

2018 ANNUAL REPORT

UNIVERSITY OF MISSOURI EXTENSION

Callaway County



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Dear county commissioners and friends of MU Extension,

The past year has been extremely productive for University of Missouri Extension and Engagement. With the launch of our county engagement specialist model, which is the centerpiece of a long-overdue restructuring, we are better positioned to serve Missourians.

Most county engagement specialists are now in place and the formal training for this new position rolled out this fall. By January 2019, we expect our CESs to be well on their way to success. I see a great future for them and the communities they serve.

At the MU campus, we have been busy putting in place online resources that will benefit Missouri communities. In particular, the All Things Missouri web portal is an exciting tool that can help community leaders search for valuable data. I encourage you to check it out at <https://allthingsmissouri.org/>.

When 2018 began, we set out to meet with every county's administrative body. This effort provided valuable insight and helped strengthen relationships; and as a result, we will engage in a similar effort in 2019. Meeting stakeholders and deepening county relationships is something we truly enjoy.

As you read your county's annual MU Extension report, I am confident that you will be pleased with the results accomplished through county-based University of Missouri faculty. Our faculty take pride in their efforts to respond to local extension council input.

At the state level, we have committed to a goal of doubling the economic impact of MU Extension over the next decade. This goal of \$2 billion in public value is ambitious — but, by meeting this challenge, we will help a great many Missourians.

Your support of MU Extension and our efforts in your community are greatly appreciated. As always, I welcome your input on how the University of Missouri can better serve your community and its people.

Sincerely,



Marshall Stewart

Who we are

Callaway County Extension Council

John Braun
 Aimee Busalacki
 Cody Cave
 Gary Jungermann
 Hadley Linnenbringer
 Mike Musgrove
 JenEtta Pauley
 Mary Rohrbach
 Larry Teson
 Richard Vaughn

Callaway County faculty and staff

Christal Huber
 County Engagement Specialist
 in 4-H Youth Development

Anita Ellis
 Field Specialist in Livestock

Sarah Rohrbach
 4-H Youth Program Associate

Rhonda Duckworth
 Administrative Assistant

Staff serving Callaway County, (based in other counties)

Matthew Herring
 Intern Regional Director

Elizabeth Smith
 East Central Regional Director

Rusty Lee
 Field Specialist in Agronomy

James Quinn
 Regional Horticulture Specialist

Heather Warren
 Nutrition Program Associate
 Family Nutrition Education
 Program

Staff serving Callaway County, (based in other counties)

Mary Sobba
 Agriculture Business

Chantae Alfred
 Family Financial Education
 Specialist

Charles Ellis
 Field Specialist in Agricultural
 Engineering

Dean Larkin
 County Engagement Specialist
 in Community Economic
 Development

Kent Shannon
 Natural Resource Engineer
 Specialist

Chris Thompson
 Associate Ext. Professional
 Business Development

Lynda Zimmerman
 County Engagement Specialist
 in Economic Development

John Gulick
 County Engagement Specialist
 in Economic Development

Patricia Snodgrass
 Housing and Environmental
 Design

Callaway County Commissioners

Gary Jungermann
 Presiding Commissioner

Randall Kleindienst
 Eastern District

Roger Fischer
 Western District

State legislators

Jeanie Riddle
 Senator

Jay Houghton
 Representative

Travis Fitzwater
 Representative

About us

Location:
 5803 County Road 302
 Fulton, MO 65251

Hours:
 8:00 am – 4:30 pm

Contact info:
 573-642-0755

Private Pesticide Applicator Training

Rusty Lee Filed Specialist in Agronomy

Number of Callaway County residents served

Twenty-three Callaway County citizens participated in the Private Pesticide Applicator training facilitated by Rusty Lee, Field Specialist in Agronomy.

Total Hours of Collective Workshop Participation in 2018

This 2.5-hour program gave a collective learning total of 57.5 education hours.

What Did They Learn?

Upon completion of the training, participants were able to:

1. Recognize the need to correctly identify pest organism prior to choosing a pest management strategy.
2. Understand the concept of economic thresholds and economic injury levels when making pest management decisions.
3. Possess a basic understanding of biological control and other non-chemical methods of pest management.
4. Better understand the format and information provided on each pesticide label.
5. Recognize the importance of using label information in all phases of application.
6. Understand the importance of having a Material Safety Data Sheet, and other materials available when applying pesticides.
7. Understand the need for proper selection and use of protective clothing and safety equipment.
8. Understand the importance of the "Restricted Use Pesticide (RUP) designation for certain pesticides
9. Consider environmental impacts when selecting a pesticide for use.
10. Consider impact of pesticides on water sources when applying a pesticide.
11. Understand the need and procedure to develop an emergency plan (fire, storm, flood, other) with local emergency officials.

