



UNIVERSITY OF MISSOURI EXTENSION

# Carroll County

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January 10, 2018

Dear Friends of University of Missouri Extension,

A unique partnership exists between University of Missouri Extension and local government. In Carroll County, we are proud of the many ways our partnerships with local government, organizations and coalitions have worked to improve the lives of residents in our county.

While MU Extension centers draw from the expertise found on the four University of Missouri campuses, our regional extension faculty are ingrained into our local communities. The input we receive from local citizens and the University of Missouri Extension Council provides us with the opportunity to tailor our programs to suit the specific needs and priorities of our residents. In this way, we play a vital role in not only enhancing the economic viability of the community, but in creating and sustaining healthy environments due to stronger individuals and families.

Each year, more than 1 million Missourians rely on University of Missouri Extension for research-based information and education to help them solve problems and make informed decisions. In addition to one-on-one assistance, citizens benefit from seminars, services and research-based publications.

This annual report highlights many of the programs we utilized in an effort to make a difference throughout Carroll County during 2017. It has been a privilege to serve our community and we look forward to the opportunity to continue providing resources to assist in making a positive impact in the lives of the residents of Carroll County.

*Diane Isaacs*

Diane Isaacs

Council Chairperson





**VICE CHANCELLOR'S OFFICE**

108 Whitten Hall

Columbia, MO 65211

PHONE: (573) 882-7477

FAX: (573) 882-1955

December 4, 2017

Dear County Commissioners and Friends of MU Extension:

For much of the past year, MU Extension was focused on a long-overdue assessment of statewide needs and a deep look at how we respond to these needs with programs and resources.

We crisscrossed the state to gather input from 42 community conversations with 1,200 people and reviewed analysis and recommendations from a range of external experts. As a result, MU Extension is working on a variety of changes in the interest of providing better university engagement with your communities.

We are steadfast in our resolve to help local communities and the state meet grand challenges associated with economic opportunity, educational excellence and healthy futures. These challenges reflect what Missourians from every corner of the state told us they were most concerned about.

As you read your county's annual MU Extension report, I believe you will be pleased to see the results that have been accomplished through county-based University of Missouri faculty. These faculty members work in response to input received from local extension councils.

At the state level, local MU Extension efforts really add up. Though we have long known extension funds were leveraged, an independent review revealed that MU Extension created more than \$945 million dollars of public value from the \$80 million it received from federal, state, county, grant and contract partners. A public value ratio exceeding 11:1 even surprised us.

As we go about implementing changes based on the recently completed needs assessment and review of our organization, I am confident that our ability to create value at the local level will be even greater.

I encourage you to read the attached annual report from your MU Extension county center to gain an understanding of how MU Extension has worked this past year to serve your community.

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

Sincerely,

A handwritten signature in black ink that reads 'Marshall Stewart'.

Marshall Stewart, Ed.D.

Vice Chancellor for Extension and Engagement

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# Who are we

## Carroll County Extension Council Officers

Diane Isaacs, Chair  
 Barbara Lyon, Vice Chair  
 Paula Sprouse, Secretary  
 Sue Lightfoot, Treasurer

## Elected Council Members

Robert Bryant- West of Highway 65  
 Heather Burns- East of Highway 65  
 Renee Grant- East of Highway 65  
 Jan Leahey- East of Highway 65  
 Laura Owen- East of Highway 65  
 Seth Swindler- West of Highway 65  
 Tim Reid- Town of Carrollton  
 Thomas White II- West of Highway 65

## Appointed Council Members

Bill Boelsen, County Commissioner  
 Diane Isaacs, Town of Carrollton  
 Barbara Lyon, Farm Bureau,  
 Paula Sprouse, MFA  
 Sue Lightfoot, Town of Carrollton

## Carroll County faculty and staff

Kathi Mecham  
 County Program Director and Commercial Horticulture  
 Carisa O'Dell  
 4-H Youth Program Associate  
 Lori Crawford  
 Office Manager / Bookkeeper



Carroll County Clerk, Peggy McGaugh, administers the oath of office to the newly elected Extension Council Officers.

