Dear Friends of Extension,

In 1992 the extension councils of both Morgan and Moniteau agreed to house the extension center for both counties in the Morgan County Courthouse. Since that time the University of Missouri Extension has provided researched-based information and educational programs to improve the lives of residents in both counties.

This unique partnership and cooperation of the two counties is a model for others in the state. Both councils and the extension staff appreciate the continued support of the county commissioners: James Bryant, Wayne Kroezen, Jr. and Rodney Schad from Morgan County and Kenneth Kunze, Tony Barry and Kim Roll from Moniteau County.

This Annual Report highlights a few of the programs that made a difference in 2015. We look forward to a continued partnership to improve the lives of the residents of Morgan and Moniteau Counties.

Wiesje Guhr                  Cathy Lovins
Morgan County Secretary     Moniteau County Secretary
Joni Harper
County Program Director

Elected or appointed members serve on their county extension councils as advocates for the University of Missouri Extension by providing assistance in setting and accomplishing program goals and objectives, developing an operating budget and determining educational priorities for the needs of the people in their local communities.

Morgan County Extension Council
2015
David Steinmeyer, chair
Dean Thiemann, vice chair
Wiesje Guhr, secretary
Belva Gerke, treasurer

MEMBERS
Joan Billington
Marcel Guhr
Ernie Hibdon
Daryn Hofstetter
Jason Huffman
Tom Hulse
Amanda James
Brian Lehman
Michael Letchworth
Marge VanEvercooren
Harold Waisner

Youth Representatives
Sarah Fergerson

James Bryant, county commissioner
Jay Bashore, MFA appt.
David Steinmeyer, Farm Bureau appt.

Moniteau County Extension Council
2015
Tammy Bleich, chair
Rose Massengill, vice chair
Cathy Lovins, secretary

MEMBERS
Don Basingerri
Sherry Cox
Nancy Hartman
Patricia Higgins
Devora Longan
Robert Rowles
Marna Williams

Youth Representatives
Sarah McCord
Mitchell
Tony Barry, county commissioner
Jim Leeper, MFA appt.
Chuck Massengill, Farm Bureau appt.

University of Missouri Extension provides equal opportunity 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 protected veteran.
December 2015

Dear County Commissioners and Friends of MU Extension:

Each year, University of Missouri Extension carries out the University of Missouri’s land-grant mission — bringing the university’s knowledge and research to all Missourians. For more than a century, we have been the “front door” to higher education in Missouri — helping to improve lives and create vibrant, resilient communities.

MU Extension is known as a valued and trusted resource for Missourians, touching the lives of nearly 2.3 million citizens. Our presence in all 114 Missouri counties, coupled with our network of councils, enables us to listen to the needs of communities, and respond with programming that addresses those needs. From our well-known programs in agriculture, nutrition and health, 4-H, and small business development, to lesser known continuing education programs for professionals such as fire and law enforcement training, nursing and medical continuing education and labor education, MU Extension makes a difference with programs that are in demand. The following are examples of program impact.

MU Extension’s Business Development Program helps Missouri entrepreneurs succeed in private enterprise and promotes statewide economic growth. In the past fiscal year, this program helped businesses increase sales by more than $157 million, secure loans and equity of nearly $100 million, create 1,832 jobs, and retain an additional 1,436 jobs. The program also helped to launch 213 new businesses in our state.

Alianza, a joint initiative of MU Extension and the Institute for Human Development at the University of Missouri – Kansas City, provides intercultural training to the growing segment of Latino farmers, and pairs them with the knowledge and services they need to help Missouri meet its agricultural needs.

4-H Youth Futures: College Within Reach, is designed to help high school youths who are not encouraged to attend college realize the benefits of a college degree. Studies show that an individual’s lifetime earning potential increases by an average of $2.3 million with a bachelor’s degree. This program makes a difference for many young people.

Strengthening communities through art, innovation and creativity is the focus of MU Extension’s Community Arts Program. The program’s 2015 St. Louis Storytelling Festival, which brought curriculum to life for 12,000 local school children, shows how extension adds value to communities through engagement with MU.

These examples are a small representation of the many ways MU Extension works to enrich lives, businesses and communities to strengthen Missouri. I encourage you to read the attached annual report to view the impact made in your county. On behalf of MU Extension, thank you for your support and partnership with us to better serve your community.

