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December 2014

Dear County Commissioners and Friends of MU Extension:

Over the past year, with a theme of *Celebrating the Past and Building for the Future*, MU Extension marked a century of service to Missouri. While the celebrations have come to an end, the focus on building for the future is strong. The university’s commitment to the mission of bringing relevant, reliable and responsive education to improve lives and local economies is alive and well.

To maintain our position as a valued and trusted resource for Missourians, MU Extension continues to strengthen existing programs, build relationships and explore new opportunities to benefit Missourians. For example:

- In the area of agriculture, the Show-Me Select Heifer Replacement program continues to improve the breeding performance of heifers as it helps participants realize record prices for their efforts. Producers from 103 of Missouri’s 114 counties have enrolled heifers in the program. In a record-setting sale, 168 bred replacement heifers sold for an average of $3,033 at the Fruitland (Missouri) Livestock Auction.
- Strengthening communities through art, innovation and creativity, Extension’s Community Arts Program is piloting an initiative in Lexington to help the community enhance its image with art businesses and opportunities that reflect the talent of regional artists and benefit a nine-county tourism alliance. The Community Arts Program is also at work in the St. Louis area, overseeing the Saint Louis Storytelling Festival, which engages approximately 25,000 people each year.
- Knowing the value of dialogue with those it serves, MU Extension has made a concerted effort with the Mizzou Alumni Association to introduce MU Chancellor R. Bowen Loftin to extension programs, participants, key stakeholders and alumni from all corners of the state. These tour events, which will continue into 2015, are designed to foster understanding and support that lead to a stronger local extension effort across the state.

These are just a few examples of MU Extension’s focus on building for the future and continuing to make an impact in local communities.

I thank you for your support of MU Extension and our efforts in your community. I look forward to our continuing partnership and welcome your ideas for improving our partnership.

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*
Dear Friends of the University of Missouri Extension,

The University of Missouri Extension faculty, staff and council would like to thank the Daviess County and Caldwell County Commissioners for their continued support and funding for programming in 2014. The faculty, staff and council remains committed to improving people’s lives by providing relevant, reliable, and responsive educational programs for the citizens of Daviess and Caldwell Counties.

The University of Missouri Extension is a part of the network of the nation’s more than 100 land-grant colleges and universities and is your local connection to the University of Missouri campuses. Using science-based knowledge, University of Missouri Extension engages people to understand change, solve-problems and make informed decisions. In 2014, more than one million Missourians statewide turned to University of Missouri Extension to gain practical knowledge, learn how to compete in the global marketplace, balance the responsibilities of work and family, protect natural resources and adapt to new technologies.

By tapping into statewide university research, MU Extension specialists provide Missourians with a wide range of programs in agriculture, community development, human environmental sciences, business development, youth development and continuing education. Current programming efforts statewide focus on agricultural profitability and viability; building family and individual strengths; building human resources; business, community and economic development; enhancing health and nutrition; environmental quality and stewardship; and positive youth development.

The contents of this report are a summary of the highlights of our educational efforts during the past year. We hope this report provides a greater understanding about University of Missouri Extension programming efforts in Daviess and Caldwell Counties.

Jayla Smith
Daviess Council Chairman

Jerry Cook
Caldwell Council Chairman

Becky Simpson
Daviess County Program Director

Debbie Davis
Caldwell County Program Director
Elected Officials Serving Caldwell and Daviess

Caldwell County Commission

**Bud Motsinger**  
Presiding Commissioner  
3629 NE State Rt. U  
Hamilton, MO 64644

**Donnie Cox**  
Associate Commissioner  
3275 SE Sunnymale Rd  
Braymer, MO 64624

**Gerald McBrayer**  
Associate Commissioner  
875 NW Carter Rd  
Kingston, MO 64650

Daviess County Commission

**Randy Sims**  
Presiding Commissioner  
PO Box 162  
Winston, MO 64640

**David Cox**  
Associate Commissioner  
18141 St Hwy P  
Jamesport, MO 64648

**Carl Carder**  
Associate Commissioner  
27958 Nickel Ave.  
Gallatin, MO 64640

### Missouri House of Representatives

**Daviess: District 2**  
J. Eggleston  
201 West Capitol Ave., RM 406-B  
State Capitol Building  
Jefferson City MO 65101  
(573) 751-4285

