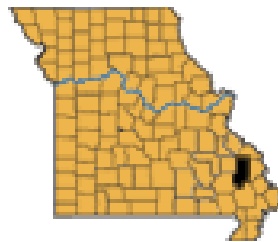


# Bollinger County

## 2018 ANNUAL REPORT



 **Extension**  
*University of Missouri*



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**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 black ink that reads 'Marshall Stewart'.

Marshall Stewart

# A Message from the Council

Dear Friends of Extension:

The University of Missouri Extension Council would like to thank the Bollinger County Commission for supporting extension programs during this past year. We are pleased to present this 2018 Annual Report to give you a brief overview of the programs and educational information that was provided for the citizens of Bollinger County.

In 2018, Missourians all over the state turned to the University of Missouri Extension to help solve problems, gain information, and receive educational programming. As a statewide effort we strive to provide research-based information and educational programs to individuals, families, farmers and businesses. Programs in agriculture and natural resources, 4-H youth development, health and nutrition, business, community development and continuing education have improved their quality of life.

The success of University of Missouri Extension in Bollinger County depends upon the dedication and support of members of the Extension Council.

The Extension Council appreciates the continued support from the county commission, individual volunteers, groups, organizations, business and county citizens. We look forward to the planning, programming and development for the years ahead.

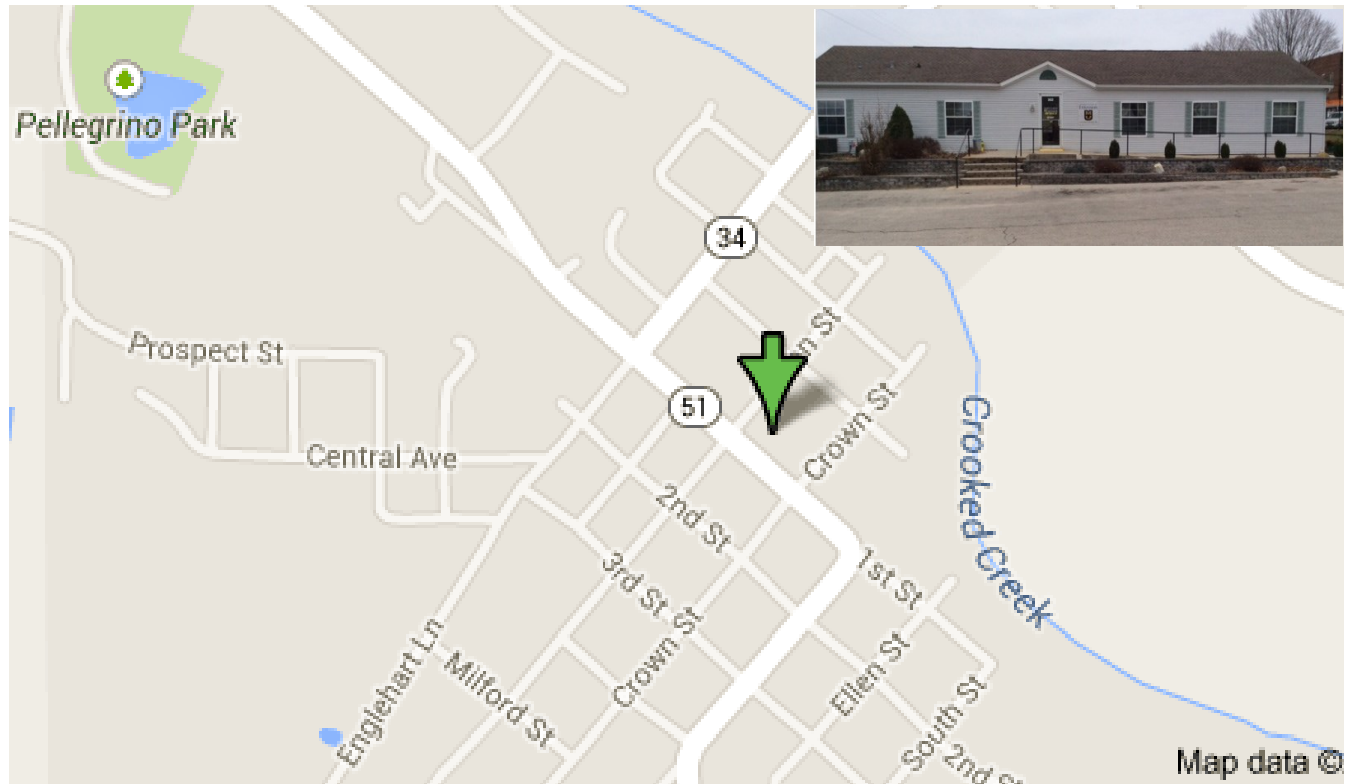
If you would like more information or if we can assist you, please contact the Bollinger County University of Missouri Extension Center.

