

 **Extension**
University of Missouri

Shannon County

2018 Annual Report



2018 Programs of Distinction

Letter from Vice Provost and Director of Extension

Introducing new Support Staff

2018 General County Budget

Shannon County Extension Staff

Other Staff Serving Shannon County

Agriculture

Human Environmental Science

4-H Youth Development

Engagement and Stakeholder Relations

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

Introducing Shannon County Extension's new Support Staff

We would like to welcome our new addition to Shannon County Staff, Heather Pitts was hired for our Support Staff position in September!



2018 Shannon County University of Missouri Extension Council Financial Report of County Allocations

Income from County Appropriations:

\$10,000.00

Expenses:

Travel- \$1160.71

Postage/ Advertising- \$196.00

Rent/ Lease Equipment- \$1058.20

Supplies/ Council Expense- \$627.15

Professional Services- \$1800.00

Telephone/ Publications- \$413.61

Program Expenses- \$5167.67

Misc.- \$105.00

Secretary Salary and Benefits- \$2605.25

Total Expenses: \$ 13,133.59

< \$ 3,133.59 >



Council Members

-Alan Stringer

-Stepfano Giafrancesco

-Kim Medlock

-Sarah Stringer

-Vinita Chilton

-Bonnie Keaton

-Cody Roberts

-Connie Weber

-Ronnie Beller

-Dean Pearson

-Cindy Pearson

County Commissioners

Jeff Cowen – Presiding commissioner

Dale Counts – Northern Commissioner

Herman Kelly – Southern Commissioner

Shannon County Extension Staff

Cammie Younger – County Engagement Specialist



Kelly Younger – Nutrition Program Associate



Heather Pitts – Office Support Staff



Other Staff Serving Shannon County

-Steve Ivy- 4-H Youth Development

-Sarah Hultine Massengale- Community Development

-Willis Mushrush- Business and Industry

-Ted Cunningham- Livestock

-Ashley Bales- Family Finance

-Frank Wideman- Natural Resources

-John Fuller- Human Development

-John Gundel- Agronomy



Agriculture

Soil Testing

Soil testing is a great way for farmers and gardeners to determine the nutrient status of their soil, and what soil amendments need to be made in order to increase crop production. The information provided from soil tests enables producers to make better management decisions and make their operations more profitable. Interpretations and recommendations were made for 535 soil tests in 2018.

Carter County – 79

Oregon County – 292

Reynolds County – 57

Ripley County – 102

Shannon County – 5

Grazing School

Missouri Grazing Schools have been conducted throughout the state since 1991 in an effort to teach farmers the art and science of grazing livestock. Grazing Schools are taught in cooperation between MU Extension, USDA – Natural Resource Conservation Service, and local Soil and Water Conservation Districts. The intent of the schools is to teach Missouri livestock producers management practices that will increase the profitability of their farms while improving the environmental quality of the land they manage. Topics covered in the schools include soil fertility, animal nutrition, grazing and watering system design, and various other concepts that focus on grazing management. Local Grazing Schools educated 49 students in 2018 with 32 attending the Doniphan Grazing School and 17 attending Ellington.

PPAT

Private Pesticide Applicator Trainings educate farmers on the safe and proper handling and application of agricultural pesticides. Missouri law requires anyone who purchases and applies restricted use pesticides to attend a training session or view a training video. 68 local residents received initial training or recertified their Private Pesticide Applicator license in 2018.

Carter County – 3

Oregon County – 34

Reynolds County – 5

Ripley County – 19

Shannon County – 7

Student Workshops

These workshops are designed to educate our youth on many different aspects of agriculture and how important it is to their daily lives. These interactive sessions are a fun way for kids to learn about topics such as career choices in agriculture, soil ecology, plant growth and importance, and animal nutrition. During 2018 workshops were held in Mountain Grove, Eminence, Winona, Summersville, Mountain View/Birch Tree, and Ellsinore; reaching nearly 500 students ranging from 2nd to 7th grade.

Drought Forums

During 2018, drought conditions caused a wide range of problems for producers. With dry conditions persisting for several months and cold temperatures during the spring, many pastures and hayfields across the region produced less than half their normal tonnage. Limited feed across such a widespread area caused many producers to have to make a choice between purchasing expensive feed and selling more animals. These drought forums were designed to help producers weigh the options between feeding or culling their herds and find ways to mitigate the drought conditions. Discussions were held on assessing and improving pastures, seeding fall forages, meeting the nutritional needs of livestock, feed rations on a budget, and making smart economic decisions in a drought. These meetings reached 48 producers with 11 attending in Doniphan, 6 in Ellington, 6 in Winona, and 25 attending in Alton.