**Caldwell: District 8**  
Jim Neely  
201 West Capitol Ave., RM 115C  
State Capitol Building  
Jefferson City MO 65101  
(573) 751-0246

**Senatorial District 21**  
David Pearce  
201 West Capitol Ave., RM 227  
State Capitol Building  
Jefferson City MO 65101  
(573) 751-2272

### Missouri Senate

**Senatorial District 12**  
Dan Hegeman  
201 West Capitol Ave., Rm. 332  
State Capitol Building  
Jefferson City MO 65101  
(573) 751-1415

**U. S. House of Representatives**

**U. S. Congressional District 6**  
Sam Graves  
1415 Longworth House Office Building  
Washington D.C. 20515  
(202) 225-7041

### U. S. Senate

**Roy Blunt**  
260 Russell Senate Building  
Washington D.C. 20510  
(202) 224-5721

**Claire McCaskill**  
506 Hart Senate Building  
Washington D.C. 20510  
(202) 224-6154
<table>
<thead>
<tr>
<th>Faculty/Staff name</th>
<th>Specialty</th>
<th>County served</th>
<th>Contact information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Debbie Davis</td>
<td>4-H Youth Development/ County Program Director</td>
<td>Caldwell</td>
<td><a href="mailto:davisdd@missouri.edu">davisdd@missouri.edu</a> 816-539-3765</td>
</tr>
<tr>
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<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>Kevin Hansen</td>
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<tr>
<td>Jerry Baker</td>
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<tr>
<td>Meridith Berry</td>
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<tr>
<td>Rebecca Travnicheck</td>
<td>Family Financial Education</td>
<td>Caldwell and Daviess</td>
<td></td>
</tr>
<tr>
<td>Tim Baker</td>
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</tr>
<tr>
<td>Connie Neal</td>
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</tr>
<tr>
<td>Jessica Trussell</td>
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</tr>
<tr>
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<tr>
<td>Jim Humphrey</td>
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<tr>
<td>Connie Mowrer</td>
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</tr>
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<tr>
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<td>Jill Knadler</td>
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<td>Kathy May</td>
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</tr>
</tbody>
</table>
Northwest Region 4-H Camp 2014-Crowder State Park

“EVERYTHING IS AWESOME IN 4-H”
DAVIESS COUNTY 4-H
A community of youth building life skills, engaging in science and connecting to their community.

4-H Youth Development Specialist
Becky Simpson

<table>
<thead>
<tr>
<th>Number of Daviess County Learners</th>
<th>Total Hours of Collective Participation in 2014</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Work Make Daviess County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>67 4-H Members</td>
<td>4489 4-H'er learning hours 2500 adult volunteer hours</td>
<td>Daviess County 4-H serves youths through 3 organized clubs, school enrichment, camps and more. Daviess County 4-H clubs offer long-term educational experiences in which members learn life skills such as decision making, public speaking and working with others. Members learn by doing under the guidance of adult volunteers. The youths of Daviess County have demonstrated advanced learning through the following activities: Regional, State and National 4-H Attendance: • Clover Kids Overnight Camp-2 members and 2 volunteers • 4-H Summer Camp-11 members • Missouri State Fair- 35 members • Missouri State Fair Demonstrations-2 members • School Enrichment-94 youth One of every five Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2014.</td>
<td>4-H project work and related educational experiences help youths explore interests from animal science to aerospace, resulting in increased interest in science at a rate three times that of non-4-H peers. Projects such as robotics, water quality, conservation, livestock, veterinary science and computer software allow 4-H'ers to practice: wise use of resources, decision making, goal setting, marketable skills and self-motivation. Interest in science is a predictor for young people to choose science-related careers. Compared to non-4-H youth, 4-H youth are 70% more likely to participate in science, engineering, or computer technology programs and 40% more likely to pursue science, engineering, or computer technology courses or careers. This interest in science, along with 4-H members’ 70 percent greater likelihood to go to college than youths participating in other out-of-school programs, is helping grow future scientists.</td>
<td>4-H Youths are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. Missouri 4-H members spend almost nine times more of their leisure time than peers engaged in projects anchored in science. As a result, 4-H members are three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008). Fostering career development is the fact that Missouri 4-H members are connected to college campuses and faculty. MU Extension 4-H connects 8,500 young people to University of Missouri campuses. Being on campus is a predictor of youths going onto higher education (Hoover, 2006). Youth who earn their earn bachelor’s degree, increase annual earnings by $2.4 million over their lifetime (NACUBO, 2012). If 70% of the Daviess County members participating in 4-H events on the MU Campus go onto earning their Bachelors, 4-H would help young people earn $1 million more of lifetime earnings. 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 $21.00 per hour, based on average Missouri incomes, the contribution of Daviess County 4-H volunteers was worth more than $52,500 in 2014! More importantly, these adults serve as mentors for our youths helping them transition into healthy adulthood, priceless.</td>
</tr>
<tr>
<td>25 Volunteers</td>
<td></td>
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</table>