## Staff serving Carroll County, (based in other counties)

Meghaan Brinkley\_Hopper  
 Business Development  
 James W. Crawford  
 Natural Resource Engineering Specialist  
 Penny L. Crawford  
 Regional Coordinator FNP. NW Region  
 Tracy Delany  
 Nutrition & Health Education Specialist  
 Dhruva Dhakal  
 Agronomy Specialist  
 Connie Griffith  
 FNP Program Manager-NW region  
 Beverly Maltzberger  
 Community Development Specialist  
 Jenna Monnig  
 Livestock Specialist  
 Katie Neuner  
 Agriculture Business Specialist  
 Jessica Trussell  
 Human Development & Family Science Specialist

## Carroll County Commissioners

Nelson Heil  
 Presiding Commissioner  
 Bill Boelson  
 District #1  
 David Martin  
 District #2

## State legislators

Eric Grieten  
 Govenor  
 Mike Parson  
 Lieutenant Govenor  
 Jay Ashcroft  
 Secretary of State  
 Nichole Galloway  
 State Auditor

## About us

Location:  
 (Title)  
 Hours:  
 9:00 am -12 p.m. & 1:00 p.m. - 5:00 p.m.  
 Contact info:  
 660-542-1792 or email  
 Carrollco@missouri.edu

## Vision statement

University of Missouri Extension is a valued and trusted educational solution to improve the quality of life in Missouri, the nation and the world.

## Mission statement

Our distinct land grant mission is to improve lives, communities and economies by producing relevant, reliable and responsive educational strategies that enhance access to the resources and research of the University of Missouri.

## Values

- **Respect**

Respect for one's self and for others is the foundation of honor and the basis for integrity. A hallmark of our community is respect — for the process by which we seek truths and for those who engage in that process. Such respect is essential for nurturing the free and open discourse, exploration and creative expression that characterize a university. Respect results in dedication to individual as well as collective expressions of truth and honesty. Respect is demonstrated by a commitment to act ethically, to welcome difference, and to engage in open exchange about both ideas and decisions.

- **Responsibility**

A sense of responsibility requires careful reflection on one's moral obligations. Being responsible imposes the duty on us and our university to make decisions by acknowledging the context and considering the consequences, both intended and unintended, of any course of action. Being responsible requires us to be thoughtful stewards of resources — accountable to ourselves, each other and the publics we serve.

- **Discovery**

Learning requires trust in the process of discovery. Discovery often fractures existing world views and requires acceptance of uncertainty and ambiguity. Therefore, the university must support all its members in this lifelong process that is both challenging and rewarding. As we seek greater understanding and wisdom, we also recognize that knowledge itself has boundaries — what we know is not all that there is.

- **Excellence**

We aspire to an excellence that is approached through diligent effort, both individual and collective. Pursuing excellence means being satisfied with no less than the highest goals we can envision. Pursuing excellence involves being informed by regional, national and global standards as well as our personal expectations. We recognize and accept the sacrifices, risks and responsibilities involved in pursuing excellence, and so we celebrate each other's successes. We commit ourselves to this process in an ethical and moral manner.

- **Engagement**

We are committed to being an engaged learning organization focused on greater access and inclusivity. This commitment comes with a responsibility to listen to and collaborate with our communities, participants and stakeholders. Engagement is demonstrated by a reciprocity and partnership where knowledge and its application are exchanged in an atmosphere of mutual respect. Engagement enriches scholarship, fosters relevant responses and enhances social and economic outcomes.

As an integral part of the land-grant mission, University of Missouri is a joint venture of :

University of Missouri Campuses

Lincoln University Cooperative Extension

The people of Missouri through County Extension Councils

Cooperative State Research, Education and Extension Service of the U.S. Department of Agriculture

Other Stakeholders and partners



# 2017 in pictures



Joe Don McGaugh, Missouri House of Representative and Carroll County Extension Council member reads a Missouri House Resolution to outgoing council member, Belinda Flick, far right, for her many years of serve to our county as Janet Gieseke, Charlotte Gibson, Stephanie Reid, outgoing council members and Diane Isaacs, Chair look on.



4-H youth, Brody Stanley doing a working Demonstration at our Annual Meeting



4-H youth and Clover kids celebrating National 4-H week



Council members recruiting on Carrollton Band Day for the university.



3<sup>rd</sup> place in the State, Brice Eiseler, 4-H Trapshooting 67/75



Carroll County 4-H girls demonstrating at the Missouri State Fair

Commercial Horticulture Specialist &  
County Program Director, Carroll County



## Agriculture and Natural Resources:

Commercial and Home Horticulture

**Replacing Invasive Species with Missouri Native Plants.** Native species occur naturally with respect to a particular ecosystem. Invasive plants can occur by an accidental or a deliberate introduction by humans. Whether by accident or introduction invasive species can cause economic or environmental harm to human health. The program focuses on how one person or a group of people can make a difference in introducing and preserving native species, identification of invasive species and the damage invasive plants can cause.

