Worth County’s extension history lives today! The 4-H and Youth Program, along with all program areas, remain a “Pride Point” for our extension council and staff.

Throughout the year, MU Extension specialists deliver programs on a variety of subject areas. This report shares information relevant to selected programs that have been presented to Worth County residents during 2012.

The citizens of Worth County and the extension staff recognize that youth engagement supported by the adults in any organization is a necessary component for sustainability. Both adults and youth participate in University of Missouri Extension programs and volunteer in Worth County program areas. The youth pictured below volunteered in a Worth County Fairgrounds Work Day and painted tables that are used by citizens who visit the facility.
December 2012

Dear County Commissioners and Worth County Residents:

This 2012 annual report has been prepared for Worth County Extension by our staff and our associates from across northwest Missouri who have provided programming and contacts to our citizens on a daily basis.

The brief summaries in this report explain how many lives have been touched by University of Missouri Extension programming and the sharing of research-based printed materials throughout the year. In this report, these articles from program specialists and associates highlight a few examples of the many contacts that have been made by those who have serviced our county.

As with all public educational systems, the success of the institution is determined by those who serve the citizens of a community. Worth County Extension values the support of those committed to helping others learn from relevant, reliable and researched information provided in the extension programs throughout the year. The office staff and volunteers who assist with these programs are invaluable assets to MU Extension’s programming successes.

The Worth County Extension Council appreciates the support provided by the county commissioners, community volunteers and extension staff from across the area.

Sincerely,

Jerry Baker
Jerry Baker
County Program Director

David Hunt
David Hunt
County Council Chair
December 2012

Dear County Commissioners and Associated Friends of MU Extension:

At MU Extension, we know that citizens want their taxpayer-supported institutions to be responsive to their needs. Our distinct land-grant mission is to provide relevant, reliable and responsive education that improves Missourians’ lives, communities and the economy. We fulfill that mission by providing access to many research-based resources of the University of Missouri, in partnership with local and statewide organizations and groups.

Funded through the support of federal, state and county government; grants and contracts; fees for services; and private gifts, MU Extension leverages every dollar received to create expanded educational opportunities. Every dollar appropriated from county government is leveraged with $6 to create a significant return on investment.

MU Extension creates value for citizens – including those who do not participate directly in its programs. For example:

• The MU Extension Fire and Rescue Training Institute teaches volunteer and career firefighters how to handle or mitigate fires and disasters, resulting in safer firefighters, citizens and communities. In FY2012, MU FRTI trained 17,096 fire and emergency service personnel through 217,000 instructional hours of training. Enrollees were from all of Missouri’s 114 counties.

• This summer’s severe drought put MU Extension faculty in an active leadership role in helping Missourians deal with the crisis. MU Extension developed educational materials and programs and provided technical assistance for homeowners, businesses and the agricultural community. Social media, including Facebook, YouTube and websites, were used to inform citizens on such topics as animal nutrition, including nitrate poisoning; heat-related disabilities; government programs; wildfires; and more. Extension faculty also worked with Soil and Water Conservation Districts to implement drought cost-share practices, which allowed more than 11,000 landowners to apply for state assistance to access adequate water supplies for livestock and crop production.

These are just two examples of MU Extension’s public value impact. I’m sure you will find many other examples in your local community.

I want to thank you for your support of MU Extension as a critical team player in your locale. Your ideas for improving our partnership are always welcome.

Sincerely,

Michael D. Ouart
Vice Provost and Director

University of Missouri, Lincoln University, U.S. Department of Agriculture and Local Extension Councils Cooperating

EQUAL OPPORTUNITY/ADA INSTITUTIONS
4-H Program

Karla Parman, 4-H Youth Program Youth Program Associate—Annette Deering, 4-H Youth Specialist

WORTH COUNTY 4-H

Worth County 4-H had 40 members enrolled in four organized clubs for the 2012 program year. Leaders and clubs were: Gidget Funk, Allendale Arrows; Sherri Runde, Oxford Owls; Miranda Lyle, Sheridan Shamrocks; and Glenda Craven, West Fork Boosters.

