SHAPING GRUNDY COUNTY’S FUTURE
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Dear County Commissioners and Associated Friends of MU Extension:

As we enter 2014, we at University of Missouri Extension celebrate our 100-year partnership with you, with the State of Missouri and with the federal government. Through the Smith-Lever Act of 1914, the Cooperative Extension Service was established to provide practical application of research knowledge “to persons not attending or resident in said colleges in the several communities.” Over the years, the mission to bring you relevant, reliable and responsive education to improve lives and local economies remains the same. Yet, we also have changed to help you meet emerging issues and to take advantage of emerging opportunities.

Every day, MU Extension helps create value for citizens. For example:

- Throughout the state, MU Extension provides information to help address issues and opportunities related to Missouri’s economic infrastructure, public services, economic development, jobs and educational access. Counseling more than 3,000 business clients in FY12 resulted in 9,328 new jobs, sales increases of $188 million, $213 million in new business financing, and government contracts of more than $195 million.

- Our state and nation are in need of workers who are highly proficient in science, technology, engineering and math (STEM). Research has shown that 4-H members develop an increased interest in science three times higher than their non-peers. Both non-traditional activities, such as robotics, and more traditional activities, such as livestock judging and food preparation, are doorways to science-related careers.

- Livestock production accounts for about 53 percent of the state’s agricultural receipts. MU Extension’s Tier Two Show-Me-Select Replacement Heifer Program, which improves reproductive efficiency of beef herds, has garnered producers $237 to $357 per heifer, depending on breeding protocol followed. Statewide economic impact of the program has exceeded $65 million.

These are just two examples of MU Extension’s impact – made possible through your support of MU Extension in your community. I look forward to our continuing partnership, and as always, your ideas for improving our partnership are welcome.

Sincerely,

Michael D. Ouart  
Vice Provost and Director

University of Missouri, Lincoln University, U.S. Department of Agriculture and Local Extension Councils Cooperating  
EQUALLY OPPORTUNITY/ADA INSTITUTIONS
January 2014

Greetings Everyone,

The Extension Council, office staff, county program director and I would like to thank you for your continued generous support of the University of Missouri Extension's programming in Grundy County. Due to our partnership we have been able to bring more programming and activities that address the needs and priorities to the people of this county. Without your help, we could not have done the great work documented in this report. Thank you!

With your support in 2013, we were able to bring in more programming and specialists. The Extension Day celebration in May, held on the courthouse lawn, was an opportunity for Grundy County residents to meet some of the state and regional specialists who serve the Northwest Region as well as local entrepreneurs and artisans. The 2013 Ag Update brought in agriculture specialists from around the region to teach pesticide applicator training and updates on various farming and equipment methods. Throughout the year, specialists also gave programs in financial education, horticulture, nutrition, health, energy conservation, healthy homes, family relationships and more. We will be able to repeat these programs for 2014 due to your continued support of Extension.

In January of 2013, due to a regional realignment, 4 more counties were added to the Northwest Region. In June, Regional Director, Karma Metzgar announced some additional changes for Grundy county as Extension moves forward in implementing some of these changes. Meredith Berry has relocated to Grundy County as the Family Financial Education Specialist. Plans are being made to add an FNEP (Food and Nutrition Education Program) Specialist in 2014 when federal funding will allow. Connie Neal is relocating to Nodaway County but will remain as co-CPD until the summer of 2014.

Grundy County continues to host the regional 4-H camp at Camp Crowder. Grundy County 4-H clubs offer long-term educational experiences as well as create opportunities for young people to be valued, contributing members of their community.

Looking forward to the coming year of 2014, we will continue implementing our new county four-year plan which has pointed out the programming needs and concerns of the citizens of the county. With your increased support, we will be able to do more needed programs and bring in the specialists to help do that programming.

If you have any needs, suggestions or want to know more about University of Missouri Extension, please feel free to contact the Council or staff at 660-359-4040. Sincerely,

[Signatures]

County Council Chair  Extension Council Secretary  County Program Director

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

University of Missouri Extension does not discriminate on the basis of race, color, national origin, sex, sexual orientation, religion, age, disability or status as a Vietnam-era veteran in employment or programs.
The Grundy County Extension Council appreciates the continued support of Extension Programs by the Grundy County Commissioners. (Pictured left to right) Joe Brinser, 2nd district commissioner, Rick Hull, presiding commissioner, Gene Wyant, 1st district commissioner.