Barb Bailey  
Bollinger County Extension  
Council Chair

*Robinn Daves-Huey*

Robinn Daves-Huey  
Bollinger County Program Director

# Bollinger County's University Extension



## **Bollinger County Extension Center is located at:**

302 Union Street  
Marble Hill MO 63764  
Tel: (573) 238-2420

### **Office hours:**

Monday-Friday  
8 a.m. to 4 p.m.

**Email:** [bollingerco@missouri.edu](mailto:bollingerco@missouri.edu)

**Website:** [www.extension.missouri.edu/bollinger](http://www.extension.missouri.edu/bollinger)

# Bollinger County Staff

## Staff Based in Bollinger County



**DONNA AUFDENBERG**  
County Program Director  
Field Specialist in Horticulture



**VICKIE SEILER**  
Nutrition Program  
Associate



**WILLIE SAPUTO**  
4-H Youth Program  
Associate



**ROBINN DAVES-HUEY**  
COUNTY ENGAGEMENT  
SPECIALIST IN COMMUNITY  
ECONOMIC DEVELOPMENT



**MELODY WILLIAMS**  
Office Manager

## Additional Staff Serving Bollinger County

Bethany Bachmann, Nutrition Specialist

Ashley Bales, Family Financial Education Specialist

Rebecca Blocker, Housing and Environmental Design Specialist

DeNae Gitonga, Community Development Specialist

Janet Kline, Regional Director

Sarah Denkler, Regional Director

Erin Larimore, Livestock Specialist

Linda Morgan, Regional Coordinator FNP

Anthony Ohmes, Agronomy Specialist

Richard Proffer, Business and Industry Specialist

Frank Wideman, Natural Resource Engineer Specialist

Kristi Baker, 4-H Specialist

# Council Activities

## Extension Council Members

Barb Bailey, Chair

Sharon Hopkins, Vice-Chair

Dana Mayfield, Secretary

Sheila Porter, Treasurer

Travis Elfrink (Commissioner)

Kyla Estes (Farm Bureau)

Paula Bridges

Joe Newell

Rhonda Elfrink

Kim Sawyer

Leonard Fulbright

Micah Bristow

Marissa VanGennip

## Youth on

## Extension Council

Tate Kiefer

Raylee Leimer,

Beth Lincoln

Kyleigh Wolfe



Council members swearing in at the Annual meeting



Ronda Elfrink auctions pies at the Bollinger County Extension council annual meeting



Ashley Bales is talking about "Grandma's Yellow Pie Plate Program"

# Council Activities



Trivia Night Fundraiser was a great success with 76 people in attendance and 9 teams competing for the prizes.



On October 29, 2018 our Office Manager for thirteen years retired. Sue Fisher Eads will be greatly missed and hope she enjoys her retirement. Her plans are to spend time with her family, camping, and fishing.



Punch, cookies, and cake were served to celebrate Sue's retirement. We had over 20 attendees dropping by to wish her the best.





# Bollinger County 4-H

**M** Extension  
University of Missouri

Program Impact 2017-2018

**5 Traditional Clubs**

**3 Project Clubs**

**119 Active Members**  
and Volunteers

**120 Agriculture** Related  
Project Reports

**1 Major Missouri 4-H  
Program Donor** in  
Bollinger County

**101 STEM** Related  
Project Reports

Community Service Hours  
Estimated Value Over

**\$15,670**

Community Fairs  
**95% Involvement**  
2018 Herdsman Award  
\$1200+ in premiums and  
livestock sales

**42 Shooting Sports**  
Project Reports  
5 Certified Leaders

Top Skills Gained:  
**Responsibility**  
**Leadership**  
**Confidence**  
**Independence**  
**Resilience**  
**Compassion**

Event Attendance:  
**1 National**  
**19 State**  
**20 Regional**

**\$1,250** in Academic  
**Scholarships** Received by  
Bollinger County Youth  
from Missouri 4-H  
Foundation

4-H Youth are:  
**2x more** civically active  
**4x more involved in  
communities**  
**2x more** involved in STEM  
**2x more** likely to make  
healthy choices

**52 Healthy Lifestyle**  
Related Project Reports

**2 Missouri 4-H State  
Council Members**

For more information, contact  
Willie Saputo, YPA at 573-238-2420  
[saputow@missouri.edu](mailto:saputow@missouri.edu)

# Bollinger County 4-H

## Missouri Youth Learn Leadership Skills at 4-H Teen Conference

COLUMBIA, Mo. – Leadership skills were in focus for Bollinger County youth who attended last weekend’s 4-H Teen Conference in Columbia. They joined over 270 of their peers, ages 11-13 from 62 Missouri counties, for workshops and activities on the Mizzou Campus and beyond. “For many, it’s their first big trip away from home,” said Willie Saputo, Bollinger County’s 4-H Youth Education Assistant. “They enjoy leadership workshops led by older teen role models, fun activities, and the many new friends they meet along the way.”