Northwest Region Overnight Clover Kid Camp

As a part of school enrichment, Daviess County fifth graders participate in the Water Festival. The youths are exposed to hands on activities using microscopes for the first time.

Pictured at left are the youths of the Brushy Squirrels 4-H Club of Jamesport
Caldwell County 4-H
A community of youth building life skills, engaging in science and connecting to their community.

Debbie Davis
4-H Youth Development Specialist

Dale Hunsburger
4-H Youth Development Associate

<table>
<thead>
<tr>
<th>Number of Caldwell County Learners</th>
<th>Total Hours of Collective Participation in 2013</th>
<th>What Did They Learn and What Action Did They Take?</th>
<th>How Does This Work Make Caldwell County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>129 4-H Members</td>
<td>12,900 4-H'er learning hours</td>
<td>Caldwell County 4-H members learn to use their talents to engage in their communities. Young people in 4-H are engaged in twice as many leadership roles than their non 4-H peers. This provides them with the experience in problem-solving to step up and lead in a complex, changing world. 4-H members were engaged in leadership and service experiences in their communities. Caldwell County 4-H serves youths through two organized clubs, school enrichment opportunities, camps and more. Caldwell County 4-H clubs offer long-term educational experiences in which members learn life skills such as decision making, public speaking and working with others. Members learn by doing under the guidance of adult volunteers, who teach projects ranging from aerospace and arts to veterinary science and sport fishing. Clubs also involve children and teens in community service, camping and educational trips. The youths of Caldwell County have continued to demonstrate leadership and learning through the following regional, state, and national activities: State Congress—two members 4-H Summer Camp—24 youths and three counselors Missouri State Fair—17 members</td>
<td>4-H Youths are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. Missouri 4-H members spend almost nine times more of their leisure time than peers engaged in projects anchored in science. As a result, 4-H members are three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008). Fostering career development is the reason that Missouri 4-H members are connected to college campuses and faculty. MU Extension 4-H connects 8,500 young people to University of Missouri campuses. Being on campus is a predictor of youth going on to higher education (Hoover, 2006). These students are more likely to go to college and enjoy: increased financial success for themselves and their children, being better consumers, improved quality of life through more opportunities for leisure and hobbies, improved health for themselves and their children (Porter, 2003) being more likely to vote as adults and being more likely to contribute to their community (Lerner, 2009; Zaff et al, 2003). Youths who earn their bachelor’s degree increase annual earnings by $2 million over their lifetime (NACUBO, 2012). If 70 percent of Caldwell County members participating in 4-H events on the MU Campus go on to earn their bachelor’s degree, 4-H will help these young people earn $12 million more in lifetime earnings. 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 $21 per hour, based on average Missouri incomes, the contribution of Caldwell County 4-H volunteers was worth more than $352,800 in 2014! More important, these adults serve as mentors for our youths helping them transition into a healthy and productive adulthood. 4-H project work and related educational experiences help youths explore interests in leadership, citizenship and communications. 4-H youths report three times more opportunities than their non 4-H peers to engage in meaningfully community leadership roles.</td>
</tr>
<tr>
<td>148 Youth in School Enrichment programs</td>
<td>740 school enrichment hours 16,800 volunteer hours 24 youths spent over 300 hours learning in 4-H Camping Programs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>156 Adult and 12 Youth Volunteers</td>
<td>12,900 4-H'er learning hours</td>
<td></td>
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</tr>
</tbody>
</table>