Grundy County Clerk, Betty Spickard swears in new Grundy County Extension Council members.
<table>
<thead>
<tr>
<th>Grundy County Extension Council Members (an elected council):</th>
<th>Duties and Responsibilities of Council Members</th>
<th>Extension Faculty and Staff Based in Grundy County</th>
<th>Additional Faculty and Staff Serving Grundy County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kristi Urich Chair Regional Council Representative</td>
<td>Understand and advocate for the goals, aspirations and concerns of people of Grundy County.</td>
<td>Meridith Berry Family Financial Education Specialist</td>
<td>Jim Crawford Natural Resource Engineer</td>
</tr>
<tr>
<td>Steve Maxey Vice-Chair Regional Council Representative</td>
<td>Provide regular, thoughtful participation in developing educational programs to assist people in reaching their goals.</td>
<td>Connie Neal Housing and Environmental Design Specialist</td>
<td>Shawn Deering Livestock Engineer</td>
</tr>
<tr>
<td>Ruth Ann Shipps Secretary</td>
<td>Be an advocate for access to education that empowers people.</td>
<td>Lisa Delameter 4-H Youth Program Associate</td>
<td>Heather Benedict Agronomy Specialist</td>
</tr>
<tr>
<td>Kathi Brewer Treasurer</td>
<td>Learn about the wealth of resources provided by MU and the University of Missouri System.</td>
<td>Vickie Pash Office Manager</td>
<td>Tim Baker Horticulture Specialist</td>
</tr>
<tr>
<td>Joe Brinser</td>
<td>Assist with council elections. Work with MU Extension faculty and others to generate support from outside resources.</td>
<td></td>
<td>Janet Hackert Nutrition and Health Education Specialist</td>
</tr>
<tr>
<td>Larry Christy</td>
<td>Secure and administer the county’s share of funding for MU Extension programming in collaboration with the county commission.</td>
<td></td>
<td>Debbie Herrold Nutrition Program Associate</td>
</tr>
<tr>
<td>Suzanne Gilhully</td>
<td>Advise and consult with University administration concerning the assignment of MU Extension faculty to Grundy County.</td>
<td></td>
<td>Tracy Minnis Nutrition Program Associate</td>
</tr>
<tr>
<td>Sarah Lowrey</td>
<td>Attend council meetings regularly and participate in training opportunities.</td>
<td></td>
<td>Kevin Hansen Ag Business Specialist</td>
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<tr>
<td>Jeff Jarrett</td>
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<td>Jessica Trussell Human Development Specialist</td>
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<td>Becky Hall</td>
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<td>Shawn Murphy 4-H Youth Development Specialist</td>
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<td>Trish Wendt</td>
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<td>Rebecca Travnichek Family Financial Education Specialist</td>
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<td>Bob Witten</td>
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<td>John McCullough</td>
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<td>Jacob Black</td>
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Bringing the University of Missouri to the people of Grundy County through research-based educational programs.

The Grundy County University of Missouri Extension Council is a full partner with Missouri’s land-grant universities to deliver high quality education and research-based information that helps people solve real world problems and take advantage of opportunities. Council members:

- Work with extension specialists to provide the county with quality educational programs
- Manage finances of local extension operations
- Provide personnel to carry out extension activities
- Elect and organize the local extension council
## MEDIA ACTIVITY IN GRUNDY COUNTY

<table>
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<tr>
<th>Types of Media Used</th>
<th>Geographic Reach</th>
<th>Topics Presented by Specialists</th>
</tr>
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<tbody>
<tr>
<td>Extension Connection Radio Program</td>
<td>Grundy County - 50,000 listeners</td>
<td>Topics presented by 19 area specialists include issues regarding health and nutrition, agronomy, ag business, horticulture, livestock, community development, housing, environmental, energy, finance, consumer economics, human development, natural resources, technology and 4-H.</td>
</tr>
<tr>
<td>Northwest Missouri Extension Newsletter</td>
<td>207 families</td>
<td>The Grundy County Extension Council hosted a special Extension Day activity on the courthouse lawn. It featured area artisans and entrepreneurs with each having a booth to display their craft or business. The Grundy County Extension Council members, commissioners and two state specialists from campus attended. Participants were also treated to a cookout served by Grundy County Extension Council commissioners, and staff.</td>
</tr>
<tr>
<td>KTTN Radio interview, Republican Times newspaper and face-to-face</td>
<td>100 plus individuals attended the Extension Day activities</td>
<td></td>
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### Enjoying lunch on the courthouse lawn.

4-H Youth Program Associate, Lisa Delameter and Council Secretary, Ruth Ann Shipps serve Extension Day guests.

Local artisan and entrepreneur exhibits her craft.
Family Nutrition Education Program (FNEP) provides information on nutrition, food safety and physical activity for lifelong health and fitness. Five hundred and ninety-nine elementary students participated in FNEP in Grundy County.

<table>
<thead>
<tr>
<th>Number of Grundy County Learners</th>
<th>School Districts Served</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Programming Make Grundy County and Missouri Better</th>
</tr>
</thead>
</table>
| Family Nutrition Education Program (FNEP) | Programming occurred in the following schools:  
- Grundy R-V Elementary  
- Laredo R-VII Elementary  
- Pleasant View R-VI Elementary  
- Spickard R-II Elementary  
- Trenton R-IX Rissler Elementary | Evaluation data collected across the state reflect 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  
- 91% reported students are more aware of nutrition  
- 68% make healthier meal and/or snack choices  
- 49% eat breakfast more often  
- 82% are more willing to try new foods  
- 82% improved hand washing  
- 37% improved food safety other than hand washing  
- 65% increased physical activity | Nutrition Program Associates, Debbie Herrold and Traci Minnis, go into schools and interact with community members to help them make healthier choices and build healthy habits. | The Family Nutrition Program (FNP) brought $7,653,958.00 in federal funds to the state of Missouri. Participants in FNP in Grundy 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. This important programming effort serves to reduce health care costs over the participant’s lifetime, saving taxpayers money in reduced public health care benefits and insurance. |

Students showing Nutrition Program Associate, Tracy Minnis fruits they have tried or like to eat.
## Number of Grundy County Learners

16 community members participated in the two workshops for total contact time of 40 hours