Although each club functions independently, all work together on various projects throughout the year including having members serve on the Worth County 4-H Council that meets four times each year.

Communities reap long-term benefits by supporting 4-H programs. Youth engaged in the programs are 60 percent more likely to vote and to volunteer and contribute to their community than their non-engaged peers. One of every four Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2012.

Worth County 4-H Council Officers for 2012 are:
President: Jillian Hardy, West Fork Boosters
Vice President: Navada Hoff, Sheridan Shamrocks
Secretary: Carrissa Runde, Oxford Owls
Treasurer: Jacob Wimer, Allendale Arrows

4-H Highlights

Members of West Fork Boosters and Allendale Arrows held a work day on June 9th at the Worth County Fairgrounds. The clubs repaired and painted picnic tables and bleachers as a community service project. The Worth County 4-H Council donated the money for the project from funds they had received from a Monsanto grant.

A new sign was donated to the Worth County Fairgrounds Association on August 1, 2012. The sign was purchased by the Worth County 4-H Council and accepted by Julie Tracy, secretary/treasurer of the organization. Each club had a different money-making project for donations for the sign.

Achievement Day was held on Monday, July 30, 2012. Thirty-two members participated with 85 projects evaluated and awarded blue, red and white ribbons. Twenty-four members participated in the State Fair held in Sedalia, Missouri. Clover Kids received participation ribbons for 28 projects that were exhibited. After Achievement Day, several members had their projects show cased in the Worth County Senior Citizens Center in Grant City. This week long display allowed members of the community to see how much work the 4-H members do on projects throughout the year.

The 4-H and FFA Junior Livestock Show was held on July 20, 2012 at the Worth County Fairgrounds Building in Grant City. Sheep, swine and cattle were shown during the morning and afternoon sessions. Members competed in various classes for blue and red ribbons. Plaques were awarded for each species as well as for Junior and Senior Showmanship. 17 regular members participated in the show and “premium only” sale.

4-H Recognition was held for all 4-H members and their families on September 30, 2012. Members and their families enjoyed skating at the Grant City Rink. After skating and snacks a short program was held which allowed all old members to receive their recognition pins for the year. New members joining for the 2012/2013 year received a 4-H pencil and a 4-H cling. 62 people attended the skating party and recognition program.

Karla Parman, Worth County Youth Program Associate, is making poison prevention information available to residents and their children in Worth County. The program involves hands on demonstration of common household items and potential poison look-a-likes (for instance Windex Window Cleaner and Scope Mouthwash). Participants take a quiz to see if they are able to identify safe and non safe items.

Parman presented a poison look-a-like program for Head Start parents and students in March. The poison program can be modified for adults or children, depending on the audience.

Camp Mozingo was well attended this year by Worth County 4-H members. This is the second year for the new camp which features fishing, crafts, character education and camping skills. Ten members from Worth Co. 4-H attended the camp. Karla Parman, Worth County YPA, took the all ten of her campers to the Nodaway County Senior Center during camp in honor of Senior Citizen’s Month. The campers demonstrated how to make flower pins and then went to Golden Living Nursing Home to hand out the pens to residents.

Worth County 4-H and 4-H/FFA Livestock Show photos are on the last pages of this document.
**Family Nutrition Education Program**
**Reaching low-income children and families with nutrition education**