One of every five Missourians between the ages of five and 18 participated in a Missouri 4-H program in 4

Photo top left: Mr. Richard Evans serving as a conference judge and interviewing Rylie Baragary about her apple pie. Middle photo: Clover Kids enjoying a bubbling good time! Lower left photo: Water Festival included youths from all over Caldwell County.

Photo top left: Mr. Richard Evans serving as a conference judge and interviewing Rylie Baragary about her apple pie. Middle photo: Clover Kids enjoying a bubbling good time! Lower left photo: Water Festival included youths from all over Caldwell County.
**FAMILY NUTRITION EDUCATION PROGRAM (FNEP)**

FNEP provides information on nutrition, food safety, and physical activity for lifelong health and fitness.

Number of Daviess and Caldwell County Learners

<table>
<thead>
<tr>
<th>Daviess County</th>
<th>Caldwell County</th>
</tr>
</thead>
<tbody>
<tr>
<td>969 – youths</td>
<td>1,727 - youth</td>
</tr>
<tr>
<td>153 – adults</td>
<td>397 - adults</td>
</tr>
</tbody>
</table>

School Districts and Agencies Served

- Daviess County Schools: Gallatin, North Daviess, Pattonsburg, Tri-County, Winston
- Caldwell County Schools: Braymer, Breckenridge, Cowgill, Hamilton, Kingston, Mirabile, New York, Polo

What Did They Learn?

- For youths who participated in FNEP, **student changes** reported statewide by teachers reveal:
  - 90% more aware of nutrition
  - 67% make healthier meal and/or snack choices
  - 80% more willing to try new foods
  - 83% improved hand washing
  - 65% increased physical activity

- **Adults** who participated in FNEP also made significant improvements in these areas:
  - 51% more aware of nutrition
  - 50% make healthier meal and/or snack choices
  - 36% eat breakfast more often
  - 44% more willing to try new foods
  - 39% increased physical activity
  - 52% make/offer healthier food choices for students

FNEP Participants learn:

- Trying new foods is fun
- Food safety means better health
- How to stretch food dollars

What Action Did They Take?

- **Connie Griffith shares:** I was teaching about food safety in the fourth grade class at Pattonsburg Elementary School. We were discussing the safe ways to thaw food and the teacher interjected that when she heard this lesson last year it caused her to change her method of thawing meat. It is awesome that sometimes we reach an audience that we are not even aware of.

  I was stopped in the hall of the Tri-County Elementary School by a parent who is also a teacher there. She wanted to thank me for helping her child learn to eat more healthy. She continued that he was prone to eating only junk food, until recently.

  She said that he came home after our vegetable lesson telling her how good fresh spinach and red peppers are. She immediately bought some to have at home. It is so rewarding to hear how our food tastings are making a positive difference.

- **Angie Rhoad shares:** At Polo Elementary, I had a child who would just be terrified of me when I walked into the classroom. The teacher told me that he was not a good eater and he knew that we would be having tastings. Each week I encouraged him to try, but he just couldn't bring himself to do it. Lesson 5 I brought 3 types of yogurt to taste. He noticed that the other children were enjoying it, and was encouraged to try it. He licked the spoon that had a small amount of peach on it and decided it was “not too bad”.

  The following week when I walked in the door, he met me with a big hug at the door.

How Does This Work Make Daviess and Caldwell Counties and Missouri Better?

The Family Nutrition Program brought $8,872,444.71 in Federal funds to the state of Missouri. These funds were used to provide nutrition education to 1,047,203 food stamp recipients and food stamp eligible citizens of Missouri. 3057 of these participants reside in Daviess and Caldwell Counties.