Sincerely,

Thomas A. Henderson
Interim Vice Provost and Director
The agronomy program provides producers and landowners information they need to manage their operations and increase the profitability and viability of their enterprises. With the support of the MU College of Agriculture, the local extension center works for local landowners by providing educational programs, one-on-one consultations, and technical services.

Over 818 adults from Moniteau and Morgan counties were reached in 2015 with activities and programs such as crop management, forage production, cover crop management, plant protection against insect and disease, weed identification and soil fertility.

<table>
<thead>
<tr>
<th>Topic or Program</th>
<th>What Participants Learned</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Private Pesticide Applicator Training</strong></td>
<td>• The principles of biological control and methods of non-chemical pest management.</td>
<td>The proper and judicious use of all pesticides not only protects everyone’s environment it also will help to protect the pesticide technology to prevent resistance build up in the pest population. This is beneficial to both the producer and the community in that the producer can provide a more affordable and dependable food supply and contribute to the local economy and preserve the environment at the same time.</td>
</tr>
<tr>
<td></td>
<td>• The importance of and information provided by pesticide label.</td>
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<tr>
<td></td>
<td>• How to properly handle various classes of chemicals especially Restricted Use Pesticides (RUP).</td>
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<tr>
<td></td>
<td>• To consider environmental impacts when selecting a pesticide for use.</td>
<td></td>
</tr>
<tr>
<td><strong>Weed ID Workshop</strong></td>
<td>• This weed identification and weed control clinic allowed participants to better identify weed pests in pastures and hayfields. Live examples of weeds were collected and shared for participants to understand the biology and invasiveness of weeds. Most of the program was dedicated to an understanding of how to control weeds including forage management tactics and herbicide options.</td>
<td>By decrease weeds in their pastures and hay field they can increase forage production and fertilizer use efficiency. Increasing efficiency and forage production can increase farm revenue. Learning to control and prevent the spread of weeds can decrease the spread of noxious/invasive weed species. Thus, the county and state benefits.</td>
</tr>
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</tbody>
</table>
Commercial Horticulture Highlights

Missouri Grown and Community Food Systems programs
The climate, soils and population base of Missouri are conducive to growing of certain high-value horticulture crops such as tomatoes, berries, melons, wine grapes, and peaches.

Over 159 adults from Moniteau and Morgan counties were reached in 2015 with activities such as the following:

<table>
<thead>
<tr>
<th>Topic or Program</th>
<th>What Participants Learned</th>
</tr>
</thead>
<tbody>
<tr>
<td>One on One contacts</td>
<td>MU Extension provides growers with unbiased and research-based information to make better decisions and help them be successful with commercial production and marketing of their crops. MU Extension provides this through workshops, newsletters, field days, farm tours, grower conferences and other methods.</td>
</tr>
<tr>
<td>Annual growers conferences</td>
<td></td>
</tr>
<tr>
<td>Produce auction model</td>
<td></td>
</tr>
<tr>
<td>A quarterly newsletter mailed to vegetable growers who market extensively at produce auctions.</td>
<td></td>
</tr>
</tbody>
</table>

Ozark Prairie Master Gardeners

The mission of the Missouri Master Gardener Extension Program is “helping others learn to grow.” The Master Gardener program provides in-depth horticultural training to individuals throughout Missouri who then volunteer their time applying what they have learned to help others in their communities to learn about gardening and environmental education.

Ozark Prairie Master Gardeners have contributed 3,423 volunteer hours during 2015.

The Ozark Prairie Master Gardeners were involved in the following projects during 2015:
- Conducted a successful plant sale in April with many of the plants being started from seed by the members themselves.
- Planted and maintained a community garden in Versailles.
- Started a new pollinator garden.
- Conducted Lawn-of-the-Month judging in Versailles and Stover.
- Taught "Dirt to the Dinner Table" adult education program.
- Sponsored a "Cabbage Patch" contest along with pumpkin carving at the local schools.