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<tr>
<th>Topic</th>
<th>What Did They Learn?</th>
<th>How Did Participants Benefit?</th>
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</table>
| Canning basics; Boiling water canning | Participants learned why following USDA recommendations for canning is crucial to having a safely canned product. They also went to the kitchen, and gained hands-on experience preparing and canning salsa in a boiling water canner. | Participants received resources, including a copy of the *Seasonal and Simple* cookbook (MP909), to use when canning, freezing and dehydrating foods. Based on an exit survey, 100% of participants (16 of 16) improved their level of knowledge, skill or understanding by participating in this program. They also reported that they plan to do the following as a result of the program: Preserve food: 56% (9 of 16); Use tested recipes from a reliable source: 56% (9 of 16); Share food preservation information they learned: 38% (6 of 16); Update equipment: 31% (5 of 16). (Several in the class had already been canning/freezing prior to the class.) When asked what the most important thing they had learned was, participants reported:  
- How to dice produce.  
- The elevation of Trento (for proper processing times).  
- Use rubber gloves to cut up peppers.  
- Blanching can make a difference! | By following safe home food preservation methods, the individual participants, their families and the communities they share food with are at lesser risk of coming down with food-borne illness when eating the preserved food later. This can mean less illness in the community, and less loss of work hours because of food-borne illness. It also allows individuals and communities to use and preserve locally grown produce, making it more viable for growers to share or sell their produce locally. |
| Freezing and drying          | Participants learned the basics of freezing and dehydrating foods, prepared and froze green beans and tasted a variety of home-dried fruits and vegetables. They also had opportunity to get direct answers to their specific questions. | When asked what the most important thing they had learned was, participants reported:  
- How to dice produce.  
- The elevation of Trento (for proper processing times).  
- Use rubber gloves to cut up peppers.  
- Blanching can make a difference! | |

Participants practicing how tightly to close canning jar, as Hackert has shown them.

One participant had a great concern for the health of her young child. She explained that knowing how to dehydrate and/or freeze produce will allow her to take advantage of low-cost, local, fresh, nutritious produce and to preserve for use throughout the year. It also opened up windows of eating adventures for her son whose tastes change often. Another participant reported on her exit survey that, "I feel comfortable doing this on my own now that I understand."
### Stay Strong, Stay Healthy

- **84 sessions**
- **90 hours of learning**
- **477 total contacts**

**What Did They Learn?**
Stay Strong, Stay Healthy is a 10 week strength training program for middle-aged and older adults. The program is designed to increase aging adults’ access to a safe, structured, and effective strength training program. At each session a prescribed set of 8 upper and lower-body strengthening exercises are done. Participants are made to feel comfortable regardless of their current fitness level so they can safely participate and gradually build the strength beneficial to health.

**What Action Did They Take?**
Individuals who participated in both the pre-tests and post-tests in 2013, found the following:

- 100% improved in at least 2 of the 5 test areas
- 90% improved their flexibility
- 80% improved their endurance
- 100% increased their speed
- 10% improved their balance

**How Does This Work Make Grundy County and Missouri Better?**
When you support MU Extension’s Stay Strong, Stay Healthy program, participants will increase their physical activity and may improve strength, balance and flexibility, resulting in reduced risk for falls, better overall health and greater independence. These health benefits decrease the likelihood of a participant entering a nursing home, which costs on average $51,465 per year in Missouri. The money saved benefits the community by keeping more discretionary income in circulation locally. It also keeps people actively, independently contributing to society longer.

### Focus on Kids

- **4 Sessions**
- **10 hours of learning**
- **6 total contacts**

**What Did They Learn?**
These parents of children age 18 and younger attending the Focus on Kids class for divorcing parents overwhelmingly reported they were more knowledgeable about the effect of divorce on children and that the class provided them with tools to reduce their children’s stress and enhance their co-parenting together. Participants were from the following counties: Carroll, Daviess, Grundy, Harrison, Linn, Livingston, Putnam & Ray.

**What Action Did They Take?**
The participants reported the following:

- 100% plan to avoid arguing/fighting with their children’s other parent in front of the children
- 100% plan to avoid questioning their children about their other parent’s finances or relationships.
- 100% plan to avoid saying negative things about their children’s other parent in front of them.
- 100% agreed that the class should be required of all divorcing parents who have children.

**How Does This Work Make Grundy County and Missouri Better?**
When you support the Focus on Kids program the county and state benefit as parents are better able to meet the social and emotional needs of their children, reconfigured households are more stable, and both the children and parents have action solutions for reducing stress and building upon strengths.

1 *The MetLife Market Survey of Adult Day Services & Home Care Costs, 2011*
### AGRICULTURE – COMMERCIAL AND HOME HORTICULTURE

**EDUCATION FOR BETTER CROPS**

**Program Names:** Missouri Grown
Home Horticulture and Environment
Turfgrass Management/Green Industry

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**Horticulture Specialist**

Tim Baker

Serving Daviess, Grundy, Harrison, Mercer, Caldwell, Livingston, Ray, Carroll, Lafayette & Saline counties in northwest Missouri

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<table>
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<tr>
<th>Number of Learners</th>
<th>Topic</th>
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<tbody>
<tr>
<td>2760 commercial and home contacts in ten counties</td>
<td>On-site visits with Commercial Ag producers</td>
<td>Identification and control of plant diseases and insects</td>
<td>Commercial producers growing horticultural crops have great potential for profits. However, diseases and insects can act very quickly to wipe out a crop and produce significant losses. By timely intervention, these growers’ crops may be saved.</td>
<td>Keeping the rural economy going means keeping families on the farm, and doing so profitably. Commercial horticultural production has some of the greatest potential for profits in modern agriculture. By keeping these farming enterprises going, and dealing with problems as they arise, the farmer is kept on the farm, and the trickle-down effect of his success is spread across the entire community as he purchases inputs for his farm and conducts everyday commerce with his friends and neighbors.</td>
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<td>Working with Produce Auction</td>
<td>Proper use of pesticides</td>
<td>The proper use of pesticides is critical for both grower and consumer safety. Growers trained in this area learn to safely use these materials, leading to better health.</td>
<td>Producing a good and safe food supply is critical for our nation. Whether it is through the safe handling of pesticides or following Good Agricultural Practices, a farmer who produces high-quality and safe food passes on a product that inspires confidence in the consumer. Food such as this is more nutritious, producing better health. This ultimately leads to decreased health care costs.</td>
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<td></td>
<td>Meetings for Commercial Ag producers</td>
<td>Introduction to Good Agricultural Practices and food safety</td>
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<td></td>
<td>Educating homeowners for their horticultural needs</td>
<td>Marketing options</td>
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<td>County Ag Updates and Pesticide Applicator Training</td>
<td>Starting a horticultural farming operation</td>
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<td>Landscaping for homeowners</td>
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<td></td>
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<td>Plant care for homeowners</td>
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*Ag Updates offer growers the opportunity to obtain or renew their Private Applicator’s License. In addition, each agricultural discipline (Agronomy, Livestock, Farm Management, Ag Engineering, and Horticulture), offer updates of interest to growers on current problems. Here, Heather Benedict, Agronomy Specialist, teaches about soybean pests at the Grundy County Ag Update, held at a local church’s activity center, in Trenton.*

