm, Oakland - Location.
- 1.5 miles south of the Hwy 14 & 91 intersection in Albion: August 18, W. O. Schreder Farm, Nebr. 68963 - Location.
- 2.5 miles west of Oakland off of Hwy 32: August 20, Brandon Wolfe Farm, Albion - Location.

These one-day interactive events are sponsored by the Nebraska Soybean Board in cooperation with NU Cooperative Extension. The field days are rotated each year. This year’s locations include:

- August 13, Bob Moe Menden Farm, Oakland - Location.
- August 15, Chad Dane Farm, Clay Center - Location.
- August 16, David Antholz Farm, Albion - Location.
- August 17, Jeremy Kuklish Farm, Oakland - Location.
- August 18, W. O. Schreder Farm, Nebr. 68963 - Location.
- August 20, Brandon Wolfe Farm, Albion - Location.

Presenters include University of Nebraska specialists, educators, and industry consultants. For more information call 1-800-852-BEAN, 1-800-529-8030 or visit http://ardc.unl.edu/soydays.htm.

Calendar of Events

**JULY**

9 Composite Cattle Breeders Association Tour 8:00-5:00
10 Unit Managers Meeting 1:00-3:00
14 4-H ATV Safety Day (Fairgrounds in Wahoo) 8:30-1:00
12 Fair Superintendents 6:30
15 Livestock Assoc Twilight Tour 5:00-12:00
16 Mid-Summer Crop Management Diagnostic Clinic 7:45-4:30
16 Crop Production Field Day 7:00-5:00
19 Faiegrounds Clean-Up Day 3:00-5:00 (Fairgrounds in Wahoo)
20 Golf Challenge 2002 8:00 a.m. (Hillcrest Golf Club - Wahoo)
25-27 BeeKeepers Conference 8:00-5:00
27-8/1 Saunders Co. Fair - (Fairgrounds in Wahoo)

**AUGUST**

1 Central States Seed Conference Tour 1:00-2:00
14 Unit Managers Meeting 1:00-3:00
20 Late Season CropManagement Diagnostic Clinic 8:00-5:00

**SEPTEMBER**

4 Precision Farming Crop Management Diagnostic Clinic 8:00-5:00
11 Unit Managers Meeting 1:00-3:00
16 Saunders County Extension Board Meeting 7:00-10:00

Summer Employees at the ARDC

Matt Burke, Mead - ARDC
Eric Derson, Mead - Horticulture/Turf
Jake Hull, Facilities - Swine
Zac Hull, Swine - Swine
Jeremy Kuklish, Scottsbluff - Biological Systems Engineering
Tim Laudenback, Wahoo - Entomology
Bob Murray, Mead - Horticulture/Turf
Tim Niegley, Ithaca - Agronomy
Shawn Nison, Mead - Horticulture/Turf
Austin Schweitzer, Millford - Cow/Calf
Jeff Siebels, Gretna - Farm Operations
Nell Urban, Wahoo - Entomology
Brandon Wolfe, Mead - Fire Shop

2002 University Service Awards

Each year a new group of employees celebrate a “notable” anniversary of employment with the University of Nebraska. The following employees were recognized for the noted number of years of service at the University of Nebraska. Congratulations and appreciation is extended to the following employees reaching their respective anniversaries in 2002.

- Gene Andersen (Dairy) - 5 years
- Brian Lesmen (Facilities) - 5 years
- Ruby Urban (ARDC) - 10 years
- Jon Duncan (ARDC) - 15 years
- Jeff Perkins (Swine) - 20 years
- Bruce Bolander (Forestry) - 25 years
- Kent Thoman (Farm Operations) - 25 years
- Don McClure (Sheep) - 30 years
- Dick Meyer (Feedmill) - 30 years
- Dave Werner (Farm Operations) - 30 years
- Dave Andersen (Facilities) - 35 years

2002 University Service Awards
**Special Report**

**July/August 2002**

**M.E.A.D.**

Making Education in Agriculture Different

The students are using this time for extended learning opportunities relative to their interests within the magnet school. In this issue, we feature two of the four M.E.A.D. Magnet School students that are working and learning at the ARDC for the summer. Read the firsthand accounts of what Brandon Wolfe and Matt Burke are doing and hope to learn from their experiences at the ARDC.

**Learning at the Fire Shop**

by Brandon Wolfe, Mead Magnet School Student

Next year I will be a senior at Mead High School. I am working for the University of Nebraska this summer. I work in the Nebraska Forestry Service, Fire Shop. I went on a tour of the ARDC and I thought that this division would be a great area to work in. So I applied for a job at the fire shop. I had an interview a few weeks later to see how much experience I had working in the mechanical field. I started working at the fire shop once school got out. I will be working here for the remainder of the summer. At the Fire Shop I do general service to the vehicles in the shop. I also help the other guys with the vehicle that they are working on. By the end of the summer I hope to be able to do more work on my own vehicle at home and have a better understanding of mechanics.

**Gaining Insight on Computers**

by Matthew Burke, Mead Magnet School Student

The job that I am doing really teaches me what it is like if I went into a field of computers and did this for a living. I find it to be very fun at times, but I’m thinking over if I really want to go into the computer field. If I do go into that field, I’m going to try to get into the University of Seattle Washington to get my computer science and graphic design degree. I also help the people there if they have any questions about their computer.