How Does This Work Make Callaway County and Missouri Better?

Enables farmers to meet the legal requirements mandated by the Environmental Protection Agency and the Missouri Department of Agriculture's Bureau for Pesticide Control on the safe and proper use of agricultural pesticides on their farmlands, including restricted-use pesticides (RUPs).

This enables farmers to meet society's demands for lessening agriculture's environmental impact.

MU Soil Lab Fertility Test Samples

Rusty Lee Field Specialists in Agronomy

Number of Callaway County residents served

Callaway County submitted 296 of the 9,904 samples submitted state-wide to the MU Soil Lab Testing Services

Total Hours of Collective Workshop Participation in 2018

What Did They Learn?

Test results and recommendations of fertilizer applications were mailed to the customers that had submitted their samples. Follow-up consultations were provided by Field Specialist in Agronomy, Rusty Lee, as customers needed additional assistance interpreting the results and recommendations.

Increases in grain yield and forage tonnage are expected when elements of fertility are deemed required.

21% required lime for pH corrections.

74% required Phosphorus additions.

18% required Potassium additions.

How Does This Work Make Callaway County and Missouri Better?

Enables farmers to manage their soil fertility by first knowing current levels and which added elements would generate a return on investment.

Promotes farm sustainability by keeping land productivity at a high level.

Reduces unnecessary expenses of applying costly fertilizer at a level above what can be utilized.

Reduces environmental impact from the off-target movement associated with over-application.



Horticulture

James Quinn Field Specialist in Horticulture

Callaway County residents participated in the Take Control of Your Finances Educational Seminars in Warrenton

Number of Callaway County residents served

Callaway County participants that include:

171 individuals requested or received information in the following methods:

- Phone.
- Walk-in.
- Email.
- Facebook messages.
- Educational presentations.
- Field days
- Workshops.

Total Hours of Collective Workshop Participation in 2018

The average interaction was about 30 minutes, thus:

- 80+ hours of educational interaction.

What Did They Learn?

Unbiased, research-based information on selecting, planting, and maintaining fruit, vegetable and ornamental species around the home, including ways to benefit pollinators.

Information on effective and environmentally responsible pest management strategies around the garden and home.

From soil test results, information on correct fertilizer amounts and types as well as application timing and methods. Suggestions to improve overall soil health.

What Action Did They Take?

Dissemination of high quality, unbiased, research-based horticultural information to a broad spectrum of Missourians allows the state's citizens to reap the benefits of improved gardening success.

Advice provided on pest identification, prevention or control, can lead to:

- More judicious use of pesticides
- Less harm to the environment
- An economic savings with reduced cost or enhanced protection of a product of value.

Soil test recommendations, if followed, can lead to:

- Better plant growth, thus better return on \$\$ spent.
- Less harm to the environment from fertilizer runoff and soil erosion



Beef Cattle Meetings

Anita Ellis Field Specialist in Livestock

Number of Callaway County residents served	47 adults and 2 youths for first meeting. Over 100 youths for second meeting
Total Hours of Collective Workshop Participation in 2018	3 and 4 hours respectively
What Did They Learn?	<p>The first meeting included: Maintaining records for cow/calf operations & the difference between Modified Live Virus vs Killed vaccine.</p> <p>The second meeting included: from farm to table sessions for high school students of how beef cattle are raised, nutrition, animal welfare, cuts of beef</p>
What Action Did They Take?	<p>First meeting; participants engaged with speakers in discussion regarding the topics and how it impacts their operation.</p> <p>Second meeting: students engaged with speakers in discussion regarding the topics and took part in some hands on activities.</p>
How Does This Work Make Callaway County and Missouri Better?	Both meetings provided improved knowledge of topics and concerns of beef cattle production. The first meeting had the potential to positively impact producer's beef cattle systems, the second provided improved knowledge on how cattle are raised in the county.