<table>
<thead>
<tr>
<th>Who are the Learners?</th>
<th>What school districts or agencies were served?</th>
<th>What did they learn?</th>
<th>How does this program benefit Worth County and Missouri?</th>
</tr>
</thead>
</table>
| Family Nutrition Education Program (FNEP) provides information on nutrition, food safety, and physical activity for lifelong health and fitness. Forty-five pre-school and elementary students and fifty-seven adults participated in FNEP in Worth County. | The Worth County Head Start and the Worth County Elementary Kindergarten, First and Second Grades participated in the Show-Me Nutrition programming. Classroom teachers and Food Nutrition Education Program staff worked with students and adults participating in the MyPlate healthy food program. | Evaluation data collected across the entire state reflects the positive impacts that occur in every county with FNEP. The following are students’ changes reported by teachers after FNEP classes.  
- 99% reported one or more changes  
- 90% reported students are more aware of nutrition  
- 65% make healthier meal and/or snack choices  
- 45% eat breakfast more often  
- 77% are more willing to try new foods  
- 83% improved hand washing  
- 37% improved food safety other than hand washing  
- 62% increased physical activity | The Family Nutrition Education Program brought $10,420,125.00 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 102 food stamp recipients and food stamp eligible citizens of Worth County. Participants in FNEP in Worth County who practice healthy eating and activity behaviors are more likely to enjoy a high quality of life as an adult and into old age. A healthy labor force is critical to attracting and keeping jobs in Missouri. In addition, this important programming effort serves to reduce healthcare costs over the participant’s lifetime, saving taxpayers money in reduced public healthcare benefits and insurance premiums. |
Pesticide Applicator and AgUpdate Program:
Twelve agricultural producers attended the Private Pesticide Applicator Training (PAT) and AgUpdate presentations. This MU Extension training enables agricultural producers to receive or renew their Missouri PAT license which allows them to purchase and apply restricted use pesticides. One of the most important topics in proper pesticide application is protecting the applicator from negative effects of pesticides by properly caring for the individual. A black light demonstration was used to show attendees how chemicals can easily be transferred from hands to other parts of the body. In the AgUpdate presentations, MU Extension agriculture specialists spoke on various topics.

Agronomy specialist Heather Benedict presented on nematodes or microscopic worms that feed on corn and soybean roots. Soybean cyst nematodes were noted as the most common type in Missouri and may be responsible for up to 35% yield loss without a visible effect on the beans. After this presentation, all participants indicated they were more likely to test for nematodes.

Benedict also explained herbicide resistance in weeds and how to effectively treat those plants by using a pre-emergent herbicide and testing water quality. All of the participants reported they would use one or both of the solutions in order to prevent herbicide resistance in weeds. This practice helps insure that herbicides are not misused or overused and affect the environment which we all depend on.

Livestock specialist Shawn Deering’s presentation focused on various animal confinement systems. Deering reported that with the decrease in pasture and hay ground as a result of high grain prices, producers would need to understand how to use confinement systems more profitably.

Agricultural economist Randa Doty addressed current cash rental rates in Missouri. Doty helped producers understand what they could expect to pay when renting crop land vs. pasture or hay ground.

Horticulture specialist Tom Fowler spoke about pests which affect the trees in the pastures. Some of the pests such as the emerald ash borer and the thousand canker disease in walnut trees drew considerable attention and many questions were asked by the participants.

These presentations helped producers gain more than just their pesticide applicator’s license. One of the producers reported, “I have probably been to a half a dozen of those pesticide trainings and AgUpdate trainings, and this one was by far the best. It was really informative.”

Student Farm Field Day:
At the Worth County Soil and Water District Annual Duckworth Farm Field Day, 80 fourth, fifth and sixth grade students in the local school system learned about the uses of animal products in everyday items, about “good and bad” insects.

University of Missouri Extension agronomy specialist Heather Benedict presented on beneficial insects as well as those that may present a problem to crops and people. Students were given containers they could use to collect insects during their noon lunch period. The students then compared the types of insects they found and asked questions about their findings. The session provided students with information to discuss with their families. Many of the students remembered the information from previous years’ attendance at the field day. One parent said, “My son came home and told me all about the stinkbug he learned about. He kept finding bugs to see if they were the bad kind.”