Ozark Prairie Master Gardeners have for several years supported the Morgan County Fair by helping set up and maintain the Home Economics Building, providing judges for some categories and the chairing of several events.
Livestock Education Highlights

Gene Schmitz

Beef cattle production is a large part of agricultural production in Morgan and Moniteau County. Programming focused on nutrition, and forage production and management. This was accomplished through:

- News releases in county and area newspapers
- Quality Assurance Training
- Mid-Missouri Grazing Conference
- Tri-County Dairy Day
- Veterinary update on toxic plants
- Show-Me-Select Replacement Heifer Development Program
- Novel endophyte tall fescue research updates

<table>
<thead>
<tr>
<th>Topic or Program</th>
<th>Number of County Participants</th>
<th>What Participants Learned</th>
<th>How does this make Morgan and Moniteau County better?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Show-Me-Quality Assurance Training</strong></td>
<td></td>
<td>• 4-H youth receive training on animal production and management</td>
<td>Producer profits, and thus the local economy, are benefitted from the above programming by:</td>
</tr>
<tr>
<td><strong>Show-Me-Select Replacement Heifer Development Program</strong></td>
<td></td>
<td>• Participants are using artificial insemination to improve the genetic quality of replacement heifers in their own herds and producing replacement heifers for sale.</td>
<td>• Reduced production expenses.</td>
</tr>
<tr>
<td><strong>Forage Production Systems</strong></td>
<td>246 direct contacts</td>
<td>• Understanding Hay test results: survey indicated a 31% increase in knowledge by participant. 82% plan to adopt a new management practice or change an existing practice as a result of what they learned</td>
<td>• Increased efficiency of resource use.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Area dairy producers learn management practices to improve production techniques and animal management.</td>
<td>• Improved beef cattle genetics.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Grazing dairy pasture producers learned management techniques specific to grazing dairy production.</td>
<td></td>
</tr>
</tbody>
</table>
**4-H in Morgan and Moniteau Counties**

**Dana Joerling**

4-H is a community of youths building life skills, engaging in science and connecting to community. One of every five Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2015.

<table>
<thead>
<tr>
<th>Topic or Program</th>
<th>Number of County Participants</th>
<th>What Participants Learned</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
</table>
| Morgan & Moniteau County 4-H Clubs  | Morgan County                  | 6 Clubs
94 Members
56 Trained Volunteers
Moniteau County
7 Clubs
157 Members
119 Trained Volunteers
42 attended 4-H Camp
10 participated and placed at State Shooting Sports Contest
3 attended State 4-H Congress
12 attended Teen Conference
1 high school graduate from Moniteau Co. was awarded State and County 4-H Scholarships | 4-H clubs offer long-term educational experiences in which members learn life skills such as:
• decision making
• public speaking
• working with others
Members learn by doing under the guidance of adult volunteers. Some projects are:
• robotics and engineering
• animal care and showing
• shooting sports
Clubs also involve children and teens in community service, camping and educational trips. | Active 4-H members spend almost ten times more of their out-of-school time engaged in science-based activities than their non-4-H peers. Project work builds important life skills.

Missouri young people who are 4-H participants report significantly more leadership experiences and higher scores on internalizing the value of service than their non-4-H peers.

Communities reap long-term benefits by supporting programs such as 4-H. Youths engaged in the programs are 60 percent more likely to vote than their non-engaged peers. In addition, 4-H youths are more likely to volunteer and contribute to their communities than youths participating in other youth programs.

Children who participate in 4-H for at least one year by 8th grade were 3.5 times more likely to contribute to their families, themselves and their community. 4-H members excel in leadership and volunteer service. Equally important, active 4-H'ers report fewer unhealthy behaviors such as drinking, smoking, and other drug use. |
**4-H Connects Kids to College and a Higher Quality of Life**

Missouri 4-H members are twice more likely to have been on a college campus than their non-4-H peers. University of Missouri is by far the campus most frequently visited and 4-H is the second most reported reason to be on the MU Campus (Lerner, 2008). Being on a campus is a predictor of youth going on to higher education (Hoover, 2006).