**Number of Carroll County residents served** 30 Carrollton Garden Club Members

**What Did They Learn?** Citizens gained knowledge about native plant species that grow well in Carroll County. They learned that native species are adapted to Missouri's climate, need minimal maintenance and provide food and shelter for wildlife. They also learned non-native invasive plant species can choke out native plants, provide little habitat for wildlife and compete with crops. They learned where to find information about identifying invasive species and the best practice for control measures.

**What Action Did They Take?** Participants indicated they would become familiar with non-native invasive species on their property and take measures to remove them. They recognized the beauty and benefit of native species and will begin replacing and planting more native species.

**How Does This Work Make Carroll County and Missouri Better?** Planting native species benefits Carroll County and Missouri by supporting biodiversity. Native plants help citizens use less fertilizers and pesticides. Native species require less water; contribute to soil health and reduce water runoff. Native plants support pollinators needed for many crops.



Golden Currant is a fragrant, native alternative to the yellow-blooming Forsythia. Photo courtesy Grow Native.



Commercial Horticulture Specialist &  
County Program Director, Carroll County



## Agriculture and Natural Resources:

*Home Horticulture and Environment*

**Total Eclipse 2017** Education and discussion of the 2017 Total Eclipse. Carrollton was in the path of totality for the 2017 Total Eclipse.

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**Number of Carroll County residents served** 10 Carroll County residents

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**What Did They Learn?** Participants learned what a total eclipse is and why this eclipse would be widely viewed. They learned about the path of totality and the worldview compared to Missouri, the region and the town. They learned the correct way to view the eclipse and the possible danger of looking at the eclipse with unprotected eyes.

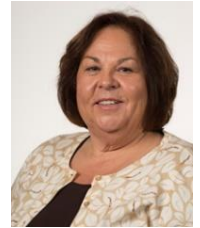
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**What Action Did They Take?** They safely participated in the viewing and shared what they learned with family and friends.

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**How Does This Work Make Carroll County and Missouri Better?** The program makes Carroll County and Missouri better by understanding the importance of science for all citizens.

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Commercial Horticulture Specialist & County Program Director, Carroll County

## Agriculture and Natural Resources:

*Commercial and Home Horticulture*

**Radio and newspaper**

**Home and farm visits**

**Phone, email and office contacts**

**Soil Test**

**Number of Carroll County residents served** Over 200 Carroll County residents reached through media, walk-ins, home visits, calls and email.

**What Did They Learn?** General lawn, garden and plant care. Integrated pest management (insects, weeds, and disease), soil health, fertilizer and pesticide requirements.

**What Action Did They Take?** Learn to identify the problem, and use an effective control measure. Knowledge gained on home vegetable and fruit production leads to increased consumption of healthy food and increased exercise.

**How Does This Work Make Carroll County and Missouri Better?** This makes Carroll County and Missouri better by reducing pesticide application and runoff into local water systems. This will benefit the community by reducing cost to consumers, increasing health and safety, and protecting the environment.

General plant health and selecting the right plant for the right place leads to increased property values, environmental benefits of reduced erosion and improved air quality, and conserving natural resources through reduced heating/cooling costs.



Pumpkin raised in strawbale garden without pesticides



Shaun Murphy, 4-H Youth Development Specialist, Carroll County



Carisa O'Dell, Youth Program Associate, Carroll County, NW Region

## 4-H

**4-H Clubs** – Carroll 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.

**4-H Leadership** – Youth in 4-H engage as leaders from an early age. It is not uncommon for youth to serve as club officers, county wide officers, or even serve as leaders on the Regional and State level.

**4-H in the Classroom** - Through the 4-H Embryology Program youth are learning about science and respect for life through direct experience with living things, their life cycles and their habitats. Pre-incubated eggs are delivered to the school where they hatch about four days later. During this time, students have the opportunity to learn the scientific process of embryology including: incubation, preparing a brooder, hatching, identifying parts of an egg and development of chicks in the egg. While students care for the eggs and chicks, they learn about sharing, decision-making leadership, responsibility, critical thinking and teamwork.

**4-H Shooting Sports** - 4-H youth engage in shooting sports to learn safe handling of firearms/archery equipment, responsibility, and teamwork – plus it is a great way to compete!

**Show Me Quality Assurance**- Programming covers information on daily care and management, reading feed labels, withdrawal times and bio-security for livestock. Also focuses on animal health and carcass quality. Programs leads to PQA certification.



