

UNIVERSITY OF MISSOURI EXTENSION

Bates County

2018 ANNUAL REPORT



**OFFICE OF THE VICE CHANCELLOR
FOR EXTENSION AND ENGAGEMENT**

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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,

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

Marshall Stewart

Table of contents

Who we are4

Program overviews

- 4-H Youth Development5
- Agriculture—Agronomy13
- Agriculture—Livestock17
- Family Nutrition Education Program18
- Nutrition and Health Education19
- Business Development22
- Human Development23

Continuing Education24

Impact Data26

Who we are

Bates County Extension Council

Jerry Ferguson, Chair
 Mary Fischer, Vice Chair
 Kay Wetter, Secretary
 Shannon Crawford, Treasurer
 Myra Colin
 Paul Cumpton
 Marilyn Duckworth
 Libby Foster
 Larry Hacker

2018 Bates County University of Missouri Extension Council operating budget

2018 Budget:	\$61, 075
Salary and Wages, Office Mgr.	31, 380
FICA and Insurance	16, 275
Salary and Wages 4H	1,800
Travel	3,500
Postage	1,300
Telephone	2, 200
Publishing, printing	1,700
Supplies/services	2,100
Insurance (office)	520
Misc.	150
Furniture/equipment	150
Total Expenses	\$61, 075

Bates County faculty and staff

Sara Bridgewater
 County Engagement Specialist; Nutrition and Health Education Specialist

Robyn Eckhoff
 4-H Youth Program Associate

Amanda Ast
 Food and Nutrition Program Associate

Brenda Doody
 County Office Support Staff

Staff serving Bates County, (based in other counties)

David Hoffman
 Livestock Specialist

Pat Miller
 Agronomy Specialist

Kyleigh Sullivan
 Human Development Specialist

Kelly Asbury
 Business Development

Tammy Ikerd
 County Engagement Specialist in 4-H Youth Development

Emily Westermier
 Business Development

Dedra Thomas
 Field Specialist in Family Finance

Mariya Slipych
 Business Development

Korie Faulconer
 Business Development

James J.W. Crawford
 Field Specialist in Agriculture Engineering

Bates County Commissioners

Jim Wheatley
 Presiding Commissioner

Alvin Griffin
 Northern Commissioner

Larry Hacker
 Southern Commissioner

State legislators

Patricia Pike
 Missouri Representative – District 126

Rodger Reedy
 Missouri Representative—District 57

Jack Bondon
 Missouri Representative—District 56

Ed Emery
 Missouri Senator—Missouri 31st Senatorial District

About us

Location:
Bates County Courthouse
1 N. Delaware
Butler, MO 64730

Hours:
 8:30 am – 4:30 pm

Contact info:
 660.679.4167

4-H Youth Development

Robyn Eckhoff, 4-H Youth Program Associate

Statewide Data Project

Missouri 4-H Youth Specialists joined together to survey 4-Hers from across the state. Here is what they found:

Missouri 4-H Develops Leadership

95%

of youth think 4-H is a place they get the opportunity to be a leader and make group decisions

8 in 10

find it easy to speak up in a group



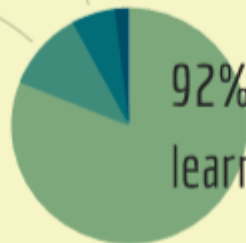
No
2%

Not Really
6%

Usually
11%

89%

reported feeling comfortable being a leader



92% of 4-Hers said 4-H is a place where you learn about ways to help your community

Yes
81%



Statewide Data Project

Missouri 4-H Youth Specialists joined together to survey 4-Hers from across the state. Here is what they found:

Missouri 4-H Offers Choices



94%

said 4-H is a place where you get to do things that you like.

9 in 10

said 4-H is a place where you get to choose what you want to do

Missouri 4-H is Where Youth Know They Belong



For those who have completed 1-2 years of 4-H, feeling liked was positively associated ($p=0.07$) with 4-H participation



Those who have been in 4-H for 4 years or longer reported the strongest feelings of being safe ($p=0.02$) and not left out. ($p<0.01$)

Statewide Data Project

Missouri 4-H Youth Specialists joined together to survey 4-Hers from across the state. Here is what they found:

Missouri 4-H Builds Initiative

92%

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.

Nearly all of the youth surveyed reported they like to learn new things.

They also reported they are willing to work hard on something difficult.