Teen Conference is planned each year by the State 4-H Council, an elected group of teen 4-H ambassadors, who design the workshops and play leadership roles throughout the event. “4-H offers youth a positive life trajectory that includes people to look up to and ways to help your community,” said Bradd Anderson, State 4-H Youth Specialist. “When they watch these older teens in active leadership roles at Teen Conference, it sends a powerful message about what they can choose for their own futures. The message is resonating, and Anderson notes that Teen Conference has grown to the point that only one hotel in Columbia has the capacity to hold it.

Attending the two-day Teen Conference were Canyon Leimer, Aiden Brown, Gavyn Moehsmer and Emmett Lape, members of the Crooked Creek 4-H Club and Connor Lincoln and Eva Saputo, members of the Leopold 4-H Club. “Leadership skills help build a solid foundation for success, even for careers that haven’t been invented yet,” said Saputo. “Teen Conference brings the thrill of independence in a safe, inclusive atmosphere, and there’s a confidence that comes from that.”

The 11-13 year old delegates also interacted with top leadership from MU Extension. Dr. Alison Copeland, State 4-H Program Leader, and Dr. Jo Britt-Rankin, MU Extension Youth and Families Senior Program Leader, both engaged with youth during portions of Teen Conference. At the final assembly, Dr. Marshall Stewart, Vice-Chancellor of Extension and Engagement, provided a closing message through an interactive capnote address. Walking among the youth, Stewart challenged them to consider the deeper meaning of the 4-H Pledge as they make life choices: ‘I pledge my head to clearer thinking, my heart to greater loyalty, my hands to larger service, and my health to better living, for my club, my community, my country, and my world.’

Missouri 4-H is open to all children ages 5-18.

For more information, visit

<http://4h.missouri.edu> or contact your local MU Extension Center at [\(573\) 238-2420](tel:5732382420).



Left to right: Connor Lincoln, Eva Saputo, Canyon Leimer, Aiden Brown, Emmet Lape, Gavyn Moehsmer and Raylee Leimer.

# Bollinger County 4-H

## LOCAL TEENS ELECTED TO MISSOURI STATE 4-H COUNCIL

Raylee Leimer of Glen Allen and Beth Lincoln of Whitewater recently returned from Columbia where they were elected as Southeast Regional Representatives to the Missouri State 4-H Council. The election took place as part of the 72<sup>nd</sup> annual State 4-H Congress, May 30 – June 1, which was attended by almost 200 Missouri teens.

The State 4-H Council is a group of teens who represent the voice of youth for Missouri 4-H, serving as mentors, ambassadors, and playing a major role in statewide 4-H events. 4-H is the youth development arm of MU Extension. Last year around 22,000 Missouri children and youth participated in a 4-H club, over 25,000 participated in a school program, and over 183,000 participated in a 4-H special interest program.

Raylee Leimer is a 2017 graduate of Woodland High School and an active member of the Crooked Creek 4-H Club. Beth Lincoln attends Leopold R-3 High School and is an active member of the Leopold 4-H Club.

For more information on Missouri 4-H, visit the 4-H website at <http://4h.missouri.edu>.

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# Bollinger County 4-H

## TEENS GATHER ON MU CAMPUS FOR 73<sup>rd</sup> STATE 4-H CONGRESS

Youth from every corner of the state gathered on the University of Missouri campus May 31 – June 3 for the 72<sup>nd</sup> annual State 4-H Congress. Around 200 teens, ages 14-18, participated in a variety of hands-on workshops that fit their interests. The workshops, ranging from science to leadership in focus, were supplemented with experiences at MU Athletics facilities, social activities, and inspirational speakers throughout the event.

“4-H is about setting your life course on a more positive trajectory,” said Willie Saputo, Bollinger County’s 4-H Youth Program Assistant. “State 4-H Congress helps teens develop important life skills, explore careers and make positive new friends from across the state.” This year five teens from Bollinger County were in attendance. Raylee Leimer and Brookelynn Shell, Crooked Creek 4-H members and Beth Lincoln, Grace Seabaugh and Kyleigh Wolfe, Leopold 4-H members were accompanied by chaperone Nikki Wolfe, the leader of the Leopold 4-H Club.

State 4-H Congress delegates also elect 38 peers to represent them on the state’s 4-H council for the coming year. This council works with faculty from MU and Lincoln University to represent youth and provide a youth voice in the continued development of Missouri 4-H programs.