4-H campers and counselors

**Number of Carroll County residents served** 121 youth participate in community 4-H Clubs  
39 screened oriented volunteers  
YCLS Grant Project impacts roughly 200 residents

**Additional 4-H Highlights** 6- Youth Civic Leaders Summit                      3- State Public Speaking Contest  
1- Teen Conference    11- State Shooting Sports  
3- State Congress  
6- State Fair Demonstrations

**What Did They Learn?** 4-H members learn 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. In Carroll County, 121 4-H members were engaged in leadership and/or service.

Missouri 4-H is growing future scientists. Young people in 4-H are engaged in three times more like to be interested and pursue science-based careers their non-4-H peers. Our nation needs young people prepared to live and work in a world that no one can imagine yet. In Carroll County, most 4-H members were engaged in science related projects and experiences.

4-H focuses on learning by doing through experiential learning. This learning better prepares youths for jobs – critical for economic recovery. Youths are given the opportunity to put learning into action through opportunities in leadership, citizenship, teamwork, community service and other life skills.

Life skills are defined in a variety of ways. 4-H, in recent years, has given special attention to youths’ interest, attitudes and engagement in science, engineering and computer technology. 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.

**How Does This Work Make Carroll County and Missouri Better?** 4-H youth are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. 4-H youth are engaged in programs anchored in science (Arnold, Bourdeau, & Nott, 2013).

A study from Tufts University reports that young people in “4-H far outperform their non-4-H peers” in developing the skills, leadership and interest in science and science careers that drive our nation’s future. In fact, 4-H’ers are more likely to pursue careers related to science, engineering and technology because they spend more time engaging in science programs (Lerner & Lerner, 2011). It is not surprising that 4-H youth are three times more likely to go into science related careers than similar peers.

MU Extension 4-H connects 5,176 young people to University of Missouri campuses, including many from Carroll County. Being on campus is a predictor of youth going onto higher education (Dalton & St. John, 2016). 4-H youth are nearly twice as likely to go to college compared to their non 4-H peers (Lerner & Lerner, 2011).

Youth who earn their bachelor’s degree, increase annual earnings by \$2 million over their lifetime (NACUBO, 2012).

Missouri 4-H volunteers donate an average of 6 to 10 hours/week or 72 to 120 hours annually. The Independent Sector values a Missouri volunteer’s time at \$21 per hour. *Accordingly, Missouri 4-H volunteers are providing \$15 to \$25 million in volunteer services annually.*



## 4-H in the Classroom – 4-H Embryology Program

**Number of Carroll County residents served** 86 youth participated in 4-H in the Classroom with Embryology

**What Did They Learn?** Through the 4-H Embryology Program youth are learning about science and respect for life through direct experience with living things, their life cycles and their habitats. While students care for the eggs and chicks, they learn about sharing, decision-making leadership, responsibility, critical thinking and teamwork.

**What Action Did They Take?** Pre-incubated eggs are delivered to the school where they hatch about four days later. During this time, students have the opportunity to learn the scientific process of embryology including: incubation, preparing a brooder, hatching, identifying parts of an egg and development of chicks in the egg.



## Youth Civic Leaders Summit Project

**Project Title and Description** Amphitheater Project: The amphitheater at the fairgrounds needs cleaned up and put mulch down. Steps and ramp need another coat of paint.

Straw bale garden: We want to teach people who live inside the city limits or for elderly people that they can still garden if they do not have a lot of space.

**Number of Carroll County residents served** Plans to impact 200 Carroll County residents

**What Did They Learn?** Youth members learned how teamwork is a key role in everyday life. They developed a watering schedule with the straw bale garden. Members took turns on a daily basis who would water the bales and plants. When the plants had an established growth, watering would take place every other day. They learned that plants do not grow over night and takes lots of patience. Youth involved learned that having Youth/Adult partnerships is a great learning experience. Adults can be very knowledgeable in different every day settings.

**What Action Did They Take?** Amphitheater Project: We have added two coats of paint to the steps and the ramp. We also put mulch down in front of the structure around the shrubs that we had planted.



Straw Bale Garden: We realized that having a straw bale garden takes more work than one would think. Conditioning the bales take the longest. Developing a watering schedule around everyone schedule is a difficult challenge. We had two rounds. We did not succeed with the first round of plants. We planted starter plants and had more success. We donated the tomato and gourd crop to a local food pantry.

## Agronomy

### Programs

MO Crop Management Systems  
 Private Pesticide Applicator Training  
 Forage Production and Management

*Agronomy  
 Specialist*



### **Number of [insert] County residents served**

Over 70 Carroll County adult learners, from listed programs:  
 Private pesticide applicator training (# 56)  
 Soil sample test result interpretation (# 4)  
 On-site farm visits with crop and pasture growers  
 Insect, disease, nutrient deficiency, herbicide injury identification and diagnosis

### **Total Hours of Collective Workshop Participation in 2017**

Over 200 hours of learning by Carroll County people.