Participants in FNEP make healthier meal & snack choices, increase their physical activity, and in general make healthier food choices. They 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.
<table>
<thead>
<tr>
<th>Program or Workshop</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Does This Work To Make Caldwell and Davies Counties and Missouri Better?</th>
</tr>
</thead>
</table>
| Focus on Kids       | These parents of children ages 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. | The participants reported the following:   
* One hundred percent plan to avoid arguing/fighting with their children’s other parent in front of the children   
* One hundred percent plan to avoid questioning their children about their other parent’s finances or relationships.   
* One hundred percent plan to avoid saying negative things about their children’s other parent in front of them.   
* One hundred percent agreed that the class should be required of all divorcing parents who have children. | 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. |
| Healthy Relationship and Marriage Education | This training is geared specifically for child welfare professionals with which provides information and strategies to strengthen couple and family relationships. The participants learned strategies and tools to help their clients in seven areas:   
1. Caring for one’s self   
2. Choosing to have a committed relationship   
3. Knowledge of partners and self   
4. Care for partner and self   
5. Sharing meaningful time together   
6. Managing conflict   
7. Connections between family, peers and community | At the time of the follow up, six of the 17 respondents had already used the program and information with their clients. When asked why the program was useful, they said the following:   
* “The clients benefit from the handouts and the discussions following.”   
* “The tools and knowledge gained about the importance of positive thoughts and communication and how it relates to family function and family history.”   
* “I find the tools helpful in engaging my people.” | When you support Healthy Relationship and Marriage Education, child welfare professionals learn strategies to help strengthen couple and family relationships which will help meet the safety, permanency, and well-being needs of vulnerable children in the child welfare system which benefits other community members by decreasing the number of children in foster care placements and increases the stability of at-risk families in the community. |

Mike Beetsma, Children’s Division Supervisor, participates in an exercise to show how stressors can overwhelm families.
## 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*

### HOUSING AND ENVIRONMENTAL DESIGN SPECIALIST

**CONNIE NEAL**

<table>
<thead>
<tr>
<th>Number of Daviess County 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>6 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>It provides citizens with the information needed so that they can simplify their cleaning, save money and improve their indoor environment.</td>
</tr>
</tbody>
</table>
**MISSOURI TAXPAYER EDUCATIONAL INITIATIVE**
Improving Family and Community Economic Impact with the Mo Tax Program

**Number of Taxpayers**
26 Taxpayers had their 2013 federal and/or Missouri income tax returns prepared for FREE and e-filed in Daviess County.

**Who Is The Audience?**
Filing statuses utilized in Daviess County were single and married filing jointly.

**What Did They Learn?**
Taxpayers learned:
- There are resources available to help them save their hard earned money and not to have to pay to have their tax return professionally prepared.
- There is more to having a tax return prepared than just crunching numbers. Education and learning is a part of the package with a VITA site.
- They learned where their county extension office is located and became aware of the vast amount of information, resources, and classes available thru the office, much of which is available at no cost.

**What Action Did They Take?**
Adjusted gross income (AGI) for all taxpayers was $437,244.
- Federal refunds totaled $15,321.
- Federal taxes owed $996.
- Missouri tax refunds $5364
- Missouri taxes owed $328.
- Earned Income credit $1441.
- Child Tax Credit $3000
- Property Tax Credit $3749
- Retirement Savings Credit $331.
- Child Dependent Care Credit $671.

**How Does This Make Daviess County and Missouri Better?**
The Missouri Taxpayer Educational Initiative and VITA program saves an average of $200 in tax preparation fees per family, per year, leading to families having increased cash flow, which assists in stimulating the local, county, and state economy.

Financial counseling during the tax preparation provides participants with important information about savings, risk management, and money management. This helps the participants and their families to be less dependent on others for financial support.