4-H in Missouri is the youth development arm of MU Extension. About 22,000 Missouri children and youth participate in 4-H clubs, and over 230,000 children and teens in all were reached by Missouri 4-H programs last year. Current research shows that youth involved with 4-H are more likely to pursue careers in science, excel in leadership, go to college, and embrace healthier lifestyles. For more information about Missouri 4-H programs, visit <http://4h.missouri.edu>.



From left to right: Brookelynn Shell, Raylee Leimer, Beth Lincoln, Kyleigh Wolfe, Grace Seabaugh & chaperone Nikki Wolfe.



# Horticulture

Horticulture Specialist  
Donna Aufdenberg



Donna Aufdenberg, Horticulture Specialist, assists homeowners in Southeast Missouri as well as Bollinger County residents on horticulture questions. Donna assists on a variety of topics such as vegetable gardening, flower gardening, houseplants, outdoor plants, insect problems, soil testing and disease diagnostics.

Donna assists commercial fruit and vegetable growers, Farmer's market growers as well as greenhouse growers.

She serves as secretary to the Bollinger County Soil and Water Conservation District Board, a board member to the Bollinger County Recycling Board and secretary to the Bollinger County Farmers Market.

Donna co-writes a gardening newsletter called "The Garden Spade". This newsletter provides gardeners with timely topics on gardening. The newsletter goes out to people throughout the state of Missouri.



In 2018, Donna taught these classes in Bollinger County:

- Backyard Fruit Production - 10 participants
- Seed Starting - 11 participants
- Garden Planting Tips - 10 participants
- Growing Herbs and Using them - 27 participants
- Private Pesticide Applicator Training

## 2018 SUMMARY FOR SOUTHEAST MISSOURI

278 Horticulture Soil Tests

1000+ inquires about horticulture and agriculture information

1000+ Master Gardeners and garden enthusiasts in southeast Missouri receive The Garden Spade monthly newsletter

300+ Insect and Disease Diagnostics

In 2017, Donna conducted Master Gardener training in the Southeast Region. The training covered topics such as plant anatomy, soils, flowers, woody ornamentals, vegetable gardening, herbs, home fruit production, lawn care, diseases and insects, propagation and houseplants. Eleven participants took this training and two of those were Bollinger County residents.



Gardening Class at the Bollinger County Health Center

# Agronomy



Anthony Ohmes  
Agronomy Specialist

Programs	Number of Bollinger County Learners	What Did They Learn?	What Action Did They Take?	How Does This Work Make Bollinger County and Missouri Better?
<b>Missouri Crop Management Systems</b>	6	This program uses multiple delivery methods to target a broad range of learners on various aspects of sustainable crop production. Education events include: direct contact through corn, soybean, certified crop advisor meetings; individual contact through field and office visits, soil test reports, phone calls and email; and indirect contact through extension publications and agronomy fact sheets. Additionally, these programs motivate learners to implement practices that will minimize their impact on the environment.	-20 soil tests -cover crop acres improving water infiltration and decreasing soil erosion -improved nutrient application timing for maximum crop uptake and improved yields -increased knowledge of crop advisors in crop production, pests, soils, nutrients and water quality passed on to producers	The goal for the program is to change row crop management by increasing: <ul style="list-style-type: none"> <li>• Knowledge of available information sources and how to use them in selecting the best crop genetics.</li> <li>• Knowledge of the complex interactions between crop choice, planting date, seeding rate, nutrient management, soil management, and harvest management.</li> <li>• Knowledge of the limitations of different sources of information used in crop management decisions.</li> </ul>
<b>Forage Production and Management</b>	101	This program covers the largest agricultural industry in Missouri. Direct contact at two events: SE Regional Grazing School and Forage Production Workshop. Direct in conjunction with indirect and individual contact through field and office visits, soil test reports, phone calls and email, extension publications and agronomy fact sheets, forage producers learn management of forage resources by improving forage quality, quantity, and persistence. Learning proper grazing and hay harvesting, nutrient distribution, and forage specie selection for improved economic return while protecting the environment.	- 190 soil tests -phosphorus (P) application on low P soils to improve root development and decrease grass tetany -shift to more fall application of nutrients improved persistence and increased stockpiling fescue to reduce hay needs -increase in rotational grazing vs. continuous grazing to improve plant health and nutrient distribution -renovation of pastures with legumes to improve animal gain and reduce dependence on nitrogen -replaced toxic fescue with novel endophyte fescue to improve animal performance	The goal for the program is to change forage management by increasing: <ul style="list-style-type: none"> <li>- Knowledge of managed intensive grazing to improve forage quality, quantity and persistence.</li> <li>-Knowledge of the complex interactions between forage types, planting date, seeding rate, planting methods.</li> <li>-Knowledge of fescue toxicosis and benefits of replacing with novel endophyte fescue</li> <li>-Knowledge of nutrient (manure) management for improved plant development and reduced environmental impact.</li> </ul>