Livestock Newsletter

Anita Ellis Field Specialist in Livestock

Number of Callaway County residents served	22
What Did They Learn?	<p>A monthly newsletter was sent out to livestock producers that signed up to update them on current livestock issues, basic topics on multiple species, and local livestock events. Producers were given the option to be on the email/mailling list at events or could view on online version on their local Extension website. Several Osage county producers signed up throughout the year. As a result, this was a reliable source of what was going on in their area.</p> <p>The subscribers learned about:</p> <ul style="list-style-type: none"> • Upcoming events • Beef cattle, Sheep, Horse, etc. basics • Hot topics such as nitrate toxicity this summer • Show Me Select Sale summaries <p>Due to subscriber request, this Newsletter will continue on a bimonthly basis as a means of keeping connected with those that still prefer print and those that prefer the on-demand/downloadable virtual version.</p>



Stockpile and Winter Feed Options Workshop

Anita Ellis Field Specialist in Livestock

Number of Callaway County residents served

28

Total Hours of Collective Workshop Participation in 2018

4 hours

What Did They Learn?

: Anita Ellis, Rusty Lee, and Dr. Eric Bailey discussed Different Forage options and implementing your stockpile plan, Winter Feed Options and Nutritional Considerations, & Matching Livestock to your Environment. Participants learned hay alternatives and methods to quickly implement for a more affordable and nutritious feed source for their cattle for the upcoming winter since hay is in short supply. Many participants asked how to specifically implement these methods for their particular operation.

How Does This Work Make Callaway County and Missouri Better?

Due to the drought that was affect producers by impacting hay supply, we discussed other forage options and feeding alternatives to string out what little hay supply producers had. This would allow them to ride out a tough seasonal situation and maintain the animals they have and meet their nutritional needs

Pearls of Production

Anita Ellis Field Specialist in Livestock

Number of Callaway County residents served

4 adults, 2 youth

Total Hours of Collective Workshop Participation in 2018

2 days

What Did They Learn?

Participants learned about activities of the Missouri Department of Agriculture from director Chris Chinn, Stanton Brothers cage-free egg laying operation, and a biosecurity presentation given by Bill Pittenger with the Missouri Department of Agriculture. The final day had 3 breakout sessions including Biosecurity, Beef Cattle, and a shop session

How Does This Work Make Callaway County and Missouri Better?

Hands on programs like this are improve experience and allow participants to ask questions as they experience a session. Women continue to play a large role in all facets of agriculture.



Family Financial Education

Chantae Alfred Field Specialist in Family Financial Education

Local residents and community leaders attended the Making Money Count training program to learn to make sound financial decisions that help them pay bills on time, maintain a positive credit report and build savings and plan for the future. Strategies are taught to encourage individuals to save money, reduce debt and build wealth.

Number of Callaway County residents served

10 Callaway County participants

Total Hours of Collective Workshop Participation in 2018

Twenty hours of training for participants

What Did They Learn?

Making Money Count Workshop included:

- Setting Financial Goals
- Recognize the difference between needs and wants
- Identify values and why they are important
- Financial Decision-making
- Credit and credit reports
- Ways to save for the future
- Developing a spending plan

What Action Did They Take?

Participants set financial goals as well as completed net worth statements. They prioritized debts, discussed needs versus wants, identified community resources, and discussed ways to avoid debt and credit scams. Participants developed written financial plans and agreed to get a copy of their credit report and monitor their credit.

How Does This Work Make Callaway County and Missouri Better?

Improved financial knowledge leads to improved personal finances. People have more choices in making financial decisions. Participants in Making Money Count education programs, check their credit reports more frequently, which leads to stronger credit histories, which benefits community members by reducing the amount of time financial distressed workers spend focusing on financial issues at work.

Improved personal finances helps to keep Callaway County residents and the economy moving in the right direction. A more informed Callaway County, decreases reliance on predatory lenders; less bankruptcy filings; and decreased dependency in programs that add costs to the county, state of Missouri, and the nation overall.



Family Financial Education

Chantae H. Alfred Field Specialist in Family Financial Education

Callaway County residents participated in the Take Control of Your Finances Educational Seminars in Warrenton

Number of Callaway County residents served

Take Control of Your Finances – Two Callaway county residents
 One - Lincoln county resident
 Eleven – warren county residents
 One – St. Louis County resident
 Two – Montgomery County residents

Total Hours of Collective Workshop Participation in 2018

Take Control of Your Finances – 34 hours for Callaway, Lincoln, Warren, St. Louis and Montgomery county residents

What Did They Learn?