**UPDATES....**

Our next issue will feature two more Mead Magnet School students performing summer work experiences at the ARDC.

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**2004 4-H Pre-Fair Events**

**July 27**

8:30 a.m.
- 4-H Dog Show - Open Air Pavilion

9:30 a.m.
- Presentation Day - Demonstrations/Illustrated Talks/Thater Arts Productions - 4-H Bldg

**Monday, July 29**

8:30 a.m.
- Fashion Revue - Judging - 4-H Building

Interview Judging - Clothing II, Challenging Patterns and Challenging Fabrics - 4-H Building

6:00 p.m.
- 4-H Swimming Sports Competition - Gayle Hattan Pavilion

**Tuesday, July 30**

9:00 a.m.
- Open to All Livestock Entries (Beef, Dairy, Sheep, Swine, Goats, Poultry, Rabbits)

9:00 a.m.
- 4-H Horse Show - Judging - Hatter Classes - Showmanship - Rodeo Arena

1:00 p.m.
- Check in 4-H Rabbit and Poultry - Poultry/Rabbit Barn

1:00 p.m.
- 4-H Horse Show - Performances - Walk, Trot, Pleasure

**Wednesday, July 31**

8:00 a.m.
- Weigh-in & Ultrasound - Swine Entries - Swine Barn

8:00 a.m.
- ATV Safety Training - 4-H Rabbit and Poultry - 4-H Rabbit Barn

8:00 a.m.
- Pork Producers Breakfast - 4-H Rabbit Barn

9:00 a.m.
- 4-H Rabbit Show - Judging (or immediately following Sheep Show)

9:00 a.m.
- 4-H Rabbit Show - Judging (or immediately following ATV) - 4-H Rabbit Barn

11:00 a.m.
- 4-H Rabbit Show - Judging (or half-hour following Swine Show)

5:00 p.m.
- 4-H Building Open to the Public

**Thursday, August 1**

8:30 a.m.
- 4-H Sheep Lead Class - Gayle Hattan Pavilion

9:00 a.m.
- 4-H Building Open to the Public

9:00 a.m.
- 4-H Sheep Show - Judging - Breeching & Marketing - Gayle Hattan Pavilion

(9:15 a.m. after conclusion of Lead Class)

12:00 p.m.
- Critique Judging - 4-H Poultry - Small Animal Auditing

2:00 p.m.
- 4-H Meat, Dairy, Poultry & Goat Show - Gayle Hattan Pavilion

(2:30 p.m. after conclusion of Small Pet Show)

6:00 p.m.
- Saunders County Fair Parade - Downtown Wahoo

**Friday, August 2**

9:00 a.m.
- 4-H & BFA Beef Show - Judging - Breeching & Marketing - Gayle Hattan Pavilion

9:00 a.m.
- 4-H Building Open to the Public

9:00 a.m.
- 4-H Small Pet Show - Open Air Auditorium

10:00 a.m.
- Closer Kids Show (or after Small Pet Show)

12:00 p.m.
- 4-H Dairy Show - Gayle Hattan Pavilion

(12:15 p.m. after Ultrasound & Endurance)

5:00 p.m.
- 4-H Steak Fry - 4-H Building

**Saturday, August 3**

8:30 a.m.
- 4-H Swine Show - Judging - Gayle Hattan Pavilion

9 a.m.
- 4-H Building Open to the Public

9:00 a.m.
- 4-H Swine Show - Judging - Gayle Hattan Pavilion

10:00 a.m.
- 4-H Rabbit Show - Judging - Open Air Auditorium

12:00 p.m.
- 4-H Dairy Show - Gayle Hattan Pavilion

(12:15 p.m. after Ultrasound & Endurance)

7:00 p.m.
- Parade of Champions - Rodeo Arena

8:00 p.m.
- Public Fashion Revue - Open Air Auditorium

**Sunday, August 4**

8:00 a.m.
- Released all 4-H & FFA Livestock, rabbits and poultry

8:00 a.m.
- Livestock Sales in Livestock Sale - (subject to change - contact Swine Supp)

11:30 a.m.
- Check in cats

12:30 p.m.
- 4-H Cat Show - Open Air Auditorium

4:00 p.m.
- 4-H & BFA Beef Show - Gayle Hattan Pavilion

4:00 p.m.
- 4-H Leader Recognition - Gayle Hattan Pavilion

5:00 p.m.
- Livestock Sale - Gayle Hattan Pavilion

5:00 p.m.
- 4-H Building Open to the Public

**OPEN CLASS CHANGES!!!**

There have been many changes this year to the Open Class Division.

**PLEASE READ CAREFULLY**

- Adult entries will be displayed in the Norma Kaan Open Class Building.
- Youth entries will be displayed in the School Building.
- Premiums will be given to youth entries only.
- Each entrant may enter a maximum of 5 items in the Open Class Division. All entries must be completed.
- For example: you may enter 5 pictures and 5 other items. The class number and premium books have now been eliminated.
- There is no youth division.
- Thank you for your understanding of the changes and we hope to see your entries at the fair!!