# Agronomy



Anthony Ohmes  
Agronomy Specialist

<p><b>Integrated Pest Management</b></p>		<p>This program is an integral part of all other agronomic programs targeting all aspects of pest management. Forage and row crop producers, agricultural advisors, pesticide applicators learn the necessity of integrating scouting fields, with informed decision making to protect plant yield and quality through pest identification and control strategies that are economically viable and environmentally sound.</p>	<ul style="list-style-type: none"> <li>-planted herbicide tolerant soybeans to improve resistant pigweed control</li> <li>-research based product selection for pasture weeds with IPM guide as tool</li> <li>-weed identification and incorporating mechanical, cultural and chemical methods of controlling</li> </ul>	<p>The goal for the program is to enhance management systems for improving yield and environmental quality by increasing:</p> <ul style="list-style-type: none"> <li>• Knowledge and skills to successfully integrate pest management to delay pesticide resistance and use pesticides only when necessary.</li> <li>• Knowledge related to plant protection including natural and applied controls.</li> <li>• Knowledge of current technologies and recommended control measures.</li> </ul>
<p><b>Sustainable Agriculture</b></p>	<p>69</p>	<p>This program provides timely education through media outlets that promote sustainable agronomic practices. These media outlets include electronic newsletters, news releases, radio interviews and social media.</p>	<ul style="list-style-type: none"> <li>-weekly update for timely pest scouting such as alfalfa weevil and fall armyworm</li> <li>-awareness of invasive pasture weed species</li> <li>-pasture renovation</li> <li>-prussic acid management after a frost</li> <li>-managing hay quality in wet spring</li> <li>-spraying pasture weeds</li> </ul>	<p>The goal for the program is to provide in-season information where changes can be made by increasing:</p> <ul style="list-style-type: none"> <li>• Knowledge of current in-field pest problems.</li> <li>• Knowledge of current weather conditions that influence nutrient loss.</li> <li>• Knowledge of extension education on multiple topics to a broad range of learners.</li> </ul>

# Agronomy

Anthony Ohmes  
Agronomy Specialist



<p><b>Pesticide Applicator Training</b></p>	<p>16</p>	<p>This program provides certification and recertification education to private and commercial pesticide applicators. The education efforts include integrated pest management principles, environmental stewardship, and personal safety when handling pesticides. This education fulfills the legal requirements and provides technical knowledge to make informed decisions before applying a pesticide into the environment and understanding the fate of the pesticide once it is applied.</p>	<ul style="list-style-type: none"> <li>-increased knowledge of the factors that cause pesticide drift</li> <li>-nozzle replacement improved pest control</li> <li>-increased understanding of pesticide labels reduced crop injury concerns</li> <li>-greater understanding of how resistance to pesticides occurs resulted in rotation of pesticide modes of action</li> <li>-increased understanding of the importance of personal protective equipment, especially chemical resistant gloves to reduce exposure.</li> </ul>	<p>The goal for the program is to change management practices that promote the long-term viability of pesticides by increasing:</p> <ul style="list-style-type: none"> <li>•Knowledge that will meet the legal requirements for certification.</li> <li>•Knowledge and skills to properly apply pesticides while reducing transfer processes such as drift, runoff, leaching, volatilization and crop removal.</li> <li>•Knowledge that the responsible use of pesticides will reduce personal exposure and result in a cleaner and safer environment.</li> </ul>
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# Family Nutrition Education

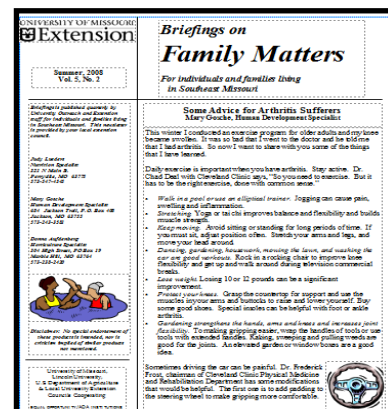
Nutrition Specialist  
Bethany Bachmann



Bethany Bachmann, Nutrition and Health Education Specialist, delivers health related programs to audiences of all ages. Some of the programs she presents includes Home Food Preservation, Stay Strong, Stay Healthy, A Matter of Balance, and Cooking Matters, as well as many others.

The “**Briefings on Family Matters**” is a quarterly newsletter that approximately 50 county residents receive. It consists of information from Mary Engram, human development specialist, Bethany Bachmann, nutrition specialist, Rebecca Blocker, Housing and Environmental Design Specialist and Donna Aufdenberg, horticulture specialist. The articles consist of information for relationships, nutrition and gardening. This newsletter can be found on the web at:

<http://extension.missouri.edu/bollinger/familymatters.aspx>





# Housing and Environment

Rebecca Blocker



Rebecca Blocker is a Housing and Environmental Design Specialist for University of Missouri Extension. In 2018, she worked with Senior Nutrition Centers proving programs on Getting Ready for Winter and No cost or Low cost Ways to Cut Heating Costs. She also consults clients to address specific indoor air quality problems impacting their health, safety and home buying, building and maintaining their home, mold and moisture control.