The Don't Panic, Take Control of Your Finances curriculum provides information about filing for unemployment benefits, talking to family about finances, reviewing available personal resources, developing a budget, setting priorities for debts, contacting creditors, stopping credit purchases, and considering available community resources. The program operates in collaboration with Business and Industry under a state contract with the Department of Economic Development. Local Career Centers work with Extension specialists to arrange workshops and recruit participants.

What Action Did They Take?

Participants apply what they have learned to manage their family resources during periods of unemployment and underemployment. Participants minimize the negative effects of unemployment on their family; secure other employment or identify other strategies to earn money.

How Does This Work Make Callaway County and Missouri Better?

Callaway County and Missouri benefit with the increased knowledge. The information helps residents manage their family resources during periods of unemployment or underemployment. Participants minimize the negative effects of unemployment on their family, which reduces stress as well as a drain of resources from agencies. A more informed Callaway County, decreases reliance on predatory lenders; less bankruptcy filings; and decreased dependency in programs that add costs to the county, state of Missouri, and the nation overall. Improved personal finances helps to keep Callaway County residents and the economy moving in the right direction.



FINANCIAL EDUCATION
 ...equips people with
KNOWLEDGE and **SKILLS**
 and strengthens their **ATTITUDES**
 and **BELIEF IN THEMSELVES**
 to make and exercise
INFORMED, CONFIDENT, and TIMELY
 money management **DECISIONS.**



4-H Youth Development

Christal Huber CES in 4-H Youth Development
Sarah Rohrbach YPA in 4-H Youth Development



Number of Callaway County residents served

- 199 4-H members in Callaway County.
- 484 youth participating in school enrichment programs
- 111 trained youth and adult volunteers.

Total Hours of Collective Workshop Participation in 2018

Across the entire state, one of every five Missourians between the ages of 5 and 18 participated in a MU Extension 4-H Youth Development program in 2018.

Volunteers are the core of the 4-H Program. They help to create, support and deliver educational programs and experiences. Missouri 4-H volunteers report contributing on average 100 hours per year to the program. Valuing their time at \$24.14 per hour (Independent Sector, 2017), the contribution of Callaway County 4-H volunteers was worth more than \$19,408 in 2018. More importantly, these individuals serve as role models and mentors for youth.

What Did They Learn?

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 shooting sports and sport fishing.

Clubs were also engaged in leadership and service experiences in their communities.

What Action Did They Take?

4-H brings youth and adults together to learn everyday skills with hands-on learning. Activities from animal and plant science to robotics, teach 4-H members problem-solving skills, which makes a positive impact upon their community.

Findings from a 2018 Missouri State Wide Evaluation Found:

Develops Leadership

81% of the Missouri 4-H'ers surveyed said they find it easy to speak up in a group.

89% reported feeling comfortable being a leader.

95% said 4-H is a place where they get to help make group decisions.

95% said 4-H is a place where you have a chance to be a leader.

97% said 4-H is a place where you learn about ways to help your community

Builds Initiative

92% of Missouri 4-H'ers surveyed said they are willing to try something they might get wrong.

93% said they keep trying until they reach their goals.

97% said they try to learn from their mistakes.

98% said they are willing to work hard on something difficult.

99% reported that they like to learn new things.

Builds Connections for a Bright Future

92% said they like to learn about people who are different from them, and get along.

93% said they think about others feelings before they say something.
 93% say they think about how their choices affect others.
 97% said they treat others the way they want to be treated.
 98% said they show respect for others ideas.