### **What Did They Learn?**

Proper use of pesticides  
 Proper soil and nutrient management to increase fertilizer efficiency and protect the environment  
 Introduction to Good Agricultural Practices and food safety  
 Identification and control of plant diseases and insects  
 Benefits of cover crop

### **What Action Did They Take?**

Used research proven crop, soil and nutrient management techniques helped producers to increase net farm economic return  
 Applied nutrient to the crop/soil at proper amount and timely helped to increase crop productivity, minimize environment degradation and maximize farm profit  
 Timely diagnosis of insect, disease and nutrient deficiency helped farmers to save their crops  
 Adopted rotational grazing and legume inter-seeding into grass pastures increased carrying capacity of pastures, improve animal daily gain and net farm profit  
 Increased farmer’s knowledge and awareness to the sustainable crop and soil management practices such as cover crops

### **How Does This Work Make Carroll County and Missouri Better?**

By utilizing research based “Good Agricultural Practices (GAPs)”, crop/pasture producers in Carroll county increase net farm income/local economy by increasing their crop productivity and reducing production cost. The increased local economy in Carroll county contributes to the better Missouri State’s economy.  
 The increased net farm income encourages young farmers to be involved in the farm.  
 Foods produced through GAPs are high-quality, more nutritious and healthier. This ultimately leads to decreased health care cost.  
 Proper amount and timely application of fertilizers and other farm-chemicals helps to minimize its use in the field. This helps to maximize the environmental degradation problems that creates better soil, water, and air quality. Agricultural practices, for example, cover crop and no-till farming reduce soil erosion and improve soil health.

## FAMILY NUTRITION PROGRAM (FNP)

### CARROLL COUNTY

**Kathy Smith**  
Nutrition Program Associate



**Number of Carroll County residents served** 534 Carroll participants directly and 220 indirectly

**Total Hours of Collective Workshop Participation in 2017**

#### What Did They Learn?

Youth from Pre-school to 8th grade learned through kid-friendly, hands-on lessons and activities. Activities include opportunities for taste-testing healthy foods and practicing skills that lead to good health. Education for adults also includes nutrition, food safety, and physical activity, as well as food resource management.

#### What Action Did They Take?

Nutrition Program Associates (NPA's) go into schools and other grant eligible locations and interact with community members to help them make healthier choices and build healthy habits. They see the difference the program makes in people's lives.

#### How Does This Work Make [insert] County and Missouri Better?

The Family Nutrition Program (FNP) brought \$9,681, 129.00 federal funds to the state of Missouri. These funds were used to provide nutrition education to 838,295 Supplemental Nutrition Assistance Program recipients and eligible citizens of Missouri. There were 3,831,270 educational contacts. This year we had 3,064,781 indirect educational contacts. Indirect contacts are reached through newsletters, health fairs, food pantries and the Show Me Nutrition help line. 754 of these participants reside in Carroll County.

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.

Valerie Tate  
Agronomy Specialist



## FORAGE PRODUCTION

### Grazing School

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**Number of [Carroll County residents served]** 2

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**Total Hours of Collective Workshop Participation in 2017** 12 hours per participant

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**What Did They Learn?** This one and a half day program focused on all aspects of management intensive grazing, from how forages grow to how to estimate forage availability to meeting livestock nutritional requirements on pasture.

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**What Action Did They Take?** Participants were encouraged to evaluate their own operation to determine how improving grazing management can improve forage quality, yield and seasonal availability.

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**How Does This Work Make Carroll County and Missouri Better?** Providing higher quality pasture, over more days of the year can significantly improve grazing livestock profitability.



4-H Youth in Action 2017



Youth enjoying the Saint Patrick's Day dance



4-H Youth Council promoting 4-H week by decorating the scarecrow at the office inviting everyone to join 4-H



Archery



4-H youth council shows off their produce from the straw bale garden



Youth target practicing during shooting sports



Having fun at Clover Camp tie dying t-shirts



Kathy Smith, FNP, having fun with the Clover Kids at camp.



Participants of the County Shoot

# MU Extension Continuing Education

## University of Missouri (MU) Conference Office

The MU Conference Office provides full-service meeting management for a variety of noncredit educational programs. In FY 2017, the MU Conference Office organized 72 conferences for more than 20,000 people in teacher education in math, science and writing; crop management and agricultural lending, as well as statewide youth leadership programs, generating \$3.2 million in revenue.