Rebecca also wrote news and website articles to help Bollinger County citizens survive extreme weather, reduce energy costs and keep their home safe and healthy. Information included: Surviving Summer Heat, Reducing Cooling Costs, Flash Flood Safety, Tornado and severe weather safety. No-Cost Ways to Cut Energy Bills, Winter Preparedness, and Safe Use of Portable Generators.

# Family Financial

Family Financial Education Specialist  
Ashley Bales



Ashley Bales, family financial education specialist with the University of Missouri Extension of Madison County gave her program on “Who gets grandma’s yellow pie plate?” detailed how non-titled property causes more fights in families than titled property. Ashley suggested making lists, creating a family will, and putting stickers on items with the names of the people meant to get each item.

# Livestock Education

Livestock Specialist  
Erin Larimore



## Show-Me-Select Replacement Heifer Program

Producers implement total quality management to on-farm heifer development and improve their herd management, reproduction, and genetics with retained ownership or market heifers for added income. Buyers realize this is a reliable source of quality replacement females based on management, reproduction, and genetics. Buyers improve their herds and experience lower incidence of dystocia and calf or heifer losses. This program enhances marketing opportunities for and adds value to MO-raised heifers.



This program attracted 298 participants including three operations from Bollinger County enrolling heifers into the program as well as registered bidders and buyers. Local sales averaged \$1787 on 135 head of fall-calving heifers and \$2099 on 64 head of spring-calving heifers.

## Farm Day

This event allows children or adults that may not be exposed to agriculture practices to gain a better understanding how farm raised products are produced and where food or other products found at retail markets come from. The beef section teaches area third grade students and adults about where their beef comes from, different beef-derived products and how cattle utilize the land. The event reached 911 participants of which 34 were from Bollinger County.

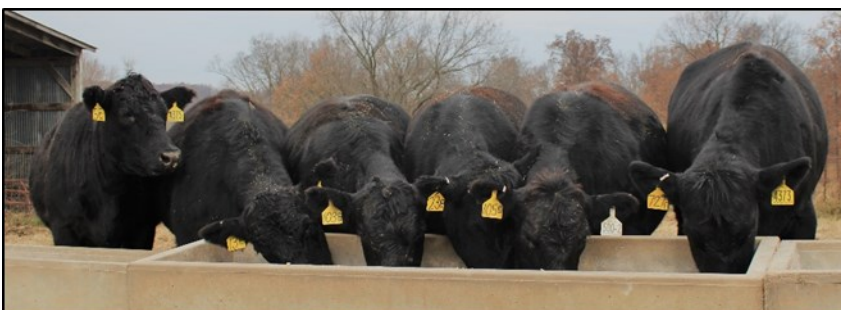


## Beef Production Systems Meetings and Clinics

As part of the SEMO Cattlemen's affiliate organization, Bollinger County hosted a meeting on Missouri Wildlife Management attracting 20 participants. Bollinger Co. residents participated in a variety of meetings covering topics of: cattle feeding, reproduction & genomics, Beef Quality Assurance (BQA) training and certification, novel endophyte fescue, farm security & rural crime, grazing school, electronic-logging device mandates for livestock and ag commodity haulers.

## Youth Programs

Show-Me Quality Assurance (SMQA) training is required to show livestock at the SEMO District Fair. SMQA educates youth about proper animal handling and welfare practices at an early age and increases the chance they will continue utilizing the proper techniques as adults. The training session held in Bollinger County reached 14 residents. Youth participated in other activities including: steer weigh-in, livestock judging contest, SEMO District Fair, prospect show.



**Contacts for Bollinger County residents in calendar year 2018 totaled 341. This includes attendance at educational events, farm visits, and other one-on-one consultations.**

# Century Farm



The Missouri Century Farm program's history dates back to 1976 as a result of the Missouri Committee for Agriculture which was co-chaired by James B. Boillot, Director, Missouri Department of Agriculture, and Elmer R. Kiehl, Dean of the College of Agriculture, University of Missouri. The committee's purpose was to organize the American Revolution Bicentennial celebration in Missouri. One activity that was initiated by the committee was the "Centennial Farm" project which awarded certificates to persons owning farms that had been in the same family for 100 years or more. Interest in the program continued after 1976. The College of Agriculture, Food and Natural Resources and University of Missouri Extension planned a 10-year update in 1986 called the "Century Farm" program. This program has been sustained as a yearly event with over 100 farms recognized each year. In 2008, Missouri Farm Bureau became a program co-sponsor. Bollinger County added three Century Farms in 2018.