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Dr. Rebecca Travnichek prepares taxes for a Daviess County resident as part of the MOTAX-Missouri Taxpayer Education Initiative.
## AGRICULTURE – LIVESTOCK
**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 NW Counties and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 Beef Cattle Producers</td>
<td>County 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>700 FFA Students</td>
<td>Focus on Forages VI</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>108 Private Pesticide Applicators</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>Over the past few years, a great deal of northwest Missouri pasture and hay ground has been converted to row-crop production. University of Missouri Extension regional livestock and agronomy specialists are helping producers manage their limited forage resources for increased production and decreased cost.</td>
</tr>
<tr>
<td></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 parasite management strategies and understanding the cost of replacement heifer development.</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>One producer shared that I was able to cut his feed costs in half.</td>
<td></td>
</tr>
</tbody>
</table>
## Show Stock Production

<table>
<thead>
<tr>
<th>Number of Daviess 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 Sullivan County and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>The clinic was a 5-hour clinic for a total of 110 collective hours.</td>
<td>Participants learned: Basic care, feeding and show ring preparation of swine, goats, sheep and bottle calves and beef cattle. Participants reported they learned about water quality, deworming rotations, disease prevention and showmanship techniques. They also learned what judges look for while 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. <strong>Thirty-five percent</strong> of the participants reported they will train and work with their animal more as a result of this clinic. <strong>Forty-seven percent</strong> of the participants reported they feel more comfortable grooming their animal and feel more prepared to enter the show ring. <strong>Thirty percent</strong> of the participants reported they will change the way they feed and water their animals as a result of this clinic.</td>
<td>Youth exhibiting livestock are often future leaders in the livestock industry. Learning to properly care for their animals now, prepare 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, as <strong>ninety-six percent</strong> of the participants reported they feel more comfortable with their animal after this clinic.</td>
</tr>
</tbody>
</table>
### Beef and Forage Production Education

**Livestock Specialist**

*Jim Humphrey*

**Serving: Andrew, Buchanan, Caldwell, Clinton, DeKalb, Livingston and Ray counties in Northwest Missouri**

<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 Our Counties and Missouri Better?</th>
</tr>
</thead>
<tbody>
<tr>
<td>450 plus Cattle and Forage Producers</td>
<td>In total approximately 900 hours were spent in learning beef cattle production, forage production and utilization, nutrition management and ration balancing by area participants.</td>
<td>Strategies to optimize beef production and improve costs on their operations, including managing feedstuffs, pregnancy checking females, documenting individual animal performance throughout the entire production phase, including what determines value on each animal.</td>
<td>Beef and forage producers are better prepared to make informed decisions on their operations, regarding animal health, genetic selection, nutrition, as well as income and expenses that affect the bottom-line for their respective operations. Including reducing feed wastage and marketing low or non-productive animals in a more-timely manner.</td>
<td>Many beef producers contacting me are looking for answers to questions specific to their operation. By taking a total quality management approach for each operation we can help producers get the information and resources they need in a timely manner to improve the bottom line for their operations.</td>
</tr>
<tr>
<td>750 plus Youth participants</td>
<td>In total approximately 889 hours were spent by area youths learning conservation, water cycles and good agricultural production practices.</td>
<td>Strategies area beef and forage producers are using to optimize their operations while minimizing soil and nutrient losses and other negative impacts on the environment.</td>
<td>By having a better understanding of the research-based information and good production practices producers utilize on their operations, youths will be better able to understand why they as producers themselves need to be good stewards of their land and resources.</td>
<td>Well-informed youths are better prepared to make good management decisions based on research-based results. Youths are our future and provide great opportunities for our area.</td>
</tr>
</tbody>
</table>

Livestock Specialist

Jim Humphrey

Serving: Andrew, Buchanan, Caldwell, Clinton, DeKalb, Livingston and Ray counties in Northwest Missouri
### Agriculture – Commercial and Home Horticulture