[muconf.missouri.edu](http://muconf.missouri.edu)

## Fire and Rescue Training Institute (MU FRTI)

In FY 2017, MU FRTI celebrated its 85<sup>th</sup> anniversary of providing continuing professional education and training to Missouri's fire service and emergency response personnel. In addition to fire training, courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation. In FY 2017, MU FRTI trained 11,319 firefighters and emergency responders from 932 departments, organizations and agencies throughout all 114 Missouri counties. [mufrti.org](http://mufrti.org)

## Law Enforcement Training Institute (LETI)

LETI provides training and education for Missouri's 17,000 personnel and police recruits and presentations to community and civic groups, as well as collaborative programs with agencies from 31 states. In FY 2017, LETI reached nearly 2,000 police and emergency responders. With MU's Human Environmental Sciences department, LETI piloted Taking Care of You and Mental Health First Aid for Law Enforcement, helping participants better understand mental illness and how it impacts their work. Other programs include advanced animal cruelty investigations training and armed intruder and personal safety response. Students receive over 700 hours of basic training and certification, with other topics and certifications like Crisis Intervention Team Training available.

[leti.missouri.edu](http://leti.missouri.edu)

## Missouri Training Institute

The Missouri Training Institute provides continuing education programs in business, as well as customized training programs and consulting services for business and industry and public, nonprofit and educational organizations and institutions. In FY 2017, 10,630 people enrolled in the institute's 371 programs that cover diverse business practices, such as human resource management, team building, decision-making, strategic planning and leadership. [mti.missouri.edu](http://mti.missouri.edu)

## MU Nursing Outreach

Nursing Outreach serves mainly rural health-care workers with high-quality, affordable continuing education programs using face-to-face and online delivery methods; 92 percent live outside the St. Louis and Kansas City metro areas. In FY 2017, nurses from 77 Missouri counties and the city of St. Louis attended continuing education programs. Another 867 nurses and 1,986 health care professionals — including social workers, nursing home administrators and psychologists — were served through multidisciplinary programs. [nursingoutreach.missouri.edu](http://nursingoutreach.missouri.edu)

## Center for 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 providers to improve the standard of care in Missouri. In FY 2017, CME/PLL offered 1,678 noncredit programs, courses and activities, serving 27,345 people, as well as 14 accredited medical conferences, including the annual Missouri Telehealth Network Summit on trends in this emerging healthcare arena; an Ellis Fischel Cancer Symposium on holistic approaches to cancer care; and one of the world's largest multidisciplinary conferences on dialysis. CME/PLL also provided online training for 6,400 state mandated child protection reporters in 20 occupational fields.

[medicine.missouri.edu/cme](http://medicine.missouri.edu/cme)

## Veterinary Medical Extension and Continuing Education (VMECE)

Veterinary Medical Extension provides information and consultation to veterinarians and livestock owners on issues such as disease risks, rising input costs and regulations that impact farming operations. In FY 2017, VMECE provided 17 continuing education events for veterinarians needing credit to renew their licenses. Twelve events addressed antibiotic label changes that went into effect on January 1, 2017, and how to write a veterinary feed directive. The rest dealt with preventing and responding to disease outbreaks in Missouri livestock operations. The VMECE team also presented at more than 40 meetings across the state, educating animal owners about the antibiotic label changes. VMECE also taught food animal production medicine to MU College of Veterinary Medicine students and collaborated in research that addressed bovine reproduction. [vmth.missouri.edu](http://vmth.missouri.edu)

## Labor Education

The Labor Education Program works with members and leaders of workplace-based organizations across Missouri to help them develop skills, act effectively in the workplace and be informed and active participants in their communities. In FY 2017, the program offered 35 courses and conferences to 952 participants, most of whom are leaders of organizations representing the economic interests of more than 20,000 working people in Missouri and surrounding states.