Farm Visits/Consultations

One on one consultations with agricultural producers are a great way to create a lasting impact while adding a personal touch to MU Extension programming. It allows farmers to discuss their specific situation and receive recommendations based on their individual needs. These educational sessions may be conducted by phone, walk-ins, or on site farm visits. During 2018, 48 farmers requested farm visits along with numerous walk-ins and phone call consultations.

Keep the Farm in the Family

The University of Missouri Extension partnered The Nature Conservancy and the U.S. Forest Service to offer this program to 29 participants from the Southeast region. Topics covered in this program included the importance of a farm succession plan, communication among family members, and tools to develop a succession plan.

Ozark Timber Industry Participants Celebration

A partnership with Missouri Department of Conservation, Natural Resources Conservation Services, Soil and Water Conservation District, Missouri State Highway Patrol, and the City of Eminence, to celebrate and recognize healthy timber practices. Participants learned safety with utility wiring, effective timber management strategies, and the importance of healthy eating habits to ensure high level of productivity. There were 62 participants.



AG Day

Extension partnered with Soil and Water Conservation District to conduct an Agriculture Day for 8th graders at a local farm. The purpose of Ag Day is to reconnect children with the farm and show them where and how the food they consume is produced. Subjects included farm machinery, cattle, horses, pigs, goats, chickens, vegetables, nutrition, and wildlife conservation.



Human Environmental Sciences

Eating From the Garden

The University of Missouri Extension partnered with the Winona and Eminence School District to offer this program to 150 students. The students learned the importance of nutrient rich soil, the nutritional value of fresh fruits and vegetables, proper methods of planting seeds, maintaining the garden, proper harvesting skills and safely preparing the fresh food. Research indicates a sizeable savings in health care costs when an investment is made in education of cooking and nutrition. Included in this is the aspect of growing nutritious fruits and vegetables. The students attending this program will be more aware of how our society produces the food needed for a healthy population and on an individual scale as well. The nutritional value and physical activity value of gardening is piece of overall health and well-being.

Food Safety

In partnership with National Park Service, Extension staff provided safe food handling practices in the vendor environment to 3 county learners. Participants learned how to oversee and manage the safe preparation and serving of food to ensure the health and welfare of visitors to our area.

Family Nutrition Program

The Family Nutrition Program (FNP) brought \$9,449,699.00 federal funds to the state of Missouri. These funds were used to provide nutrition education to 735,541 Supplemental Nutrition Assistance Program 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. 353 of these participants reside in Carter 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.

University of Missouri Extension's Family Nutrition Program (FNP) reached 353 participants. Of that number, 328 were direct and 25 indirect nutrition education in Carter County during 2018. A significant percentage of these participants were low income. FNP provides information on nutrition, food safety, gardening, and physical activity for lifelong health and fitness by working with qualifying schools, community groups and agencies.

Long Term Recovery

Over 300 homes, businesses, and churches were affected by the historical flood of 2017. Long term recovery continued throughout 2018 and will continue for the foreseeable future. Through long term recovery work participants became aware of the resources available to flood victims. Participants followed up by applying for assistance from different organization such as Small Business Administration (SBA) and Federal Emergency Management Administration (FEMA) to gain financial means of recovery. Clients received free labor, food, water, cleaning supplies, building materials, furniture and appliances, hygiene products and diapers. Many received assistance with temporary housing and medical needs, as well.

Opioid Intervention Initiative

Opioid addiction is a complex issue which many communities across the country are facing. There is not a one-size-fits-all answer to this epidemic. It is our hope that through community engagement, collaborative efforts and innovative practices we can work together to positively impact the health of Missourians. This is a collaborative effort in Ripley, Shannon, Oregon, and Carter Counties.

This broad range of collaborative efforts includes: community engagement, local resources and partners, University of Missouri School of Medicine, Sinclair School of Nursing, Rural Health Providers, Extension Youth and Family, Health and Safety, as well as other partners and resources.

The objectives of the program include: establishing stakeholder networks/coalitions for effective community engagement, reduce the prevalence of Opioid Use Disorder (OUD) amount youth and adults, increase community engagement, awareness, knowledge and skills related to OUD, reduce the incidence of opioid use and overdose in the community and improve the capacity of health organizations to deliver quality opioid-related care in the four-county area.