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*Homeowners seeking help with horticultural problems learn not only how to combat the problem, but end up increasing property values.*

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*Commercial fruit and vegetable producers are coming under increasing pressure to conform to the standards of Good Agricultural Practices (GAPs). By offering training in GAPs, Extension helps these growers produce safer food. They are also made aware of the regulatory environment surrounding GAPs, and how to satisfy requirements in this area.*

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*Homeowners who practice horticulture, whether it is producing food or planting ornamentals, increase the value of their homes. When this is practiced on a community-wide scale, the effect can be remarkable. Communities with poorly-developed landscaping are not as attractive as those where homeowners seek to beautify their properties. Collectively, these improvements lead to increased property values throughout the entire community.*
<table>
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<tr>
<td>20 active Master Gardeners in ten counties</td>
<td>Master Gardener classes held in St. Joseph and Gallatin</td>
<td>Basic plant botany, Soils and fertility, Plant disease identification and control, Vegetable crop production, Insect identification and control, Home fruit production, Plant propagation, Landscape design, Use of native plants in the landscape, Turf establishment and maintenance, Growing woody ornamentals, Annual and perennial flowers, Pesticide use and safety, Continuing education in numerous horticultural topics, Bees and bee culture</td>
<td>Master Gardener class trainees receive twelve weeks of in-depth training on all aspects of horticulture. This instruction benefits them in their private gardens and landscapes, as they apply that knowledge to problems that inevitably arise. Participation in a local Master Gardener group also benefits that individual through continuing education. Throughout the year, additional horticultural instruction is given periodically. Master Gardener groups offer an important point of social gathering in a community, around a shared topic of interest.</td>
<td>Master Gardeners provide a phenomenal amount of volunteer service to the community. This can take many forms. Most groups participate in some kind of community beautification program, where a public area is maintained for beauty and enjoyment. The Daviess County Master Gardeners, for example, participate in the MODot Adopt-A-Highway program for a section of Highway 13 around their flower beds on the north edge of Gallatin. The flower beds were reconstructed in 2010 to include new hardscape features such as boulders, as well as new plants including ornamental grasses. This project has received many positive comments in the community.</td>
</tr>
<tr>
<td>Over 300 volunteer hours</td>
<td>Master Gardener projects provide volunteer service to communities</td>
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<tr>
<td>Over 300 direct contacts</td>
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Master Gardeners perform many hours of volunteer work each year, beautifying Daviess County. A local fire department requested a simple, low-maintenance design, to go around their flagpole. The Daviess County Master Gardeners designed and constructed this attractive planter.

Continuing education is part of the Master Gardener experience. Here, the Daviess county group tours a commercial tomato greenhouse to learn how growers produce early, top-quality, tasty tomatoes.

Master Gardeners are also educators. Here two Daviess County Master Gardeners teach the Master Gardener group in Grundy county how to make large-scale concrete leaf impressions for water gardens and landscaping. The Daviess county group had made these in a very successful fundraising effort to support their beautification projects around the county.
### HOUSING AND ENVIRONMENTAL DESIGN

Education Programs and Assistance to Citizens

Building Strong Families; Rent Smart; Healthy Homes; Energy and Weatherization

Serving Andrew, Atchison, Buchanan, Caldwell, Carroll, Clinton, Daviess, DeKalb, Gentry, Grundy, Harrison, Holt, Lafayette, Livingston, Mercer, Nodaway, Ray, Saline and Worth counties in northwest Missouri

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#### Housing and Environment Design Specialist