Statewide Data Project

Missouri 4-H Youth Specialists joined together to survey 4-Hers from across the state. Here is what they found:

Missouri 4-H Builds Connections for a Bright Future

92%

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

said they think about others feelings before they say something and how their choices affect others.

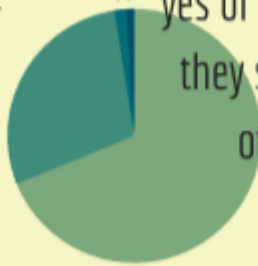
93%

said they treat others the way they want to be treated.

97%

98% of youth responded yes or usually indicating they show respect for others ideas.

No
1%
Not Really
2%
Usually
29%



Yes
69%

Over half of the youth surveyed said they can usually still work with someone who makes them upset.

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 Bates County youth participating in 4-H events on a college campus receive a Bachelor's degree, 4-H would help young people acquire \$21,000,000 more in lifetime earnings. $(21 \text{ youth} \times 0.50 \times \$2,000,000 = \$21,000,000)$

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 in Bates County 2018

A community of 329 youth building life skills, contributing to their community and becoming college and career ready.

County	Youth in Organized Clubs/Units	4-H School Enrichment Programs	Special Interest	Overnight & Day Camps	All Other Programs	Total Members	Adult Volunteers	Youth Volunteers	Total Volunteers
Bates	264	25	15	4	21	329	136	32	168

In Bates County, 374 4-H Members were engaged in science-related projects and experiences. *(Duplicate members in more than one science-related project.)*

4-H clubs
4-H participants = 264

Bates 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 computers science and arts to animal science and healthy living. Clubs also involve youth in community service, camping and educational trips.

4-H SPIN and special-interest programs
4-H participants = 15

Bates County 4-H SPIN and special-interest clubs and programs include community partnerships and events, day camps and other educational activities.

4-H school programs
4-H participants = 50

Bates County 4-H school programs are educational experiences that supplement learning in the classroom. Teachers, 4-H volunteers or 4-H staff lead these activities. The most popular 4-H school program in Bates County is Robotics.

* Duplicates not removed.

4-H members are supported by 168 youth and adult volunteers
Time valued at \$405,552

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 Bates County 4-H volunteers was worth more than \$405,552 in 2018. More importantly, these individuals serve as role models and mentors for youth.



BATES COUNTY 4-H PROGRAM SUCCESS STORIES:

Mizzou Alternative Breaks (MAB) provides students the unique opportunity to gain a wider perspective of the world while immersed in a weekend of service to people and communities. Through service, leadership, and the development of lasting relationships, MAB aims to provide students with an experience that offers them the seeds to grow into active and united citizens. March 10-11, 2018, ten Mizzou students traveled to Bates County for a weekend of service. More than 115 4-H members, volunteers, and area school groups were encouraged to take part in this impactful weekend of service. This service learning experience was a great one. 4-H members, volunteers, area high school students, sponsors, and community members had the opportunity to impact our entire county with the work that was done. The Bates County 4-H 48 Hour Initiative . . . A weekend of service. A lifetime of impact.



References:

Arnold, M., Bourdeau, V., & Nott, B. (2013). Measuring science inquiry skills in youth development programs: The Science Process Skills Inventory, *Journal of Youth Development*, 8(1).

Dalton, R., & St. John, E. (2016). *College for every student: A practitioner's guide to building college and career readiness*. New York, NY: Routledge.

Independent Sector (2017). Independent sector releases new value of volunteer time of \$24.14 per hour. Retrieved from <http://independentsector.org/news-post/value-volunteer-time/>

Lerner, R.M., Lerner, J.V. (2011). The positive development of youth: Report of the findings from the first seven years of the *4-H Study of Positive Youth Development*. Retrieved from <http://www.4-h.org/about/youth-development-research/>

U.S. News and World Report (2011). How Higher Education Affects Lifetime Salary. Retrieved from <https://www.usnews.com/education/best-colleges/articles/2011/08/05/how-higher-education-affects-lifetime-salary>

Agriculture – Partners in Pasture

Pat Miller, Agronomy Specialist (Vernon County)

Partners in Pasture group meets every other month in the west central Missouri area during the growing season, with the potluck meetings being hosted by various members. Plant production is economically important to the Bates County area, whether it is crop, forage or commercial horticulture production. As agronomy specialist, Pat Miller educates plant producers through workshops, one-on-one consultations, newsletters, traditional media and social media.