In this training, the students learned all insects are not necessarily bad and that while some insects may be a nuisance inside the house, they may have a valuable role in the fields. This activity also helps the children be more responsible when a family member is using pesticides to control insects.
Fence and Boundary Law Issues

Joe Koenen
Agriculture Business Specialist

Missouri’s Fence and Boundary Law remains one of our more confusing state laws since there are 2 different ones in the state. A large influx of recreational land owners and those without a direct Ag connection have made this issue even more of a hot button one here in Missouri. The state fence law can be difficult to interpret and few if any attorneys and judges keep up on rural legal issues. Fence and boundary law education remains a critical area of need and is requested numerous times throughout the year.

One hundred nineteen (119) individuals attended programs discussing Missouri’s fence and boundary laws during 2012. Fifteen Worth County residents participated in the Fence Law programs. Additionally, individual questions are responded to from numerous counties in Missouri. Joe Koenen, Agricultural Business Specialist, coordinates the sessions with support and assistance from many other faculty statewide. In 2012 the first program done via Adobe Connect was done successfully. This allows locations without ITV access to participate.

When you support MU Extension’s Fence Law program, landowners have a better understanding of a law that critically impacts them. It helps them avoid conflicts with their neighbors and costly legal fees. This helps Missouri by lessening court overcrowding and allows citizens to make informed, educated decisions based on facts and not on beliefs.

Evaluations of this program indicate over 90% that attend now know there is more than 1 fence law in Missouri (an especially critical fact for the 16 local option counties in our state) and around 87% know which law covers the land they own.

Comments made by attendees included “lots of useful information” and “Joe was very informative and easy to understand”. Extension is a trusted source of unbiased information for this and a critical resource. Although this program has been offered for many years, it continues to be one of our most requested and interest will remain.

____________________________________
Worth County’s fence law is online at
Worth County Missouri
Ordinances and Resolution

http://www.worthcounty.us/Ordinances.html
## Entrepreneurship, Agri-tourism and Tourism Program

<table>
<thead>
<tr>
<th>What was the program?</th>
<th>Who was the audience?</th>
<th>What did They learn?</th>
<th>What opportunities were reviewed as possible businesses?</th>
<th>How did this program make communities better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching youth and adults how to plan for an emerging business opportunity created financial opportunities for individuals and communities.</td>
<td>More than 150 high school students and adults from throughout many northwest Missouri counties attended the presentations.</td>
<td>There were three things the students and adults indicated were important to them. “Having access to one or more research-based models for developing a basic business plan of operation was helpful.”</td>
<td>More than 15 business prototypes were reviewed as potential local opportunities. Specific types of businesses reviewed included selling homegrown produce in the local and commercial market places, marketing hand-made commodities, and collaborating within a region to jointly market products and businesses that increase the number of visitors to the area.</td>
<td>By attending a University of Missouri Extension program on Entrepreneurship, Agri-tourism and Tourism, participants learn how new youth entrepreneur projects and communities can work together to attract more people to the area. The program provided immediate access to research-based information on how to begin a business venture; to better understand how it is possible to partner with current businesses in the start-up of a local business; and, the general tourism asset mapping process that helps businesses and communities increase their marketing strategies.</td>
</tr>
<tr>
<td>The program focused on entrepreneurship including farmers markets, several types of agri-tourism ventures and general tourism developments.</td>
<td>Following the programs, five students, one adult and two community organizations asked for more information.</td>
<td>“Learning where and how to apply for a business license was appreciated and appears to be an easier process than expected.” “Knowing how to assess specific community assets will benefit our organization and help us move forward in creating a tourism based program.”</td>
<td></td>
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</tr>
<tr>
<td>Knowing how to access research-based information needed in the decision-making process for starting an entrepreneurial project or tourism type business was explained and provided in printed formats.</td>
<td></td>
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</tbody>
</table>
# Agriculture—Livestock Education