Connie Neal

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<tbody>
<tr>
<td>18 Green Hills Community Action Agency (GHCAA) participants</td>
<td>Renters Rights from the Rent Smart program</td>
<td>Landlord/Tenant rights and responsibilities according to the Missouri Landlord/Tenant Laws.</td>
<td>Participants benefited by learning their rights and responsibilities as tenants and expectations of landlords as outlined in the Missouri Landlord/Tenant Laws handbook. Each participant received a copy of the handbook as well.</td>
<td>It provides a practical education opportunity to help people acquire and keep decent rental housing.</td>
</tr>
<tr>
<td>18 Green Hills Community Action Agency (GHCAA) participants</td>
<td>Money Matters - budgeting</td>
<td>Participants learned how to identify their own personal money styles, practice family resource allocation and learn the importance of a spending plan.</td>
<td>Families make fewer demands on community/agency resources. Participants learn goal setting and benefit by learning to set realistic goals, how to reach desired goals and resolve conflicts when individual and family goals compete.</td>
<td>Money Matters provides citizens with an understanding of what motivates personal financial decisions. They will also understand trade-offs among competing resource demands within the family; increase communication skills within the family and reduce family stress.</td>
</tr>
<tr>
<td>18 Green Hills Community Action Agency (GHCAA) participants</td>
<td>Healthy Homes – Green Cleaning</td>
<td>Participants learned how to reduce indoor pollutants by limiting the number of chemicals used and by following three basic guidelines for improving their indoor environment.</td>
<td>Participants benefited by learning how to improve their indoor environment, save money and help conserve natural resources. Participants received recipes and the supplies for making their own cleaning products.</td>
<td>People spend 90% of their time indoors so green cleaning measures help reduce allergies and asthma issues which can help to reduce absenteeism from school and work. It provides citizens with the information needed so that they can simplify their cleaning, save money and improve their indoor environment.</td>
</tr>
<tr>
<td>8 Family and Community Education (FCE) members</td>
<td>Rent Smart</td>
<td>Participants learn the basics of budgeting, the rental application process, how to maintain positive landlord-tenant relationships, credit reports, and indoor air quality information and how to keep their homes safe and clean.</td>
<td>Participants benefit by applying the information that they receive in the training to their own lives. They learn how to budget their money; how to be a successful renter by maintaining positive landlord-tenant relationships; understand the Missouri Landlord-Tenant Laws; the importance of documentation and record keeping; and steps they can take to improve their indoor air quality and keep their home clean and safe.</td>
<td>The Rent Smart program is designed to provide training and educational resources for individuals, agencies and organizations serving low-income populations so they can obtain and maintain affordable rental housing successfully.</td>
</tr>
</tbody>
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## HOUSING AND ENVIRONMENTAL DESIGN
**EDUCATION PROGRAMS AND ASSISTANCE TO CITIZENS**

Healthy Homes; Energy and Weatherization

*Housing and Environment Design Specialist*

*Connie Neal*

Serving Andrew, Atchison, Buchanan, Caldwell, Carroll, Clinton, Daviess, DeKalb, Gentry, Grundy, Harrison, Holt, Lafayette, Livingston, Mercer, Nodaway, Ray, Saline and Worth counties in northwest Missouri

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<tr>
<td>2 Homebuyer Education participants</td>
<td>H.O.M.E. or Homeownership Made Easier</td>
<td>How the home-buying process works and the skills necessary to select and finance a home.</td>
<td>University of Missouri worked collaboratively with the United States Department of Agriculture (USDA) to offer first-time, low-income families completing the Extension homebuyer education classes to learn the keys to successful home ownership; budgeting, managing consumer credit, home maintenance, energy management and how to create a safe, healthy home.</td>
<td>It provides citizens with the information needed so that they can simplify their cleaning, save money and improve their indoor environment.</td>
</tr>
<tr>
<td>36 Green Hills Community Action Agency (GHCAA) participants</td>
<td>Energy and Weatherization</td>
<td>Measures they can take to save energy and money. Participants learned tips for weatherizing their home.</td>
<td>Participants benefited by learning the importance of an energy audit which the GHCAA provides free of charge. They learned measures they can take to save energy and money by replacing their light bulbs, using caulk, weather stripping and replacing faucets with energy efficient devices. All participants received an energy and weatherization kit from the GHCAA.</td>
<td>By increasing the energy efficiency of homes by including the importance of weatherization and insulation of homes as well as strategies for saving energy and water.</td>
</tr>
</tbody>
</table>

Grundy county participants learn about types of energy efficient lighting during the Energy and Weatherization program.
# Agriculture – Livestock

## Education Plus Solutions for Farming Success

### Forage Production and Management

#### Beef Production Systems

<table>
<thead>
<tr>
<th>Grundy County Learners</th>
<th>Topic</th>
<th>What Did They Learn?</th>
<th>How Did Participants Benefit?</th>
<th>How Does This Work Make NW Counties and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef Cattle Producers</td>
<td>Ag Update and Pesticide Applicator Training</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.</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>Forage and Hay Producers</td>
<td>Focus on Forages V</td>
<td>How to manage forages for better production, lower cost and improved feed value.</td>
<td>Producers are able to produce more forage on fewer acres.</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>FFA Students</td>
<td>Hundley-Whaley Cover Crop Plot Tour and Information Session</td>
<td>How to incorporate cover crops for agronomic benefit and livestock forages.</td>
<td>Cover crops help reduce erosion and improve soil health. We are trying to demonstrate that they also can provide forage for beef cattle.</td>
<td></td>
</tr>
<tr>
<td>Private Pesticide Applicators</td>
<td>Hundley-Whaley Research Center Field Day</td>
<td>New technologies and practices to improve row-crop production and increase forage production.</td>
<td>Attendees are able to see current technologies and assess value in their own farming operations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hundley-Whaley Research Center FFA Field Day</td>
<td>New agricultural production technologies and career options.</td>
<td>FFA students are exposed to cutting edge technology and the potential careers that are available in agriculture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Beef Producers Seminar</td>
<td>Improved forage production options to reduce costs and tools to help with herd sire selection.</td>
<td>Ideas and strategies to reduce costs and improve beef production.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ration Balancing and Nutrition Consulting</td>
<td>Lower cost feed rations that also improve gain and calf performance.</td>
<td>Decreased feed costs and increased returns. Education on the use of by-product feeds.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Show-Me-Select Replacement Heifer Program</td>
<td>Best management practices for the development of beef replacement heifers.</td>
<td>Participants have better developed and more reproducibly sound replacements. Heifers are also eligible to participate in special Show-Me-Select heifer sales.</td>
<td></td>
</tr>
</tbody>
</table>