**Education for Better Crops**

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

<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>Over 4500 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>
</tr>
<tr>
<td></td>
<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></td>
</tr>
<tr>
<td></td>
<td>Meetings for Commercial Ag producers</td>
<td>Introduction to Good Agricultural Practices and food safety</td>
<td>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.</td>
<td>Producing a good and safe food supply is critical for our nation. Whether it is though 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>
</tr>
<tr>
<td></td>
<td>Educating homeowners for their horticultural needs</td>
<td>Marketing options</td>
<td>Homeowners seeking help with horticultural problems learn not only how to combat the problem, but end up increasing property values.</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>County Ag Updates and Pesticide Applicator Training</td>
<td>Starting a horticultural farming operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Landscaping for homeowners</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plant care for homeowners</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Helping growers during the growing season is an important part of Horticulture Specialist Tim Baker’s responsibilities. Sometimes the problem can be corrected, but other times it cannot, such as the photos above. The tomato grower had used a brush killer on his land which eventually ended up in his pond. When he irrigated out of his pond, these greenhouse tomatoes took on bizarre shapes with distorted leaves. Since this was irrigation water, some of the chemical ended up in his soil.
### Program Name: Master Gardener

<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>20 Active Master Gardeners in ten counties</td>
<td>Master Gardener classes held in St. Joseph and Princeton</td>
<td>Basic plant botany</td>
<td>Master Gardener class trainees receive twelve weeks of in-depth training on all aspects of horticulture.</td>
<td>Master Gardeners provide a phenomenal amount of volunteer service to the community.</td>
</tr>
<tr>
<td>Over 300 volunteer hours</td>
<td>Master Gardener projects provide volunteer service to communities</td>
<td>Soils and fertility, Plant disease identification and control</td>
<td>They benefit them in their private gardens and landscapes, as they apply that knowledge to problems that inevitably arise.</td>
<td>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.</td>
</tr>
<tr>
<td>Over 300 direct contacts</td>
<td></td>
<td>Vegetable crop production</td>
<td>Participation in a local Master Gardener group also benefits that individual through continuing education.</td>
<td>The Daviess County Master Gardeners, for example, participate in the MO DOT 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>
</tbody>
</table>

Master Gardener classes are held every spring at varying locations around Northwest Missouri. Classes in the spring of 2014 were held in Princeton and St. Joseph. The above photo shows three of the four students who were taking the course in Princeton. Instruction was both live and via Interactive Television.

Continuing education is part of the Master Gardener experience. Here, the Daviess County group tours an iris and daylily farm in DeKalb County to learn about different cultivars and how they are produced.

The Daviess County Master Gardener group’s beautification project at the intersection of Missouri routes 6 and 13 included designing and creating a “Gallatin Missouri” sign to welcome travelers to town. The Master Gardeners also volunteer time to clean the area through the Adopt-A-Highway program.
Missouri State Fair Farm Families

Daviess County
Mike and Colleena Johnson Bird Family
Gallatin, Missouri

Caldwell County
John and Lana Crawford Family
Hamilton, Missouri
Daviess County Council

Chairman
Jayla Smith, Jamesport, appointed member, City of Jamesport

Vice Chairman
Raymond Heldenbrand, Winston, elected member

Secretary
Ginger Harlow, Gallatin, elected member

Treasurer
Alicia Chrisman, Gallatin, appointed member, 4-H

Other Members:
Marcia Bird, elected member
Carl Carder, Daviess County Commissioner
Frank Dunnington, appointed member
Eben “Bill” Estes, elected member
Colleena Johnson, elected member
Terry Jarboe, appointed member
Chretta Mastin, elected member
Bob Teegarden, NW Region 4-H Camp, appointed member
Melinda Uthe, elected member
Olin L. Vanderslice, appointed member

Unique partnership
Daviess and Caldwell Counties University Extension Councils are 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; and
- Elect and organize the local extension council.

Caldwell County Council

Chairman
Jerry Creason, appointed member

Vice Chairman
Donnie Cox, County Commissioner

Secretary/Treasurer
Dorthy Silvey, elected member

Other Members:
Rebecca Bowen, elected member
Jerry Cook, elected member
Kathleen Cramer, elected member
Jack Critchfield, appointed member
James Dotson, elected member
Elaine Farmer, elected member
Michael Pollard, elected member
Nathan Schaeff, elected member
Kyle Riegel, elected member
State, Federal and County Funding for Extension

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

Daviess County

Income

<table>
<thead>
<tr>
<th>Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0210 County Appropriations</td>
<td>30,100.00</td>
</tr>
<tr>
<td>Total Income</td>
<td>30,100.00</td>
</tr>
</tbody>
</table>