## Education Plus Solutions for Farming Success

### Forage Production and Management

**Beef Production Systems**

<table>
<thead>
<tr>
<th>Number of Learners</th>
<th>Topic</th>
<th>What Did They Learn?</th>
<th>How Did Participants Benefit?</th>
<th>How Does This Work Make My Assigned Area and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>575</td>
<td>Beef Cattle Producers</td>
<td>Initial training and recertification for private pesticide applicators and update on current agricultural topics.</td>
<td>Applicators completed the legal requirements to obtain or renew their private pesticide applicators license. In addition, agriculture specialists provided updates on current topics in agronomy, agricultural business, horticulture, and beef cattle production.</td>
<td>In the rural areas of Missouri, a healthy agricultural community is the backbone of economic growth and sustainability. University of Missouri Extension events provide relevant, research based information that allows producers to make informed decisions. These decisions impact their financial bottom line and ultimately determine whether or not they stay in business.</td>
</tr>
<tr>
<td>250</td>
<td>FFA students</td>
<td>How to manage resources in a drought by rotational grazing, stockpiling tall fescue, forage testing, strategic supplementing, strategic culling, grazing and baling corn residue, proper silage making, and nitrate testing drought stressed forage supplies.</td>
<td>Industry leaders provided insight on the future of the beef industry and how important the production of high quality beef will be to the United States. Current herd health concerns and improvements in genetics were also discussed.</td>
<td>The average age of the farmer or livestock producer in the United States is continually increasing. The general population is becoming more and more removed from agriculture. Even though a student is enrolled in FFA, it does not mean that they have a farming background. By hosting events such as the Hundley-Whaley FFA day, we are exposing young people to agriculture, the University of Missouri System, and hopefully the resources and education that University of Missouri Extension can provide.</td>
</tr>
<tr>
<td>198</td>
<td>Private Pesticide Applicators</td>
<td></td>
<td></td>
<td>The current demand for high quality beef is significant. Globally, there is concern whether or not we can compete in the production of commodity type beef. University of Missouri Extension is trying to help producers position themselves to take advantage of a growing market.</td>
</tr>
<tr>
<td>197</td>
<td>Newsletter Subscribers</td>
<td></td>
<td></td>
<td>By assisting beef producers with forage management, ration formulation, genetic selection, and production goals, University of Missouri Extension Livestock Specialists are able to help cattlemen reduce input costs and improve returns.</td>
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<td></td>
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</table>

Producers have been educated on the best way to utilize corn stalks as an emergency feed.
Missouri Procurement Technical Assistance Program (PTAC)

The Missouri Procurement Technical Assistance Program (MO PTAC) is a federally funded non-profit in cooperation with the University of Missouri Extension, created to assist small businesses in the pursuit of federal, state and local government contracting opportunities. In short, the PTAC program helps small businesses navigate through the process of selling their products and services to government agencies. In existence since 1992, the Missouri PTAC and its counselors, work with small business owners throughout the state providing assistance with vendor registrations, small business certifications, locating contracting opportunities, bid preparation and post award assistance.

The Missouri PTAC program divides the state of Missouri into regions for the purpose of assigning client loads. The northwest Missouri region reflects that of the previous Extension NW Region and contains 15 counties. Clint Dougherty, the counselor responsible for the northwest region for PTAC, has been with the program for three years.

Outreach is a key component to the PTAC mission. The program continues to seek out economic development agencies, chambers of commerce, and other business development agencies, for the purpose of networking and reaching potential clients. Through this effort, Clint Dougherty met with Tammy Ueligger, Economic Development Coordinator for Worth County, and presented to the Worth County Extension Council on the benefits and impact of the PTAC program.

The result of these presentations was the linking of three Worth County businesses learning about PTAC and becoming educated on how to do business with government agencies.

For fiscal year 2012, which began August 1, 2011 and concluded July 31, 2012, the northwest region had an active client base of 105 businesses. Of those 105 businesses serviced by the regional PTAC office, 62 were new businesses for the program. A total of 275 follow up sessions were conducted with these businesses.

The result of the efforts by the PTAC program in the northwest region was nearly $2,000,000 in government contracts being awarded to area businesses. Since its inception, the Missouri PTAC program as a whole has assisted Missouri businesses in obtaining more than $2.8 billion dollars in government contracts which accounts for more than 24,000 contracts and 56,000 jobs created or retained.