Livestock Specialist

Shawn Deering
<table>
<thead>
<tr>
<th>Number of Grundy County Learners</th>
<th>Total Hours of Collective Workshop Participation</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Work Make This County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 participants</td>
<td>45</td>
<td>Participants learned basic care, feeding and show ring preparation of swine, goats, sheep and bottle calves. Participants reported they learned about water quality, deworming rotations, disease prevention and showmanship techniques. They also learned what judges look for while they’re in the ring.</td>
<td>Participants of this class rotated between speakers to learn about nutrition, health, showmanship and received hands on training in care of their animals. 35 percent of the participants reported they will train and work with their animal more as a result of this clinic. 47 percent of the participants reported they feel more comfortable grooming their animal and feel more prepared to enter the show ring. As a result of this clinic, 30% of the participants reported they will change the way they feed and water their animals.</td>
<td>Youth exhibiting livestock are often future leaders in the livestock industry. Learning to properly care for their animals now, prepares them to be better stewards and in turn increases the quality of meat that goes into our food systems. This clinic gives youth the confidence they need to exhibit and care for livestock projects. Ninety percent of the participants reported that they feel more comfortable with their animal after this clinic.</td>
</tr>
</tbody>
</table>

Jack Green demonstrates how to lead a bucket calf to many first or second year livestock exhibitors.

Kevin DeHaan answers questions after spending the morning teaching all aspects of showing sheep and goats.
Participants learn proper techniques for successful artificial insemination.

<table>
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<tbody>
<tr>
<td>2 participants</td>
<td>33</td>
<td>This class is intended to give students the skills to implement an Artificial Insemination (AI) program into their existing beef herd. Materials presented show students why they should be motivated to effect change in their beef herds giving them economic motivation to implement an AI program. Common misconceptions are addressed to evoke the attitude change necessary for successful herd improvement.</td>
<td>Participants of this class gained classroom knowledge as well as hands on experience with actual reproductive tracts and cattle. They were able to practice techniques learned in the classroom and ask questions to 3 on sight trainers. 63% of the participants stated they did not currently use AI on their farm, but after this class plan to implement it into their production practices. The remaining 36% already implement AI in their operation. Ninety percent of the participants said they learned other management techniques such as synchronization, animal handling and proper nutritional requirements after participating in this class.</td>
<td>Artificial insemination has been shown through research to be the fastest way to change genetics of a beef herd. Understanding the process and the actual physical application of materials has been the largest barrier to implementation for many medium and small producers. This program gave the participants the skills and knowledge needed to start making greater strides in increasing production on their operation.</td>
</tr>
</tbody>
</table>
**GRUNDY COUNTY 4-H**
A COMMUNITY OF YOUTH BUILDING LIFE SKILLS, ENGAGING IN SCIENCE AND CONNECTING TO THEIR COMMUNITY

4-H Youth Associate
Lisa Delameter
Serving Grundy and Mercer counties in northwest Missouri

<table>
<thead>
<tr>
<th>Number of Grundy County Learners</th>
<th>Total Hours of Collective Participation in 2013</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Work Make Grundy County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>73 members</td>
<td>2,911 4-H learning hours</td>
<td>Grundy County 4-H serves youth through six organized clubs, school enrichment groups, camps and more.</td>
<td>4-H project work and related educational experiences help youth explore interest from animal science to woodworking, resulting in increased interest in science at a rate three times of non-4-H peers. Projects such as robotics, water quality conservation, livestock veterinary science and computer software allow 4-H youth to practice: wise use of resources, decision making, goal setting, marketable skills and self-motivation.</td>
<td>Youth who earn their bachelor’s degree, increase annual earnings by $2.01 million over their lifetime (Porter, 2003). If 70 percent of the Grundy members participating in 4-H events on the MU Campus go on to earning their bachelor’s, 4-H would help young people earn $40 million more of lifetime earnings.</td>
</tr>
<tr>
<td>139 youth and adult volunteers</td>
<td>6,000 adult volunteer hours</td>
<td></td>
<td></td>
<td>Volunteers create, support and are part of the 4-H community. Missouri 4-H volunteers responding to a survey report they contribute on average 100 hours per year. Valuing their time at $19 per hour, based on average Missouri incomes, the contribution of Grundy 4-H volunteers was worth more than $125,400 in 2013! More importantly, these adults serve as mentors for our youth helping them transition into healthy adulthood, priceless.</td>
</tr>
</tbody>
</table>

Talking turkey at the North Central Missouri Fair.

4-H – across the generations.

**Regional, State Attendances:**
- 4-H Summer camp - 17
- Float Trip - 2
- Shooting Sports - 4
- Contest - 50
- Fairs - 74

North Central Missouri Fair
## EMBRYOLOGY
HATCHING CHICKS IN THE CLASSROOM FOR PRESCHOOL THROUGH 6TH GRADE STUDENTS IN THREE GRUNDY COUNTY SCHOOLS

<table>
<thead>
<tr>
<th>Number of Grundy County Learners</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Work Make Grundy County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>190 students and 14 teachers from Laredo R-VII, Pleasant View R-VI and Trenton R-I X Rissler Elementary</td>
<td>4-H Embryology teaches students about science and respect for life. Students hatch chicks in the classroom and witness the exciting miracle of life. Through this program, pre-incubated eggs are delivered to the school where they hatch about four days later. During this time, students have the opportunity to learn the scientific process of embryology including: incubation, preparing a brooder, hatching, identifying parts of an egg, development of chicks in the egg and once they have hatched, handling chicks and instilling interest in careers in the poultry industry. While students care for the eggs and chicks, they learn leadership, responsibility, sharing, decision making, critical thinking and teamwork.</td>
<td>The 4-H Embryology Program gives children of all ages a hands-on experience in hatching chickens while developing personal confidence and leadership ability through embryology project activities. Children learn by listening, observing, experimenting and applying their knowledge to real-world situations. As students continue on their learning journey, they have increased knowledge and skills in nutrition, food productions, food safety and systems. Within this program, Grundy County students have the opportunity to develop and practice life skills including working on a team, identifying one’s own competencies, creative expression and short-term goal setting.</td>
<td>Missouri is seeking to be a national and international leader in life sciences. The school enrichment embryology project helps students at an early age begin to develop an understanding of science as a technology for supporting, and possibly contributing to as an adult, the scientific economy in Missouri’s life sciences industry. 4-H science programs reach more than 5 million youth with hands-on learning experiences; these experiences are supported by more than a half million dedicated adult volunteers who are placing 4-H youth on a path towards successful careers. 4-H will address our nation’s critical challenge of developing a long-term solution for improving science literacy and aptitude by preparing one million new young people to excel in science, engineering and technology by 2013.</td>
</tr>
</tbody>
</table>