Number of Bates County residents served	There are usually twenty participants in the Partners in Pastures group. Eleven producers from Bates County attended a Partners in Pasture tour near Urich, Missouri.
What Did They Learn?	Discuss soil and crop/forage management; identify components of pasture production; and generate methods and procedures to improve pastures in our county. Producers learn new methods of grazing in order to increase their profit.
How Does This Work Make Bates County and Missouri Better?	Provides social and educational opportunities to improve pasture quality.

Agriculture—Pesticide Applicators

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served	Ninety-four producers attended one of the two private pesticide applicator trainings held in Bates County.
What Did They Learn?	Participants learned safe methods of pesticide application from Pat Miller, resulting in reduced environmental and personal hazards.
What Action Did They Take?	This training provides participants a private applicator license to purchase restricted-use pesticides.
How Does This Work Make Bates County and Missouri Better?	Provides growers with the required knowledge, skill and ability to properly apply pesticides, including but not limited to: herbicides, fungicides and insecticides. A survey of producers who attended the class a stated that they increased their knowledge an average of 39%.

Agriculture—Horticulture

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served

Twenty contacts in Bates County were made concerning commercial horticulture production.

In the area of home horticulture, eight attended a fruit pruning workshop and seven attended a master gardener-taught Composting 101 class. There were twenty-three home horticulture consultations and 85 follow the University of Missouri Gardening Tips for West Central Missouri Facebook page. Mailings also go to fifteen commercial Nursery, Greenhouse and Landscaping individuals in the area.

Commercial Fruit and Vegetable Growers continue to increase production with over 700 acres in the area. Crops grown include tomatoes, peppers, melons, squash and apples. Many vegetables are grown in hoop houses to take advantage of the early market. Produce is wholesaled as well as sold at farmers markets, roadside stands and on-farm stands. Some is also sold directly to restaurants. Forty-nine commercial produce growers attended a Food Safety and Modernization Act training at Rich Hill. Federal regulations will eventually be required to have this training is they sell over a certain amount of produce.

What Did They Learn?

Informed home gardeners and professionals save money, reduce environmental impact, enjoy a healthy hobby and beautify their surroundings. Commercial growers learned about the ways that produce can become contaminated and how to prevent it.

Ag in Focus Newsletter Mailing, E-mails, Facebook posts

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served

E-mails, mailings and newsletters were sent to ag producers, commercial horticulture producers, and nursery/landscaping professionals. A multi county e-mail list for ag producers now goes out to about 260 producers with crop and pest updates and meeting announcements. A Facebook page, University of Missouri Extension Ag on the Western Edge, reaches 70 area ag producers. Sixteen Bates county crop producers and 26 forage producers were advised on problems and management strategies.

What Did They Learn?

Improved crop, forage and farm management practices.

What Action Did They Take?

Applied those practices to their operations.

Agriculture—Individual Consultations for Crop and Forage Producers

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served	There were twenty-six individual consultations and farm visits about forage production and sixteen individual consultations on crop production in Bates County.
What Did They Learn?	Ag pest and management updates and upcoming meeting announcements.
What Action Did They Take?	Attended educational meetings, scouting fields and made informed decisions.
How Does This Work Make Bates County and Missouri Better?	Increases ag income and reduces unnecessary pesticides treatment.

Agriculture—Concepts of Soil Fertility

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served	Twelve attended the Concepts of Soil Fertility four-night short course in Butler
What Did They Learn?	Producers that attended the Concepts of Soil Fertility learned about major, secondary and minor nutrients, deficiency symptoms and application methods.
How Does This Work Make Bates County and Missouri Better?	Producers that attended the Concepts of Soil Fertility can save money and reduce environmental damage by reducing unneeded applications. They can also increase yields by making sure nutrient levels are optimum.

Agriculture—Missouri Complex Fence Laws ITV

Pat Miller, Agronomy Specialist (Vernon County)

Number of Bates County residents served

Sixteen attended a workshop Missouri's Complex Fence Laws ITV.

What Did They Learn?

Producers that the Missouri's Complex Fence Laws ITV learned about the state fence law and the two types of fence laws in Missouri. Informed landowners can be better neighbors and know their rights.

How Does This Work Make Bates County and Missouri Better?

Producers that the Missouri's Complex Fence Laws are informed landowners can be better neighbors and know their rights.