[labored.missouri.edu](http://labored.missouri.edu)



## ***Tweedie Agri-Business Forum***

Tommy and Garnet Tweedie were avid supporters of University of Missouri Extension in Carroll County and have continued that support by providing, through their estates, annual funding for MU Extension in Carroll County. One of the ways Carroll County Extension Council has elected to use these funds is to provide an agriculture forum each year. This program is offered free of charge to farmers, producers, and all Carroll County residents. On November 19th, 2016 the Carroll County University of Missouri Extension Council held its sixth annual forum at the Rupe Community Center. The speaker was Associate Extension Professor of Climatology Atmospheric Science, MU Extension



Pat attended the University of Illinois in Urbana-Champaign where he received a B.S. in physical geography in 1986 and an M.S. in atmospheric science in 1988. He came to the University of Missouri to continue his education in atmospheric science and serve as a climatologist with the Agricultural Experiment Station. Since 1996, he has been employed by University of Missouri Extension as a climatologist. Pat received his Ph.D. in Soil, Environmental and Atmospheric Sciences in 2004 and, in addition to his Extension and campus activities as an Associate Professor in Climatology, he operates the Missouri Mesonet which is a statewide network of 35 automated weather stations, serves as the State Climatologist for Missouri, Director of the Missouri Climate Center, and co-coordinator of the Community Collaborative Rain, Hail and Snow network in Missouri.

Topic covered climate trends in Missouri over the past 120 years and highlight some of the anomalies we've experienced.



Tweedie's were avid supporters of 4-H. Shown here Highlights of the clubs activities



Kathi Mecham, CPD, speaking to the audience at the Tweedie Agri-Business Forum

# Missouri Century Farm Families

The Missouri Century Farm program's history dates back to 1976. To qualify, farms must meet the following guidelines: The same family must have owned the farm for 100 consecutive years. The line of ownership from the original settler or buyer may be through children, grandchildren, siblings, and nephews or nieces, including through marriage or adoption. Since Missouri began the program in 1976, more than 8,000 century farms have been recognized.

In 2017, four families in Carroll County applied for, and received, the Missouri Century Farm recognition. The family farm owners who were given this distinction were the Boelsen Family Farm (established 1902), Dick-Cox Farm (established 1906), Crose Farm (established 1883) and the Smith Family Farm, (established 1902). The families received their signs and recognition at the 2017 Tweedie Agri-Business Forum on November 16, 2017.



*The Boelsen Family*



*The Dick-Cox Family*



*The Crose Family*



*Not pictured: The Smith Family*



## Missouri State Fair Farm Family



Rob and Gay-Lynn Korff and family of Norborne were among the families honored during the 59<sup>th</sup> annual Missouri State Fair's Farm Family Day on August 14, 2018. The Korff's were selected as the Carroll County, Missouri State Fair's Farm Family by the Carroll County Extension Council and the local Farm Bureau.

Pictured is the Korff family: L to R: Rob Korff, Jenna Korff, Logan Korff and Gay-Lynn Korff

The Korff's are 4<sup>th</sup> generation farmers, and farm multiple acres of corn and soybeans.

## Leaders Honor Roll



The Leaders Honor Roll program is intended to honor outstanding University of Missouri Extension community leaders who have excelled in supporting or co-teaching named programs. Claud Miller and Kathy Miller received the Leaders Honor Roll award at the 2017 annual extension meeting.

# Carroll County



## UM System Footprint in the County in 2017



### Students

**34 County students**

- 28 Undergraduates
- 6 Graduates
- 30 Full-time students
- 4 Part-time students
- 12 Pell grant recipients (aid year '17)



### Employees and retirees

**10 people employed by UM**

- 7 Campus
- 3 UM Health Care

**4 UM retirees and beneficiaries**

UM salary and retirement income: \$191,773

UM state tax revenue: \$4,836

UM federal tax revenue: \$23,990



### Alumni

**Selected school alumni**

- 4 - Medicine
- 12 - Nursing
- 4 - Health Professions
- 5 - Dentistry
- 6 - Pharmacy
- 2 - Optometry
- 4 - Veterinary Medicine
- 91 - Agriculture
- 20 - Engineering
- 9 - Law

**Alumni teaching K-12**

- 18 teachers
- 12% of all county teachers
- 1 principal or administrator
- 9% of all county principals and administrators



### Breakdown by campus

**MU**

- 28 students
- 244 alumni
- 6 employees

**UMKC**

- 5 students
- 44 alumni
- 1 employee

**Missouri S&T**

- 3 students
- 4 alumni
- 0 employees

**UMSL**

- 0 students
- 4 alumni
- 0 employees



County population: 9,096



### Services provided

**Health care**

- 590 patients seen at UM Health Care, with \$180,525 of uncompensated care
- 9 patients seen at the UMKC School of Dentistry with an average of \$54 per patient in uncompensated care
- University of Missouri Health Care's Missouri Telehealth Network provided services to 44 patients at 2 sites

**Extension**

- 2,821 total educational contacts from MU Extension to residents of county, including:
  - 98 contacts related to productive farming, better gardening, and managing natural resources
  - 2,666 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
  - 57 contacts related to starting businesses, developing community leaders, or renewing the local economy



### Properties and offices

MU Extension in: Carroll County





## UM System Statewide Footprint

### Economic and community development highlights

- Business development specialists worked with **small businesses and entrepreneurs** statewide to create **8,149 jobs**.