Students enjoying a hands-on experience.
**Income Tax Preparation for Grundy County**  
**Missouri Taxpayer Educational Initiative**

Serving Buchanan, Caldwell, Clinton, Daviess, DeKalb, Gentry, Grundy, Harrison, Holt, Livingston, Mercer, Nodaway and Worth Counties

<table>
<thead>
<tr>
<th>Number of Grundy County Participants</th>
<th>Program or Workshop</th>
<th>What Did They Save?</th>
<th>How Does This Work to Make Grundy County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Taxpayers</td>
<td>Free Income Tax Preparation</td>
<td>Total refunds = $6,127</td>
<td>When you support the Missouri Taxpayer Educational Initiative, taxpayers save an average of $200 in tax preparation fees per year, leading to families having increased cash flow, which assists in stimulating the local, county and state economy.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tax/rent credits = $1,310</td>
<td></td>
</tr>
</tbody>
</table>
Matt and Trinity Ray and family of Trenton were among the 108 families honored during the Missouri State Fair’s Farm Family Day, Aug. 12, 2013.

The Rays were selected as the Grundy County Missouri State Fair Farm Family by the Grundy County Extension Council and local Farm Bureau. The family includes daughters, Eliana and Kim.

Each year the fair sets aside a day to recognize farm families from across the state who are active in their community, involved in agricultural activities and who participate in local outreach and extension educational programs such as 4-H and FFA.

The annual event was sponsored by Missouri Farm Bureau, Missouri Department of Agriculture, Missouri State Fair, University of Missouri Extension and the University of Missouri College of Agriculture, Food and Natural Resources.
MU CONTINUING EDUCATION

In the 2012-2013 academic year, MU Continuing Education reports the following students for Grundy County:

- Fire and Rescue Training Institute - 79 Students
- MU Conference Office – 78 Students
- Nursing – 1 Student
- Continuing Medical Education – 1 Student

The programs offered through MU Continuing Education are:

MU CONFERENCE OFFICE
The MU Conference Office (MUCO) was created in 1963 to provide high-quality, professional, full-service meeting management for a variety of noncredit educational programs, such as conferences, workshops, seminars and symposia. Whether a meeting is hosted on the MU campus, elsewhere in Missouri or anywhere in the world, the office’s professional staff helps create the best learning environment for participants. For FY 2013, MUCO registered 13,982 Missourians in MU Extension conferences. In FY 2013, MUCO’s portfolio of conferences included the Nanofrontiers Symposium at MU; Write to Learn at the Lake of the Ozarks; Midwest Symposium on Therapeutic Recreation in St. Louis; in addition to the National eXtension Conference in Oklahoma City, Okla., and Maize Genetics Conference in St. Charles, Ill.

FIRE AND RESCUE TRAINING INSTITUTE
MU Extension’s Fire and Rescue Training Institute (MU FRTI) provides comprehensive continuing professional education and training to Missouri’s fire service and emergency response personnel. The institute directly impacts the well-being and protection of Missouri’s 23,600 firefighters and the Missourians they serve. Courses prepare firefighters for medical emergencies, hazardous materials response, and disaster preparedness and mitigation, as well as fires. During FY 2013, the institute provided 185,510 instructional hours of training and conducted 597 individual courses. MU FRTI served 12,066 Missourians from all 114 Missouri counties, and 1,802 out-of-state students. For more information, see mufrti.org.

LAW ENFORCEMENT TRAINING INSTITUTE
The Law Enforcement Training Institute (LETI) develops and provides state-of-the-art training and education programs to law enforcement practitioners, civilian professionals and laypersons. For 65 years, the institute’s faculty and affiliated professionals have provided basic pre-service and specialty in-service instruction to both law enforcement academy students and veteran officers who serve in local, state and national public safety. LETI is now taking that expertise to nontraditional areas, offering seminars to the general public in personal safety, workplace violence and citizen response to armed subjects. During 2013, LETI served 684 students from 70 Missouri counties and the City of St. Louis, as well as 293 students from 34 other states. For more information, see leti.missouri.edu.

MISSOURI TRAINING INSTITUTE
The Missouri Training Institute (MTI) in MU’s Trulaske College of Business provides continuing education, custom-designed training programs, and business consulting services for business and industry, public and nonprofit organizations, and educational institutions. Training programs cover human resource management, supervision, management, leadership, team building, effective decision making, dealing with generational differences and business writing. The institute’s consulting services cover human resources, strategic planning, board development and board retreats. In FY 2013, 12,907 people from all 114 Missouri counties enrolled in the institute’s 518 programs. For more information, see mti.missouri.edu.
MU NURSING OUTREACH
Working independently and in partnership with other organizations, MU Nursing Outreach (MUNO) provides face-to-face and web-based educational programs, mostly for nurses but also other healthcare professionals including social workers, dietitians, nursing home administrators, psychologists, counselors and health educators.