## Friese Family

The Friese family farm was acquired through the Homestead Act of 1862 by August C. Friese in the mid 1800's. Since then the farm has been handed down from generation to generation and growing to 300 acres. A cemetery still exists on the original land dating back to the mid 1800's where many Friese ancestors are buried. Today it is managed by 5<sup>th</sup> generation Friese, who is proud to announce it as a Century Farm.



James Friese

In the fall of 2016, I was given the opportunity to purchase this farm. It belonged to my great-great-great grandpa in the late 1880's. I am the sixth generation to have this farm. I am very thankful and hopeful that my boys will continue to operate it in the years to come.



Front row: Chett & Clate VanGennip

Back row: Betsy & Lance VanGennip



# Family Nutrition Education Programs

Nutrition Program Educators  
Vickie Seiler



Total Hours Of Collective Workshop Participation In 2017	Number of Bollinger County Learners	What Did They Learn	What Action did They Take	How does This Work Make Bollinger County and Missouri Better?
<p>1496 collective workshop hours</p>	<p>University of Missouri Extension's Family Nutrition Program (FNP) reached 1995 participants. Of that number, 1813 were direct and 182 indirect nutrition education in Bollinger County during 2018. A significant percentage of these participants were low income. FNP provides information on nutrition, food safety, gardening, and physical activity for life-long health and fitness by working with qualifying schools, community groups and agencies.</p>	<p>Youth from Pre-school to 12th 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 included nutrition, food safety, and physical activity, as well as food resource management.</p>	<p>Nutrition Program Associates (NPA's) teach in schools and other grant eligible locations in the county to help them make healthier choices and build healthy habits. Also, through indirect teaching as well as health fairs or other one time workshops, they impact many people that they are unable to actually see in a classroom setting.</p>	<p>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. 1995 of these participants reside in Bollinger County.</p> <p>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.</p>

# Family Nutrition Education Programs



Nutrition Program Associate  
Vickie Seiler



Advance Elementary School, Submitted by Vickie Seiler, NPA

## Success Stories for Bollinger County:

### Submitted by Vickie Seiler

One day I was at the grocery store when one of my students came up to me. He attended a school that I had just started visiting in the summer. He wanted me to see that he had his mom get him some carrots to snack on because I had said they were a healthy snack. He also wanted to know if I would be coming back to his school during the school year. He said that he hoped that I would because he had really learned a lot about nutrition from when I had been there.

# Recycle

## In Bollinger County



### Since 2010...

Brought **\$73,896**  
into Bollinger County  
through **Grants,  
Donations and Sales.**



Recycled  
**2 Tons**  
Aluminum

# 207 TONS

of Recycled Kept out of  
the **LANDFILL**

Recycled

# 29 Tons

STEEL



**15,000** Volunteer Hours  
&  
**125,000** Miles Donated!  
Worth OVER

# \$225,000

# 31 Tons of Plastics



# 128 Tons of Paper



# TWO JOBS

Through the Experienced  
Works Program

Helping the State of  
Missouri meet it's mandate  
to keep 40% of recyclables  
out of landfills.

Improved the  
structure of the old  
Pork Producer's sale  
barn...

All-Volunteer  
Non-Profit dedicated  
to recycling!

AND THE  
WINNER IS!....

2011 "Excellence in  
Volunteerism" award by  
the Missouri Recycling  
Association

Recycling Partners: Bollinger County  
Commission, MU Extension, Dept of  
Natural Resources Solid Waste District

Located on Hwy 51, 7 miles North of  
Marble Hill, MO; 24/7;

For more information, contact:  
BollingerCountyRecycling@yahoo.com  
Or call (573)238-4612;



# State Fair Farm Family

## Local residents chosen as State Fair Farm Family for Bollinger County

Marble Hill, Mo. — Tyler and Whitney Welker of Marble Hill were among the families honored during the 60th annual Missouri Farm Family Day, Aug. 13 at the Missouri State Fair.

The Welker family was selected as the Bollinger County Missouri Farm Family by University of Missouri Extension in Bollinger County and the local Farm Bureau. Each year, the fair sets aside a day to recognize farm families from across the state that are active in their communities, involved in agriculture, and/or participate in local outreach and extension programs such as 4-H or FFA.

The annual event is sponsored by five partner agencies: the Missouri Farm Bureau, the Missouri Department of Agriculture, the Missouri State Fair Commissioners, the MU College of Agriculture, Food and Natural Resources, and MU Extension and Engagement.