 **4-H Youth Development**

4-H in Shannon County
2018

A community of 33 youth building life skills, contributing to their community and becoming college and career ready.

Findings from a 2018 evaluation study reveals that Missouri 4-H:

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.

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 Carter youth participating in 4-H events on a college campus receive a Bachelor's degree, 4-H would help young people acquire \$33,000,000 more in lifetime earnings. *An example - 25 youth X 0.50 X @\$2,000,000 = \$25 million) more of 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).

4-H Horse Camp

We held our first annual Horse Camp in Eminence at the Crazy H arena! We had 20 enrolled for the activity and many volunteers. It taught the kids safety and how to care for the horses, including, brushing, how to saddle a horse, and a roping lesson!



Engagement and Stakeholder Relations

Use of Social Media

Facebook posts have made constituents of the county aware of the opportunities Extension has to offer. Increased 4-H membership helps young people develop life skills that will enable them to remain living and working in Shannon County. We have done 29 posts since January 1, 2018. Posts included 4-H information, food and nutrition updates, extension job postings, workshop announcements and received 3568 views.

Shannon County



UM System Footprint in the county in 2018



Fall county students

42 students

- 35 Undergraduates
- 7 Graduate and professional students
- 35 Full-time students
- 7 Part-time students
- 15 Pell grant recipients (aid year 2018)



County employees and retirees

42 people employed by UM

- 40 Campuses
- 1 UM Health Care
- 1 UM System

18 UM retirees and beneficiaries

UM salary and retirement income: \$1.6 million

UM state tax revenue: \$51,719

UM federal tax revenue: \$223,132



County alumni

Selected school alumni

- 10 Nursing
- 10 Health Professions
- 2 Dentistry
- 3 Pharmacy
- 5 Veterinary Medicine
- 26 Agriculture
- 50 Engineering
- 13 Law

Alumni teaching K-12

- 5 teachers
- 4% of all district teachers
- 1 principal or administrator
- 9% of all district principals and administrators



County breakdown

MU

- 19 students
- 146 alumni
- 10 employees

UMKC

- 3 students
- 14 alumni
- 0 employees

Missouri S&T

- 20 students
- 72 alumni
- 30 employees

UMSL

- 0 students
- 29 alumni
- 0 employees



County properties and offices

UM Extension in: Shannon County



County population: 8,256



County services provided

Health care

- 385 patients seen at UM Health Care, with \$178,390 of uncompensated care

Extension

- 3,815 Total educational contacts from MU Extension to residents of district counties, including:
- 182 contacts related to productive farming, better gardening, and managing natural resources
- 3,626 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
- 7 contacts related to starting businesses, developing community leaders, or renewing the local economy



UM System Statewide Footprint

Economic and Community Development Highlights

- Business development specialists worked with small businesses and entrepreneurs statewide to create 11,559 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 FY2012 and FY2017, 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 2018, the university was issued 39 patents and filed 78 patent applications.

- In 2018, the UM System construction projects resulted in a total investment in the state of \$122.7 million.



In FY 2018, Missouri Telehealth Network brought the expertise of University of Missouri Health Care physicians to underserved areas—2,164 patient consults in 43 counties.

Education and Training Provided



72,581 police, fire fighters, and medical professionals attending continuing education



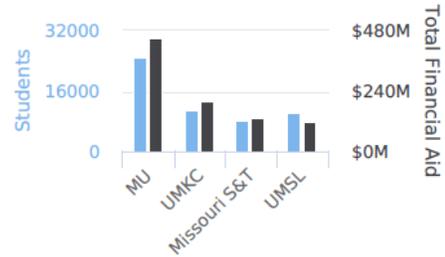
Agriculture and natural resource programs served 136,345 farmers and related businesses



316,339 youth and stakeholder educational contacts in 4-H clubs, schools, camps and other programs

Education Highlights

Financial Aid Awards



- Students receiving financial aid
- Amount of financial aid awarded

65% of the UM System's 84,168 Fiscal Year 2018 students received financial aid totaling \$898 million in Fiscal Year 2018



UM System's MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to 58 higher education institutions (275,000 students), 493 K-12 school districts (831,000 students) and 121 public libraries (serving nearly 3 million Missourians) in 2017

- UM System awarded 52.2% of Missouri's 33,373 bachelor's or higher degrees from four-year public institutions in 2017.
- In 2018, UM System's \$30.3 million in National Science Foundation (NSF) grants represented 92.5% of all NSF grants made to Missouri public universities.

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 2018, 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 (OSEDA) · 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