How MO PTAC can help

MO PTAC counselors can help clients and prospective government suppliers:

- **Navigate** lengthy and complex guidelines concerning such aspects of your business as: financial and accounting capability; ability to comply with delivery and performance schedules; integrity and ethics; audit practices; technical skills; facilities standards; and the ability to meet product or service standards.

- **Research** government procurement histories to determine past procurement activity by a specific government agency. Such research can help you determine if your pricing is competitive in relation to previous contracts. It can also help you identify volume requirements, previous suppliers and possible teaming opportunities.

- **Prepare bids**; understand forms, regulations and specifications; establish a quality assurance program; conform to packing, transportation and delivery requirements; and evaluate financial capabilities and accounting system adequacy.

- **Access** MO PTAC's computerized bid matching data bank. You can receive daily notifications of bidding opportunities advertised in FedBizOpps (formerly the Commerce Business Daily) and unadvertised bid opportunities under $25,000 from major defense buying centers. Many state and local government bid requests are also provided.

- **Complete registrations and certifications**. Register with every governmental agency that could be a potential buyer of your products or services. Many have special certifications or registrations. For example, to do business with virtually every federal government agency you must complete an annual Online Representations and Certifications Application (ORCA).
2012 Worth County Extension
Courthouse
Grant City, MO 64456
Phone: 660-564-3363
Fax: 660-564-3364
Email: worthco@missouri.edu
Web: http://extension.missouri.edu/worth

Office Staff:
Jerry Baker, County Program Director
Karla Parman, 4-H Youth Program Associate
Angela Larison, Secretary/Office Manager

Specialist and Associates Assigned to Worth County:
Karma Metzgar, Regional Director
Jerry Baker, Community Development
Heather Benedict, Agronomy
Meridith Berry, Information Technology
James Crawford, Natural Resource Engineer
Annette Deering, 4-H Youth
Shawn Deering, Livestock
Randa Doty, Agriculture Business
Clint Dougherty, Missouri Procurement Technical Assistance Center
Thomas Fowler, Horticulture
Connie Neal, Housing and Environmental Design
Rebecca Travnichek, Family Financial Education
Jessica Trussell, Human Development and Family Studies
Connie Griffith, Nutrition Program Associate

2012 Worth County Extension Budget

<table>
<thead>
<tr>
<th>INCOME</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>County Commissioners</td>
<td>$6,600.00</td>
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<tr>
<td>Rent</td>
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<tr>
<td>Resale items/soil tests</td>
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<tr>
<td>Postage and Internet Connection Income</td>
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<tr>
<td>Investment Income Transfers</td>
<td>$1,199.30</td>
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<tr>
<td>Fund Reallocation</td>
<td>$3,948.26</td>
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<td><strong>TOTAL</strong></td>
<td>13,622.63</td>
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</table>

<table>
<thead>
<tr>
<th>EXPENSES</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel Services/Contracts</td>
<td>9,824.04</td>
</tr>
<tr>
<td>Travel/Postage/Phone/Advertising</td>
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<tr>
<td>Publishing</td>
<td>$123.30</td>
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<tr>
<td>Supplies/Services</td>
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<tr>
<td>Other Center Operations</td>
<td>$200.00</td>
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<tr>
<td>Extension Council/ Soil Tests/ Repairs and Miscellaneous</td>
<td>$746.25</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$13,812.83</td>
</tr>
<tr>
<td>Net Income</td>
<td>(-$190.20)</td>
</tr>
</tbody>
</table>

**The Worth County Extension Council also has an savings account (Expendable Gift Account) with University of Missouri Extension, Columbia, that has a December 31, 2012 cash value of $49,532.44.

Federal and state funds provide salaries and benefits for professional staff assigned to the county, expenses for professional development, official mail, and cost sharing on computer technology. The University also provides educational materials and faculty support for extension programs.
The annual Worth County 4-H and FFA Livestock Show is a major event for the youth in the county. The event attracts an audience from across generations and the surrounding area. Multiple recognition awards are presented in each classification event.