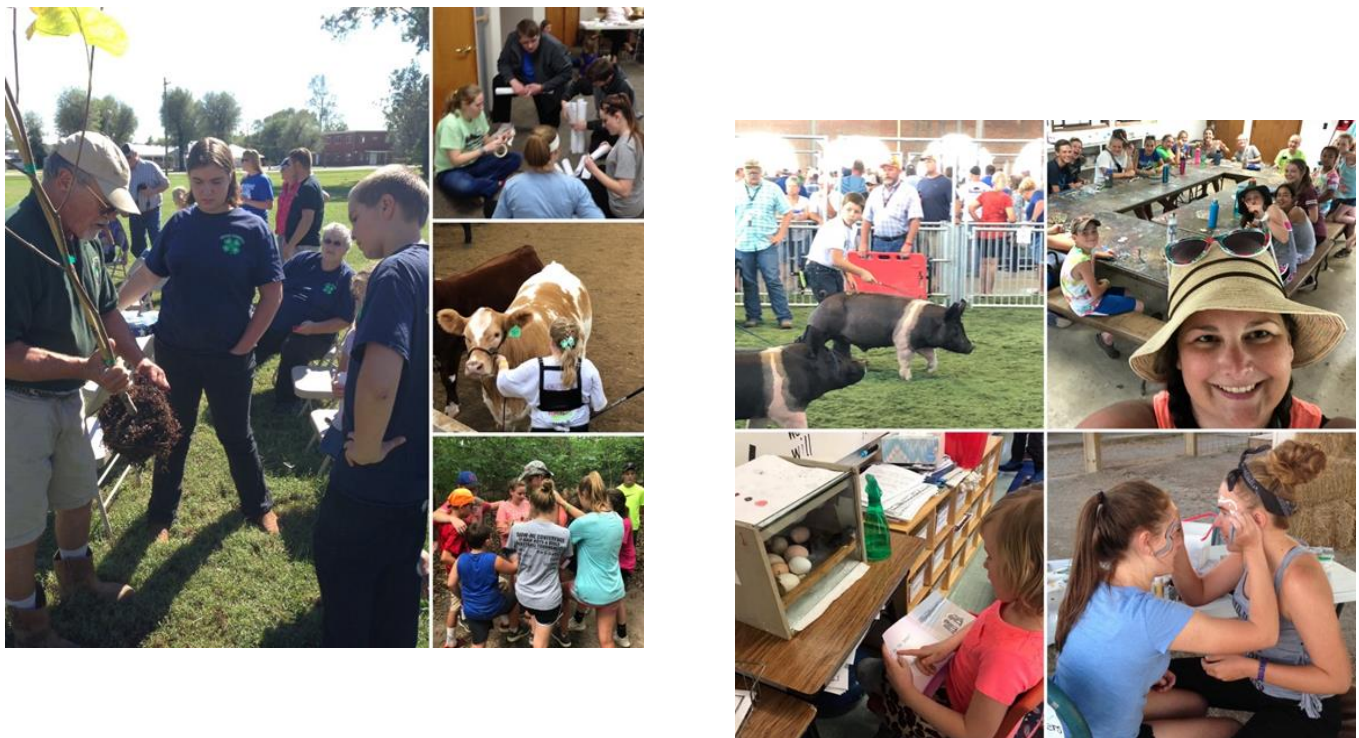
How Does This Work Make Callaway County and Missouri Better?

4-H'ers are twice as likely to go to college compared to their non 4-H peers and they tend to pursue careers in STEM fields (Lerner & Lerner, 2011). In 2018 Missouri 4-H connected 4,818 young people to University of Missouri campuses. Being on campus is a predictor of youth going onto higher education (Dalton & St. John, 2016).

Youth who earn a bachelor's degree increase annual earnings by \$2 million over their lifetime (U.S. News and World Report, 2011). If 50% of the Callaway youth participating in 4-H events on a college campus receive a Bachelor's degree, 4-H would help young people acquire \$20,000,000 more in lifetime earnings

4-H also prepares youth for the work place. Youth must be prepared to live and work in a world we cannot completely envision – competing for jobs that do not yet exist, using technologies that have not yet been invented to solve problems that have yet to be identified. 4-H is the only youth development program with direct access to technological advances in agriculture, life sciences, engineering, learning technologies and social sciences from the university system. This brings relevant science content and hands-on learning that helps youth thrive (Arnold, Bourdeau, & Nott, 2013).

In Callaway County, 170 members were engaged in science related projects and experiences



Program Area-Agricultural Business

Presenter Name – Darla Campbell, Karisha Devlin, Joe Koenen Mary Sobba



Agricultural Lenders' Seminar

Number of Callaway County residents served

5 participants from Callaway County

A total of 95 lenders and 45 producers attended from 30 Missouri counties, plus Kansas and Iowa at the Kirksville, Hannibal, and Mexico locations.

Total Hours of Collective Workshop Participation in 2018

22 hours (5.5 hours x number of county participants)

770 hours total for all lenders and producers

What Did They Learn?