*Mitchell Moon attended National 4-H Congress in November.*

*Moniteau County Youth attended Camp Clover Point in November.*

*Autumn Batson and Alainya Schuster attended State 4-H Congress.*

*Matthew Iman and his champion doe at the Missouri State Fair.*

*Morgan County Youth attended Camp Clover Point in March.*

*Averee, 13, "When we planted the flowers for New Hope Home, it made me feel good that I could plant them and that when someone looks at..."*
Human Environmental Sciences Extension promotes optimal well-being of individuals, families and communities, with special recognition for the needs of vulnerable populations. This is accomplished through the application of research from the following subject area:

<table>
<thead>
<tr>
<th>Program, Workshop, Number of Learners</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
</table>
| **Who Gets Grandma’s Yellow Pie Plate?**  
8 participants | Dividing non-titled personal property on an equal basis is sometimes difficult. Handling conversations about sensitive issues, handling conflict, and distribution options. | Be responsible for starting the conversation, talk about sensitive issues, define what is fair for their family, and identify distribution options. | Learners in GYPP sessions reduce or avoid conflict within families over distribution of non-titled estate property, which leads to prevention of families being fractured for generations, which benefits other community members by easing stress on overburdened probate courts. |

Extension’s Business Development Program (BDP) helps people to improve sales, start businesses, and obtain government contracts, all of which contributes to creating and retaining jobs and improving the local economy. BDP clients can be either existing businesses or those wanting to start a business, either way, they can access counseling, training, and other services at no cost.

In Morgan and Moniteau county five residents and businesses received counseling or coaching. As a result of assistance provided by the MU Extension Business Development program eight government contracts totaling $2,642,397 were awarded to businesses in Morgan County during FY2015.

Although a specialist is not located in the counties, services can be accessed from the center most convenient to the client from the listing of centers available on our website: [http://www.missouribusiness.net](http://www.missouribusiness.net)
University of Missouri Extension Family Nutrition Education Programs (FNEP) reached 12,478 low-income participants with nutrition education in Morgan and Moniteau counties during 2015. FNEP provides information on nutrition, food safety and physical activity for lifelong health and fitness. Participants are served through schools, community groups and agencies.

<table>
<thead>
<tr>
<th>Topic or Program</th>
<th>Number of County Participants</th>
<th>What Participants Learned</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrition Education for Youth</td>
<td>2,622 participants in Morgan and Moniteau County</td>
<td>Nutrition Education for youths provides information in kid-friendly terms and lessons with hands-on activities. Activities include opportunities for taste-testing healthy foods and practicing skills that lead to good health.</td>
<td>Participants in FNP become more aware of nutrition, make healthier meal and snack choices, eat breakfast more often, are more willing to try new foods, increase their physical activity and in general make healthier food choices. Those 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.</td>
</tr>
<tr>
<td>Programming in the following places:</td>
<td>in Moniteau County: Clarksburg Elementary Latham Elementary Tipton Elementary Pee-Wee Preschool, LLC Little Pinto’s Preschool and Playhouse, LLC In Morgan County: Loving Hands Preschool Morgan Co. Elementary Morgan Co. Middle St. Paul’s School Versailles Head Start</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Show Me Nutrition for Adults</td>
<td>9,856 adults from Morgan and Moniteau county.</td>
<td>Adults taught about health recipes and are given information on low cost food preparation and physical activity tips.</td>
<td>In addition, this important programming effort serves to reduce health care costs over the participant’s lifetime, saving taxpayers money in reduced public health care benefits.</td>
</tr>
</tbody>
</table>
### Building Better Child Care for Missouri: Training for Child Care Providers

<table>
<thead>
<tr>
<th>Program, Workshop, Number of Learners</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
</table>
| 110 residents attended a 2-hour childcare provider training. Topics included:  
• Taking Care of You  
• Eating Well  
• Healthy Habits for Life  
• Moving & Learning | • The importance of child care providers in instilling healthy habits.  
• What the benefits are of following the Eat Smart Guidelines | Participants reported they would take action on at least one new thing they learned in training, the very next day with the children they work with. | Our continued efforts to improve child care are vital to Missouri’s economic development; a well-prepared and educated child care workforce is essential for families’ workplace success and children’s healthy development. |

### A Matter of Balance: Managing Concerns about Falls

<table>
<thead>
<tr>
<th>Program, Workshop, Number of Learners</th>
<th>What Did They Learn?</th>
<th>What Action Did They Take?</th>
<th>How Participants and Counties Benefit</th>
</tr>
</thead>
</table>
| 10 residents participated in this 8-week series. | • To view falls as controllable.  
• To set goals for increasing activity.  
• How to make changes in the home to reduce risk of falling.  
• Exercises to increase strength and balance. | After attending this class all ten of the participants reported they have felt more comfortable increasing their activity. | Participants 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. |
Morgan and Moniteau County
2015 Century Farms

The Missouri Century Farm program’s history dates back to 1976. This program awards certificates to persons owning farms that had been in the same family for 100 years or more.