Expenses

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700 Personnel Salary and Wages</td>
<td>12,630.36</td>
</tr>
<tr>
<td>2800 Payroll Expenses</td>
<td>4,655.92</td>
</tr>
<tr>
<td>3100 Travel</td>
<td>4,257.92</td>
</tr>
<tr>
<td>3700 Telephone-Local</td>
<td>760.56</td>
</tr>
<tr>
<td>3800 Telephone-Long Distance</td>
<td>276.00</td>
</tr>
<tr>
<td>3810 Cell Phone</td>
<td>549.99</td>
</tr>
<tr>
<td>4300 Rent/Lease Space</td>
<td>50.00</td>
</tr>
<tr>
<td>4400 Rent/Lease Copier</td>
<td>1,497.50</td>
</tr>
<tr>
<td>5100 Supplies</td>
<td>2,308.09</td>
</tr>
<tr>
<td>5130 Newsletters (Regional)</td>
<td>402.00</td>
</tr>
<tr>
<td>6400 Other Contract Services</td>
<td>400.00</td>
</tr>
<tr>
<td>6800 Insurance/Surety</td>
<td>119.67</td>
</tr>
<tr>
<td>7010 Extension Council Elections</td>
<td>91.00</td>
</tr>
<tr>
<td>7040 Daviess County Farm Family</td>
<td>100.00</td>
</tr>
<tr>
<td>Total Expense</td>
<td>28,099.01</td>
</tr>
<tr>
<td>Net Income</td>
<td>2,000.99</td>
</tr>
</tbody>
</table>

Caldwell County

Income

<table>
<thead>
<tr>
<th>Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0210 County Appropriations</td>
<td>16,050.00</td>
</tr>
<tr>
<td>0320 Interest Income</td>
<td>15.95</td>
</tr>
<tr>
<td>1500 Postage Income</td>
<td>290.00</td>
</tr>
<tr>
<td>Total Income</td>
<td>16,355.95</td>
</tr>
</tbody>
</table>

Expenses

<table>
<thead>
<tr>
<th>Expense</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2700 Personnel Salary and Wages</td>
<td>5,000.00</td>
</tr>
<tr>
<td>2900 Non Payroll Salaries (YPA)</td>
<td>3,723.15</td>
</tr>
<tr>
<td>3100 Travel</td>
<td>1,800.68</td>
</tr>
<tr>
<td>3600 Postage</td>
<td>941.50</td>
</tr>
<tr>
<td>3700 Telephone-Local</td>
<td>760.56</td>
</tr>
<tr>
<td>3800 Telephone-Long Distance</td>
<td>275.99</td>
</tr>
<tr>
<td>4300 Rent/Lease Space</td>
<td>50.00</td>
</tr>
<tr>
<td>4400 Rent/Lease Copier</td>
<td>1,426.26</td>
</tr>
<tr>
<td>4800 Reproduction/Copy Services</td>
<td>460.83</td>
</tr>
<tr>
<td>5100 Supplies</td>
<td>286.90</td>
</tr>
<tr>
<td>5130 Newsletters (Regional)</td>
<td>433.20</td>
</tr>
<tr>
<td>6800 Insurance/Surety</td>
<td>119.67</td>
</tr>
<tr>
<td>7000 Miscellaneous</td>
<td>228.50</td>
</tr>
<tr>
<td>Total Expense</td>
<td>15,057.17</td>
</tr>
<tr>
<td>Net Income</td>
<td>1,298.78</td>
</tr>
</tbody>
</table>

University of Missouri’s Contribution to County Extension Program

University of Missouri provides salaries and benefits for all professional and all para-professional staff members headquartered in Daviess/Caldwell County.

The University provides in-service training expenses, including travel and lodging for staff, metered postage for staff communications and matching funds for computer equipment costs and maintenance.
Equal opportunity is and shall be provided to all participants in Extension programs and activities, and for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age, disability, or status as a Vietnam-era veteran. This policy shall not be interpreted in such a manner as to violate the legal rights of religious organizations or military organizations associated with the armed forces of the United States of America.