Topics for the three seminars varied some by location but included:

Macro Economics, Land Values and Rental Rates, Crop & Livestock Outlook, Update on Taxes, Marketing Strategies, Data for Decision Makers, and Positioning for Success in the Economic Reset.

Lenders received the 2019 Missouri Farm Financial Outlook book, which included budgets for all major crop and livestock enterprises in the state.

What Action Did They Take?

Lenders will help their agricultural customers use the information and tools obtained at the seminars. Specific actions include using: Budgets; Crop & Livestock Outlook; Rental Rates and Land Values; Tax update, Economic Outlook, and Marketing strategies.

How Does This Work Make Callaway County and Missouri Better?

The lenders in attendance manage 4,285 loans totaling \$972,850,000. By attending University of Missouri's Agricultural Lenders' seminars, lenders are able to help their clients make better decisions based on risk management tools, budgets, and other resources provided. This benefits their portfolio of producers and landowners by an increased understanding of enterprise budgets and cash flow affecting families' and businesses' financial health. This is especially important with the downturn in the agricultural economy as both crop and livestock producers expect lower incomes, continued high input costs, challenging marketing decisions, and a new Farm Bill.



Missouri Farm Lease Class

Mary Sobba



Number of Callaway County residents served

Seventy-five Missouri citizens attended a University of Missouri Extension farm lease class in 2018. The classes were offered in multiple locations using distance learning. There was one class in the January and another in September. By using distance learning more people can attend the classes. This year the participants were from twenty-three Missouri counties. Eight persons from Callaway County attended the class.

Total Hours of Collective Workshop Participation in 2018

The hours of class totaled 187. The class reinforced the importance of good, clear communication and how it can enhance a farm lease. The class topics included: current farmland rental rates and future trends, items needed in a lease, legally terminating a farm lease in Missouri, recreational leases and crop and livestock cash and share arrangements.

What Did They Learn?

Participants were given a short evaluation at the conclusion and reported as follows: As a result of taking the class:

- 100% of attendees would recommend this program to others
- 82% of attendees know where to go for more information or assistance with their farm lease
- 93% of those that attended have a better idea of fair rental rates in their area of the state
- 100% know the correct way to terminate a farm lease.

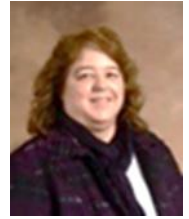
How Does This Work Make Callaway County and Missouri Better

By taking the class, participants gain insight from both the landowner and tenant perspective, culminating in leases that are fair for both parties. This promotes optimal land use leading to more sustainable profitability.

The class encourages better landlord-tenant communication, which lowers conflict and avoids costly litigation

MU Extension Tax Schools

Mary Sobba



University of Missouri Extension ag economics department and regional ag business specialists worked together to coordinate one summer and six fall tax schools. The schools were designed for those who prepare taxes including: enrolled agents, tax preparers, CPA's, individuals and attorneys.

Number of Callaway County residents served

The 2018 school attendance was a total of four hundred fifty-seven people. The schools were held in Cape Girardeau, Columbia, St. Joseph and Springfield. The participants were from all over the state. There were 4 tax preparers from Callaway.

Total Hours of Collective Workshop Participation in 2018

The schools were approved for 8 hours of continuing education credit by the IRS, Missouri Bar and for CFP continuing education. Total continuing education hours reported to IRS for the schools was 3,072 hours

What Did They Learn?

The training included new tax legislation (Tax Cuts and Jobs Act), rulings and cases, individual taxpayer issues, IRS rules and regulations, business issues, retirement issues, cybersecurity, ethics and agricultural and drought topics. Much focus was on the new Tax Cuts and Jobs Act, which is the most tax changes in over thirty years.

How Does This Work Make Callaway County and Missouri Better

The trainings received positive evaluations and planning is underway to offer additional trainings in 2019. Local county residents benefit when local tax preparers have the opportunity to gain knowledge they can use to benefit their clients.

Family Nutrition Program

Teresa DeFord Petefish East Central FNEP Coordinator

Heather Warren NPA



University of Missouri Extension ag economics department and regional ag business specialists worked together to coordinate one summer and six fall tax schools. The schools were designed for those who prepare taxes including: enrolled agents, tax preparers, CPA's, individuals and attorneys.