Agriculture—Livestock Production Program

David Hoffman (Cass County)

An all-inclusive program focused on improving livestock production and profitability for producers of beef cattle, swine, small ruminants and equine. Producer contact was via producer meeting, workshop attendance, farm visits, phone conversation and/or email. Adults and youth participation in a wide variety of program efforts including Missouri Show-Me-Select Replacement Program, Beef Cattle Genetic Evaluation, Livestock Production Systems, 4-H and FFA Youth Livestock Projects, and other meeting and workshops and individual consultation. Topics ranged from answering a single question to more in-depth involvement in solving production concerns or management practices. Topics include reproduction management, nutrition, genetic improvement and technology, herd health, carcass quality, animal handling and facilities, show animal management, etc.

Number of Bates County residents served

195 livestock producers (adult and youth) were in contact with the MU Extension Regional Livestock Specialist regarding their livestock operation in 2018.

What Did They Learn?

Livestock producers increased their knowledge regarding reproductive management of their cows and heifers; the growth and carcass performance of their seedstock; and management information to assist decision-making in their livestock operations.

What Action Did They Take?

Producers developed and managed beef replacement heifers to retain in their herd or market according to a set protocol. Six hundred head of cows and heifers were synchronized and artificially inseminated. Informed breeding decisions to improve the next calf crop were given. Producers adapted information to improve their nutrition, forages, health programs, etc. for different livestock situations.

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

- Improved quality and performance of replacement heifers (sixty-eight head). Additional marketing opportunities for producers to increase their farm income and profitability.
 - Marketed thirty-four head for \$62,875 through Show-Me-Select Bred Heifer Sales.
- Improved performance (weight gain, maternal, longevity) through selection of genetically superior bulls.
- Added value of the calves for their genetic merit and performance and longevity on the herd for replacements.
- Two producers learned the proper technique to artificially inseminate their cattle.
- Improved performance (weight gain, carcass) through selection of genetically superior bulls.
- Added value of the calves of producers purchasing herd bulls and replacement females.
- One hundred and eighty-six producers were able to make decisions based on unbiased research information to improve their productivity, profitability and/or sustainability.

Family Nutrition Education Program

Amanda Ast, Nutrition Program Associate

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.

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.

In Bates County, 592 Youth and 2,330 Adults contacts were made for a total of 2,922 contacts.

The following is a list of the locations where participants were served in Bates County:

<u>Schools</u>	<u>Agencies</u>
Ballard Elementary	Adrian Head Start (WCMCAA)
Butler Elementary	Butler Head Start (WCMCAA)
Hudson Elementary	Rich Hill Head Start (WCMCAA)
Hume Elementary	Butler Senior Center
Miami Elementary	Community Food Pantry of Butler
Rich Hill Elementary	Butler City Library
	Bates County Health Center

In addition to the numbers, Amanda Ast shared this success story demonstrating local impact:

At Hume Elementary School this year, the second graders, were very excited to start. With the first lesson, we talked about the five food groups, why we need to eat food from all of the five food groups, and trying new foods. At the end of each lesson, I always tell the kids they get newsletters to take home and to look at them with their families because there are fun recipes on them as well. One of the boys said, "me and my family tried the five food group sandwich recipe on the back of the newsletter and I thought I wasn't going to like it but I loved it and so did my family." I was so glad to hear that he started trying new things and that the newsletters do make a big impact on the families.

In summary, it has been a successful year in Bates County for FNP. We look forward in 2019 to more programming opportunities and continued progress in helping to improve the lives of Missouri families.

Thank you,

Michelle Chapman

Michelle Chapman
West Central FNEP Coordinator

Nutrition and Health Education—Stay Strong Stay Healthy, Level 1

Sara Bridgewater, Nutrition and Health Specialist & County Engagement Specialist

Stay Strong, Stay Healthy – Level 1 is an 8 week strength training program for middle-aged and older adults. The program is designed to increase aging adults access to a safe, structured, and effective strength training program. At each class a prescribed set of 8 upper and lower-body strengthening exercises are done along with a warm-up and cool down. Participants are made to feel comfortable regardless of their current fitness level so they can safely participate and gradually build the strength beneficial to health.

Number of Bates County residents served

One session was held in 2018 with 16 classes in the session. The classes were held in partnership with Bates County Memorial Hospital. Seventeen Bates County Residents participated.

Total Hours of Collective Workshop Participation in 2018

Bates County residents benefitted from 16 hours of Stay Strong Stay Healthy Level 1 participation for a total of 272 educational contacts.

What Did They Learn?

The program features exercises using resistance from body weight, hand weights, and ankle weights. Participants learn how to correctly perform exercises to improve balance, strength, and flexibility.