MU Nursing Outreach’s educational activities attracted 2,671 nurses and other healthcare providers from Missouri and 145 out-of-state participants. Multidisciplinary programs that were co-sponsored with Continuing Medical Education reached an additional 1,182 nurses. Nurses from 91 (80 percent) of Missouri’s 114 counties and the City of St. Louis attended continuing education programs sponsored by MUNO.

MUNO serves a predominantly rural audience with 79 percent of the Missouri participants residing outside the metropolitan St. Louis and Kansas City areas. In addition to Missouri, nurses from 22 other states benefitted from MUNO’s educational programs. For more information, see http://www.nursingoutreach.missouri.edu.

CONTINUING MEDICAL EDUCATION
MU Extension’s Office of Continuing Medical Education (CME) improves the health of Missourians by providing education and programs to increase doctors’ scope of diagnosis and health care treatment options. Continuing Medical Education programs incorporate the most up-to-date research and clinical guidelines available. In FY 2013, more than 1,700 programs reached 27,195 healthcare professionals across the state. For more information, see http://medicine.missouri.edu/cme/.
GRUNDY COUNTY 2013 FINANCIAL REPORT

INCOME

- COUNTY APPROPRIATIONS: $20,000.00
- POSTAGE INCOME: 840.00
- ENDOWMENT FUND: 13,000.00
- MISCELLANEOUS INCOME: 423.72

TOTAL INCOME: $34,263.72

EXPENSES

- PERSONNEL: $20,361.66
- SUPPLIES/SERVICES: 1,215.50
- TELEPHONE – LOCAL & TAXES: 760.41
- TELEPHONE (paid by county general revenue): 553.21
- COPIER (paid by county general revenue): 1,471.42
- POSTAGE/NEWSLETTER EXPENSE: 1,063.52
- TRAVEL: 1,365.88
- INSURANCE: 100.00
- PUBLICATIONS: 247.80
- EXTENSION COUNCIL ELECTION EXPENSE: 184.60
- CAMPUS CONNECTIVITY FEE: 365.00
- MISCELLANEOUS: 423.72

TOTAL EXPENSES: $28,112.72

Acknowledgements and Thanks

Our mission is to serve the people of Grundy County, and this report highlights many of the programs that we and other Extension specialists have brought to our county in 2013. We would especially like to thank the Grundy County Commissioners for their support of Grundy County Extension in 2013. Without your support, we would be unable to fulfill our mission. We also thank the many volunteers who have served this mission, including 4-H leaders, FCE (Family and Community Education) club, Master Gardeners and others. Finally, we thank the members of the Grundy County Extension Council who have faithfully overseen the finances and programming of the Grundy County Extension Center.

Connie Neal, housing and environmental design specialist and co-county program director
Meridith Berry, family financial educator and co-county program director
Lisa Delameter, 4-H youth development program associate
Vickie Pash, office manager

Grundy County Extension Center
700 Main St. Suite 2 Trenton, MO 64683
Telephone: 660-359-4040 Ext. 8
Website: http://extension.missouri.edu/grundy
Office Hours: Monday – Friday, 8:30 a.m. to 4:30 p.m.

State, Federal and County Funding for Extension

University of Missouri Extension programs in Grundy County are funded by Grundy County, state and federal appropriations. Local funding for support of the Grundy County Extension Center is provided by the Grundy County Commission. They provide office space, funds for office expenses, clerical salaries and travel expenses of extension specialists who conduct educational programs in Grundy County.
Impact on Grundy County, Missouri

Grundy County

Population in 2013: 10,222

Estimated Population Change 2000-2010: -171 (-1.6%)

Estimated Median Household Income In 2010: $35,017

The University of Missouri advances Missouri citizens and communities through its mission of teaching, research, public service and economic development across our four campuses and University of Missouri Extension.

Office of Government Relations
309 University Hall
Columbia, MO 65211

UM Students from Your County in 2013

- 35 students
  - 25 - MU
  - 8 - UMKC
  - 2 - Missouri S&T
  - 33 - Undergraduates
  - 2 - Graduates
  - 31 - Full-time students
  - 4 - Part-time students

UM Alumni Residing in Your County in 2013

- 199 alumni
  - 160 - MU
  - 30 - UMKC
  - 8 - Missouri S&T

127 Selected School Alumni

- 4 - Medicine
- 7 - Nursing
- 4 - Health Professions
- 6 - Dentistry
- 8 - Pharmacy
- 1 - Optometry
- 5 - Veterinary Medicine
- 70 - Agriculture
- 14 - Engineering
- 8 - Law

UM Alumni Teaching K-12 in your County in 2013

- 8 teachers
- 6% of all county teachers
- 1 principal or administrator
- 8% of all county principals or administrators

UM Employees and Retirees Residing in Your County in 2013

- 4 people employed by MU
  - 3 - MU
  - 1 - UM Health Care
  - 2 - UM Retirees and Beneficiaries

Tax Revenue and Income Generated by UM Employees and Retirees Residing in Your County in 2013

- $3,123 in Missouri State Taxes
- $15,674 in Federal Taxes
- $142,810 in Salary and Retirement Income returning to the county

UM Services Received in Your County in 2013

- 242 patients seen at UM Health Care, with $11,950 of uncompensated care.
- 7 patients seen at the UMKC School of Dentistry with an average of $26 per patient in uncompensated care.
- 5,313 contacts with MU Extension through MU Extension events held in District counties.
GRUNDY COUNTY 4-H

4-H members honoring our flag at Camp Crowder.

Learning canoeing skills at 4-H camp!

Bringing the University of Missouri to the people of Grundy County.