Number of Callaway County residents served

Locally, in Callaway County, 684 Youth and 6,622 Adult contacts were made for a total of 7,303 contacts. Schools and agencies served included Auxvasse Elementary, New Bloomfield Elementary, Williamsburg Elementary, Fulton Housing Authority, Fulton Soup Kitchen, and Serve Inc.

What Did They Learn?

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. 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. Our Nutrition Program Associates (NPAs) are also continuing to provide information about the SNAP benefits program and offer assistance with SNAP applications

How Does This Work Make Callaway County and Missouri Better

The Family Nutrition Program (FNP) brought \$9,449,699.00 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 735,541 Supplemental Nutrition Assistance Program (SNAP) recipients and eligible citizens of Missouri. There were 2,932,390 educational contacts. This year we had 2,242,249 indirect educational contacts. Indirect contacts are reached through newsletters, health fairs; food pantries and the Show Me Nutrition help line.



Family Nutrition Education Programs

Nutrition and Lifeskills for Missouri Families

MU Extension Continuing Education

Missouri University Conference Office

The MU Conference Office provides 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 campus, in out-state Missouri or anywhere in the world, the office's professional staff provides assistance to create the best learning environment for participants. In FY 2018, more than 20,000 Missourians registered to attend conferences, where university knowledge and research across disciplines was shared. <http://muconf.missouri.edu/>

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 has a direct impact on the well-being and protection of Missouri's 29,000 firefighters and the 6 million citizens they serve. Courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation, as well as fires. In FY 2018, MU FRTI provided more than 11,000 hours of instruction to 13,494 fire and emergency responders. <https://www.mufrti.org>

Law Enforcement Training Institute (LETI)

LETI brings certified, professional training to law enforcement officers and continuing professional education to other criminal justice and public safety professionals. For more than 60 years, the institute has been the state's leader in providing vital training and education services to Missouri's 17,000 in-service personnel and police recruits annually. Working with national, state and local agencies from 31 states, LETI also provides basic and advanced animal cruelty investigations training. LETI presents to civic organizations, churches and businesses throughout the state on a variety of topics, including personal safety and armed intruder response. <http://leti.missouri.edu>

Missouri Training Institute

The Missouri Training Institute provides continuing education, custom-designed training programs and consulting services for business and industry, public and nonprofit organizations and educational institutions. Training programs include subjects such as human resource management, supervision, management, leadership, team building and other business-related topics. The institute's consulting services include curriculum design, human resources, strategic planning, board development and facilitating meetings and retreats. In FY 2018, 3,700 people enrolled in the institute's 180 programs. <http://mti.missouri.edu>

MU Nursing Outreach

Keeping Missouri nurses up to date with the knowledge and skills they need to provide effective care and fully participate in the state's health care efforts is a primary goal for Nursing Outreach. A full 92 percent of Nursing Outreach's Missouri participants reside outside the metropolitan St. Louis and Kansas City areas. Nursing Outreach brings high-quality, affordable continuing education programs to this audience using face-to-face, web-based and online delivery methods. In FY 2018, the program reached more than 4,300 health care professionals. <http://nursingoutreach.missouri.edu/>

Continuing Medical Education and Physician Lifelong Learning (CME/PLL)

CME/PLL serves MU Extension and the MU School of Medicine by educating physicians and other health care professionals and enhancing the standard of health care delivery statewide. Through health education, wellness promotion and health care quality performance initiatives, the program improves the health of Missourians. CME/PLL also facilitates and manages health care quality improvement projects for the University of Missouri Health Care system and the MU School of Medicine Springfield clinical campus. In FY 2018, CME/PLL offered 1,726 noncredit programs, courses and educational activities to more than 25,700 participants. <https://extension2.missouri.edu/programs/continuing-medical-education>

Veterinary Medical Extension and Continuing Education (VMECE)

Veterinary Medical Extension and Continuing Education (VMECE) focuses on issues that impact Missouri veterinarians and livestock owners, such as disease risks, rising input costs and increasing regulations. VMECE provides up-to-date information and consultation to better prepare them to address these challenges. VMECE also provides continuing education for veterinarians renewing their veterinary licenses. Team members also present information about production-related topics and animal disease at meetings across the state. <https://extension2.missouri.edu/programs/continuing-veterinary-education>

Labor Education

The MU Extension Labor Education Program works with members and leaders of workplace-based organizations representing the economic interests of more than 20,000 working people in Missouri and surrounding states. Programs help them develop skills to contribute to their organizations, act effectively in the workplace, and be informed and active participants in their communities. <https://extension2.missouri.edu/programs/labor-education-program>