What Action Did They Take?

In post evaluation SSSH Fitness Assessments

50% improved or stayed the same in the Chair Stand Test, which assesses lower-body strength and endurance needed for activities such as climbing stairs; walking, and getting up from a seated position.

92% improved or stayed the same in the Chair Sit-and-Reach Test, which assesses lower-body flexibility important in joint pain control and needed for activities such as putting on socks and shoes, dressing and using stairs.

58% improved or stayed the same in the Back Scratch Test which assesses upper-body and shoulder flexibility needed for activities such as combing hair, dressing and reaching.

One participant stated, "Thank you for teaching this class, it means so much to me".

How Does This Work Make Bates County and Missouri Better?

When you support MU Extension's Stay Strong, Stay Healthy program, participants will increase their physical activity and may improve strength, balance and flexibility, resulting in reduced risk for falls, better overall health and greater independence. These health benefits can prolong the need for long-term care, which costs on average \$51,000 per year in Missouri¹. The money saved benefits the community by keeping more discretionary income in circulation locally. It also keeps people actively, independently contributing to society longer.

Nutrition and Health Education—Cooking Matters for Families

Sara Bridgewater, Nutrition and Health Specialist & County Engagement Specialist

The participants in the six-week Cooking Matters courses are adults, teens and children who want to make healthy meals on a budget. They learn to shop smarter, use nutrition information to make healthier choices, and cook delicious, affordable meals.



Number of Bates County residents served

One session was held in 2018 with 6 classes in the session. The classes were held in partnership with Hume R-8 School. There were sixteen participants from Bates County that participated in the class.

Total Hours of Collective Workshop Participation in 2018

Sixteen Bates County individuals benefited from 12 hours of Cooking Matters for Families with a total of 96 educational contacts.

What Did They Learn?

After attending a Cooking Matters six-week course, participants report improved knowledge, skills, and understanding of maintaining a healthier dietary intake, using skills and recipes learned to improve their families diet, and using skills and knowledge to shop healthier and reduce food costs.

What Action Did They Take?

Families reported that they had prepared some of the recipes prepared in class at home.

“Gavin and I spend more time together cooking and shopping. He has a sense of pride knowing he can help.”

“It has been a lot of fun. I’ve enjoyed cooking with my children and look forward to doing it more often with them.”

How Does This Work Make Bates County and Missouri Better?

As part of the No Kid Hungry campaign to end childhood hunger in America, Share Our Strength's Cooking Matters teaches participants to shop smarter, use nutrition information to make healthier choices and cook delicious, affordable meals. Preparing your own food has many advantages, not the least of which you choose your own ingredients which can make for a nutrient packed meal. When families learn cooking basics, it empowers them to contribute to their own health and well-being.

Nutrition and Health Education—Child Care Workshops

Sara Bridgewater, Nutrition and Health Specialist & County Engagement Specialist

Child Care Workshops are offered to child care facilities on many topics such as: Taking Care of You, Food Allergies, ABCs and 123s More Active, Actions Speak Louder than Words. These workshops help child care professionals gain their annual continued education units for the year.

Number of Bates County residents served

Three participants from the Hume R-8 Preschool attended all four workshops that were given.

Total Hours of Collective Workshop Participation in 2018

Four workshops were given, which was a total of six hours.

What Did They Learn?

Participants learned new ways to keep the kids active while learning, new activities to incorporate during the day, and the importance of role modeling.

What Action Did They Take?

The participants expressed that they were going to incorporate new activities they learned from the workshops into their classroom. For example: throwing scarves in the air and the kids catching them to help with hand-eye coordination was a learned be active activity.

How Does This Work Make Bates County and Missouri Better?

Child care professionals that stay up to date on new innovative ways to incorporate in their classroom will be able to create an environment for their students to learn and thrive.

Business Development Program (BDP)

Kelly Asbury, MO SBTDC—State Fair Community College, Sedalia

As entrepreneurs and innovators, Missouri's small businesses are becoming a more diverse group that continues to make the state's economy productive. There are approximately 500,000 small businesses in Missouri. Nearly 98 percent of all businesses with employees are categorized as small businesses. In assisting the owners and managers of those businesses, MU Extension contributes to a county's economic development through growth in jobs, sales, innovation, technology development and commercialization.