Moniteau - The Hallford farm. Owned by John & Nicole Hallford. Established in 1889 by great grandfather William R. Hallford

Moniteau - Leroy F. Knipp’s farm was established in 1902 by Leroy’s great Uncle William Knipp.

Morgan - Inez M. Kreglinger Eddy & Daren Eddy Farm. This farm was established in 1859 in the Stover area by Inez’s great grandfather and Daren’s great-great grandfather, Theodore Kreglinger.

Moniteau—Mary Sue Meyer Allee. The Medlen Family Farm was acquired in 1878 by Mary’s grandfather John W. Pennington.

Moniteau - Linda Oligschlaeger and David Orscheln Established in 1869 by Peter Joseph Schmidt, great grandfather in 1899.
In 2015, the extension center faculty and staff assisted more than 1,180 citizens. This included inquiries by telephone, email or in person.

Some of the services provided during the past year included:

- 295 soil tests analyzed for farmers, gardeners, and homeowners.
- 14 samples to University Labs.
- 117 private pesticide applicator recertification/certifications administered.
- More than 2,186 Morgan and Moniteau county residents were reached through farm visits, phone calls, email, and office visits. Information and technical assistance in the areas of crop management, forage production and home horticulture were given.
- Over 2,201 publications were provided in response to inquiries on topics such as horticulture, agronomy, agriculture, food safety, nutrition, and 4-H/ youth development.
- 5,030 mailings of Ag in Focus and 4-H mailings were sent to individuals, families, and farmers.
- 250 businesses and individuals supported the 4-H auctions at the county fairs.
- 10 pressure canner gauge tests.
- 24 Moniteau and 26 Morgan county residents received training at the MU Fire & Rescue Institute.

- 160 Morgan and Moniteau county residents attended evening or off-campus credit and non-credit courses offered by University of Missouri.
- 75 people attended the Extension Family Night Dinner held in August.
- 6 families achieved the distinction of owning a Missouri century farm. This means that the farm has been in the same family for 100 years or more.

2015 State Fair Farm Families

Shawn & Kenda Bauer Family
Morgan County

Moniteau County

Steve & Juanita Zimmerman Family
## Morgan and Moniteau County Extension

### Financial Report for 2015

<table>
<thead>
<tr>
<th>Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morgan County Appropriations</td>
<td>$37,300.00</td>
</tr>
<tr>
<td>Moniteau County Appropriations</td>
<td>$12,150.00</td>
</tr>
<tr>
<td>Total Income</td>
<td>$49,450.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenses</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Staff Salary</td>
<td>$28,766.36</td>
</tr>
<tr>
<td>Payroll Expenses</td>
<td>$2,901.99</td>
</tr>
<tr>
<td>Telephone/Internet</td>
<td>$2,423.89</td>
</tr>
<tr>
<td>Travel</td>
<td>$4,810.90</td>
</tr>
<tr>
<td>Advertising</td>
<td>$146.49</td>
</tr>
<tr>
<td>Publishing/Printing</td>
<td>$706.20</td>
</tr>
<tr>
<td>Supplies</td>
<td>$3,571.85</td>
</tr>
<tr>
<td>Insurance</td>
<td>$143.00</td>
</tr>
<tr>
<td>Misc</td>
<td>$219.15</td>
</tr>
<tr>
<td>Council Election</td>
<td>$107.28</td>
</tr>
<tr>
<td>Repairs</td>
<td>$98.92</td>
</tr>
<tr>
<td>Furniture/Equip</td>
<td>$355.31</td>
</tr>
<tr>
<td>Total Expenses</td>
<td>$41,344.35</td>
</tr>
</tbody>
</table>

## Regional Faculty

**Serving Morgan and Moniteau Counties**

- Wayne Prewitt, regional director west central region
- Brent Carpenter, ag business specialist
- Connie Mefford, community development specialist
- James Quinn, horticultural specialist
- Kent Shannon, natural resource engineer specialist
- Gene Schmitz, livestock specialist
- Chris Thompson, business and industry specialist
- Sarah Traub, human development specialist
- Megan Webb, nutrition and health education specialist

**Visit our Web sites**
- extension.missouri.edu/Morgan
- extension.missouri.edu/Moniteau