FY 2018 Summary: Continuing Education Noncredit Activities

Continuing education unit	Number of activities	Attendance total	Individual hours of instruction	Student FTE
Continuing Medical Education	1,726	25,731	2,332	216.0
Fire & Rescue Training Institute	643	13,494	11,500	580.0
Labor Education	1	1	0	0.0
Law Enforcement Training Institute	100	2,145	1,943	130.0
Missouri Training Institute (MTI)	180	3,768	806	63.0
MU Nursing Outreach	68	4,345	281	41.3
Osher Lifelong Learning Institute	124	2,976	878	70.3
Veterinary Med Ext & Continuing Education	1	4	4	0.1
MU Conference Office				
Agriculture, Food and Natural Resources	18	5,820		
Arts and Science	1	43		
Business	2	95		
Engineering	1	424		
Human Environmental Sciences	3	243		
Journalism	3	1,235		
MU Administration	5	2,065		
MU Extension	9	1,880		
Veterinary Medicine	1	84		
Conference Office Hosted	21	8,228		
Conference Office Totals	64	20,117	1,079	1,207.0
TOTALS	2,907	72,581	18,823	2,307.7

This table includes noncredit activities reported through MU continuing education units and does not include contacts by cooperative extension specialists.

Educational Contacts — FY 2018

Impact area	Direct contact total	Indirect contact total	Total contacts
Agriculture and Environment	33,450	102,895	136,345
Youth and Family (HES)	677,464	350,822	1,028,286
Business Development	29,210	206,632	235,842
Community Development	21,486	7,096	28,582
4-H	137,411	178,928	316,339
Conferences & Institutes (MTI)	141	157	298
TOTALS	899,162	846,530	1,745,692

Direct contacts refer to participants who engaged in programs, courses or activities individually or with a group. Indirect contacts include people reached at public events and through printed and online materials or content.

Callaway County Extension Center Local Services

MU Extension in Callaway County is your one-stop source for practical education on almost anything. We exist to provide unbiased information and educational resources to improve the quality of life and economic well-being of people in Callaway County.

During the past year, the Extension Center handled **2,300 telephone calls** and **1,250 walk-in visitors** to connect people with the information and expertise they needed. Some of the services provided included:

- ~ 50 **soil tests** processed from farm fields, gardens and lawns.
- ~ 35 **private pesticide applicator certifications or recertifications** were administered.
- ~ **More than 15,000 newsletters** mailed or emailed to individuals, families and farmers, including: *Ag Connection, Integrated Pest Management, 4-H, Financial Management and Livestock.*

Additionally, the Extension Center provided meeting room facilities for **215 educational events and meetings** held by Extension faculty and staff, 4-H clubs and community organizations throughout the past year.

Financial Report Year ending December 31, 2018	
Income:	
Governmental Appropriations	\$ 61,000
Gift/Grants/Contracts	10,221
Education, Service Fees/Resales	8,668
Total Income	79,889
Expenses:	
Salaries/Benefits	46962
Travel	5530
Supplies/Services	5175
Rent/Lease Equipment	2494
Professional /Contractual Services	4200
Soil Test Expenses	832
Telephone Service	1920
Insurance/Bond	1290
Publications for Resale	4167
Copy Services/Printing	352
Repairs/Maintenance	173
Miscellaneous	3492
Total Expenses	\$76,587

MU Extension leverages funds appropriated from federal, state and local governments for locally delivered programs with contracts, grants, fees, gifts, sales and services. In fact, statewide-generated funds exceed appropriations as a percentage of overall revenue.

The **Callaway County Commission** provides salaries and benefits for one full-time administrative assistant, part-time bookkeeper and 50 percent of one 4-H youth assistant, funding for office operations and mileage for regional faculty who conduct educational programs in the county.

The **University of Missouri** provides in-service education and training, postage for communications, computer equipment, technology support and salaries and benefits for 10 faculty



who serve Callaway County, as well as 50 percent of one 4-H youth assistant in Callaway County.

Callaway County Extension Center

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Like us on Facebook: MU Extension Center of Callaway County

The University of Missouri Extension and the Callaway County Extension websites make hundreds of fact sheets and research-based information available 24/7 on topics of interest to families, businesses and organizations.

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.