Overall, the University of Missouri's Business Development Programs (BDP) served 13, 547 people and their businesses state-wide. The total impact for all businesses assisted by the BDP was:

Sales Increase	\$453,895,246.94
PTAC Awards	\$295,988,671.36
Number of Awards	4,350
New Businesses Starts	284
Jobs Created	2,778
Jobs Retained	5,397
Total Capitalization	\$104,175,953.36
Businesses turned around or failures prevented	14
Acquired Assets	\$13,322,538.00
Clients/Companies Receiving Business Counseling	3,938
Training Event Attendees	9,609

For assistance with starting, managing or growing your business— www.missouribusiness.net

Contact: Kelly Asbury

MO SBTDC – State Fair Community College, Sedalia

Ph. (660) 596-7350

kasbury1@sfccmo.edu

Human Development

Kyleigh Sullivan, Human Development Specialist (Cass County)

Kyleigh Sullivan is a new employee and she has a lot of plans for Bates County in 2019.

I'm excited to begin programming here in Bates County in 2019! I was ecstatic that Judge Julie Highley reached out to us to get Focus on Kids back up and running in Bates County for 2019! We predict that I will be educating about 10 parents a month! But, that's not all I will be doing. I plan on bringing some programs to our older adult community as well. These focus on primarily brain health, fall prevention, and self-advocacy with doctors and family members.

I have a lot more to offer Bates County including relationship and parenting workshops for adults and families, life skills classes for youth, and professional development training for people who work with young people. I am always open to requests so feel free to reach out to the Bates County Extension Office if you have any questions or suggestions for programming in the community.

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 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

Veterinary Medical Extension and Continuing Education (VMECE)

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) 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.

2019 UM Systemwide Impact Data Sheets

Bates County



University of Missouri System
COLUMBIA | KANSAS CITY | ROLLA | ST. LOUIS

UM System Footprint in the county in 2018



Fall county students

45 students

- 38 Undergraduates
- 7 Graduate and professional students
- 33 Full-time students
- 12 Part-time students



County employees and retirees

7 people employed by UM

- 7 Campuses
- 4 UM retirees and beneficiaries
- UM salary and retirement income: \$301,106
- UM state tax revenue: \$8,798
- UM federal tax revenue: \$42,611



County alumni

Selected school alumni

- 3 Medicine
- 9 Nursing
- 9 Health Professions
- 3 Dentistry
- 5 Pharmacy
- 5 Veterinary Medicine
- 69 Agriculture
- 27 Engineering
- 10 Law

Alumni teaching K-12

- 25 teachers
- 11% of all district teachers
- 3 principals and administrators
- 19% of all district principals and administrators



County breakdown

MU

- 9 students
- 180 alumni
- 4 employees

UMKC

- 23 students
- 74 alumni
- 2 employees

Missouri S&T

- 12 students
- 23 alumni
- 1 employee

UMSL

- 1 student
- 1 alumna or alumnus
- 0 employees



County properties and offices

MU Extension in: Bates County



County population: 16,513



County services provided

Health care

- 53 patients seen at UM Health Care, with \$3,578 of uncompensated care
- 52 patients seen at UMKC School of Dentistry with a statewide average of \$53.20 per patient in uncompensated care
- University of Missouri Health Care's Missouri Telehealth Network provided services to 66 patients at 1 site

Extension

- 6,720 Total educational contacts from MU Extension to residents of district counties, including:
- 178 contacts related to productive farming, better gardening, and managing natural resources
- 6,529 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
- 13 contacts related to starting businesses, developing community leaders, or renewing the local economy

2019 UM Systemwide Impact Data Sheets

Bates County



UM System Statewide Footprint

Economic and Community Development Highlights

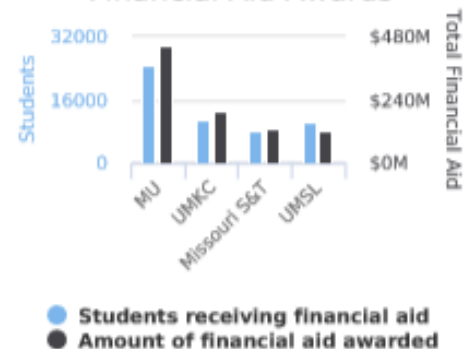
- Business development specialists worked with small businesses and entrepreneurs statewide to create **11,559 jobs**.
-  For every dollar invested in University of Missouri Extension \$11 of public value is returned; generating \$945 million in direct and economic benefit to Missouri in 2016.
- Between FY2012 and FY2017, UM System brought Missouri more than \$11 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



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