For every dollar invested in University of Missouri Extension \$11 of public value is returned; generating **\$945 million** in direct and economic benefit to Missouri in 2016.

- Between FY2011 and FY2016, UM System brought Missouri more than **\$1.1 billion** in federal and private research funds, funded primarily from outside the state but spent within the state.



In 2017, the university was issued **49 patents** and filed **74 patent applications**.

- In 2017, the UM System construction projects resulted in a total investment in the state of **\$136.7 million**.



In FY 2017, Missouri Telehealth Network brought the expertise of University of Missouri Health Care physicians to underserved areas — **2,270 patient consults** in **42 counties**.

### Education and training provided



**42,576** police, fire fighters, nurses, and doctors attending continuing education

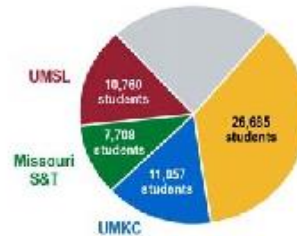


Agriculture and natural resource programs served **94,830** farmers and related businesses



**190,300** youths served in 4-H clubs, schools, camps and other programs

### Education highlights



**77%** of the UM System's 72,877 students receive some financial aid totaling **\$910.6 million**.

- UM System's MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to **59 higher education institutions** (267,000 students), **502 K-12 school districts** (828,900 students) and **116 public libraries** (serving nearly 5 million Missourians) in 2016.
- UM System awarded **54%** of Missouri's 32,575 bachelor's or higher degrees from four-year public institutions in academic year 2015-2016.
- In 2017, UM System's **\$34.5 million** in National Science Foundation (NSF) grants represented **97%** of all NSF grants made to Missouri public universities.



The cost of supporting full-time students in the UM System is **27% less than peer institutions**.

## Supporting the University of Missouri is an investment in the future of Missouri.

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

Prepared in December 2017, based on the best available and most recent data. Data Sources include: Missouri Office of Administration • UM IR • Office of Social and Economic Data Analysis (OSED) Center for Applied Research and Engagement Systems (CARES) • MU • UMKC • Missouri S&T • UMSL • UM System • UM Health Care • MU Extension • US Census Bureau • US Dept. of Health and Human Services • National Science Foundation



# Carroll County Extension Center

## 2018 Budget

January through December 2018

<b>Income</b>		
0150 · Program Fees	500.00	
<b>0200 · Governmental Appropriations</b>		
0210 · County Appropriations	21,000.00	
0220 · City Appropriations	5,000.00	
	<u>26,00</u>	
<b>Total 0200 · Governmental Appropriations</b>		
	26,00	
0.00 <b>0300 · Investment Income</b>		
0310 · Endowment Income	37,000.00	
	<u>37,000.00</u>	
<b>Total 0300 · Investment Income</b>		
	37,000.00	
<b>0900 · Resales/Educ Services Fees</b>		
	1,000.00	
<b>1500 · University Program Funds</b>		
1600 · Funds Reallocation	1,572.00	
	7,460.60	
<b>Total Income</b>		<u><u>73,532.60</u></u>
<b>Gross Profit</b>		73,532.00
<b>Expense</b>		
<b>2700 · Personnel Salary - Salaries &amp; Wages</b>		37,377.60
<b>2900 · Non Payroll Salaries</b>		18,500.00
<b>3100 · Travel</b>		
3110 · Mileage	2,300.00	
	<u>2,300.00</u>	
<b>Total 3100 · Travel</b>		2,300.00
<b>3600 · Postage and Shipping</b>		500.00
<b>3700 · Telephone Services</b>		2,000.00
<b>3900 · Advertising &amp; Marketing</b>		250.00
<b>3910 · Extension Promotion Activities</b>		200.00
<b>4300 · Rent/Lease Space</b>		7,200.00
<b>4400 · Rent/Lease Equipment</b>		2,200.00
<b>5100 · Supplies/Services</b>		2,200.00
<b>6800 · Insurance</b>		480.00
<b>7010 · Extension Council Election Exp.</b>		150.00
<b>7100 · Soil Test Expenses</b>		150.00
<b>7200 · Publications for Resale</b>		25.00
		<u>73,532.60</u>
<b>Total Expense</b>		<u><u>73,532.60</u></u>
<b>Net Income</b>		<u><u>0.00</u></u>