This year, all 114 Missouri counties plus the City of St. Louis participated, honoring nearly 490 people from 115 farm families. The event showcases the impact Missouri Farm Families have on the economy and heritage of the state, said Missouri State Fair Director Mark Wolfe. “These families are involved in agriculture activities in their communities and are active participants in local outreach and extension. As the premier showcase for Missouri agriculture, the Missouri State Fair is most certainly the appropriate place to celebrate these families.”



**Foreground:** Whitney and Tyler Welker

**Also in the pictured behind the family are: (left to right) MO. State Fair Commissioners: Kevin Roberts, Sherry Jones and Jack Magruder; Blake Naughton, Assoc. Vice Chancellor for MU Extension & Engagement; Rob Kallenbach, Asst. Dean- MU College of Agriculture, Food and Natural Resources; Todd Hays, MO Farm Bureau Board of Director’s Vice President; Mark Wolfe, MO. State Fair Director; and Garrett Hawkins, Deputy Director Mo. Dept. of Agriculture.**

# Mission



The Mission of University of Missouri Extension is to

*Improve Missourians' lives by addressing their highest priorities through the application of research-based knowledge and resources.*

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

- \* University of Missouri campus
- \* 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

#### **Diverse, Experienced and Well Trained Staff**

The staff of the University Extension office in Bollinger County is diverse, representing a variety of backgrounds, experiences and educational levels. Staff members have owned their own businesses, worked for other educational institutions, worked in the public and private sector and collectively have over 15 years of work experience with University Extension.



# Bollinger County



## UM System Footprint in the County in 2017



### Students

**10 County students**

- 7 Undergraduates
- 3 Graduates
- 8 Full-time students
- 2 Part-time students



### Employees and retirees

**5 people employed by UM**

- 5 Campus

**1 UM retiree or beneficiary**

UM salary and retirement income: \$43,358

UM state tax revenue: \$704

UM federal tax revenue: \$6,506



### Alumni

**Selected school alumni**

- 4 - Nursing
- 4 - Health Professions
- 2 - Dentistry
- 1 - Pharmacy
- 2 - Veterinary Medicine
- 16 - Agriculture
- 11 - Engineering
- 4 - Law

**Alumni teaching K-12**

- 6 teachers
- 4% of all county teachers



### Breakdown by campus

**MU**

- 3 students
- 51 alumni
- 5 employees

**UMKC**

- 1 students
- 3 alumni
- 0 employees

**Missouri S&T**

- 4 students
- 10 alumni
- 0 employees

**UMSL**

- 2 students
- 15 alumni
- 0 employees



County population:  
12,356



### Services provided

**Health care**

- 3 patients seen at UM Health Care, with \$50,522 of uncompensated care
- 1 patient seen at the UMKC School of Dentistry with an average of \$54 per patient in uncompensated care

**Extension**

- 12,826 total educational contacts from MU Extension to residents of county, including:
  - 2,422 contacts related to productive farming, better gardening, and managing natural resources
  - 10,209 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
  - 195 contacts related to starting businesses, developing community leaders, or renewing the local economy



### Properties and offices

MU Extension in: Bollinger County

# Bollinger 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

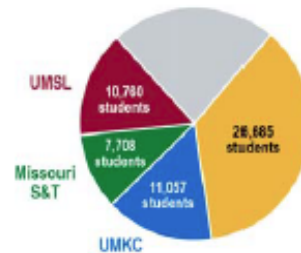


Agriculture and natural resource programs served 94,830 farmers and related businesses



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 (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



# Financial Report

Bollinger County Extension is funded through a three way partnership between federal, state and county government. County funding provides the local Extension Center with office space, operation cost which includes secretary salary, travel expense of specialists who conduct educational programs in Bollinger County, telephone, and other miscellaneous council costs for programming.



**BOLLINGER COUNTY COMMISSIONERS**

Travis Elfrink, Roger VanGennip, and Roy Garner

**2018 FINANCIAL REPORT**

**INCOME**

County appropriations	\$26,000.00
<b>TOTAL INCOME</b>	<b>\$26,000.00</b>

**EXPENSES**

Secretary Salary	\$19,300.00
Payroll expenses	\$1,500.00
Travel reimbursement	\$1,400.00
Postage	\$300.00
Rent/Lease Space	\$100.00
Phone	\$1,400.00
Supplies/Services	\$1,200.00
4-H Development	\$500.00
Other (IT Service)	\$300.00

<b>TOTAL EXPENSES</b>	<b>\$26,000.00</b>
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<b>BALANCE</b>	<b>\$0</b>
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**DID YOU KNOW?**

You can direct your donation to a specific county as a gift to be used immediately or as an endowment contribution to support the county's efforts long term. Gifts are generally used within one to two years. Monies put into an endowment are left in the fund forever to earn interest; once the endowment is fully funded, the county extension office receives the earnings monthly—forever.

You can also direct your donation to a specific MU Extension program, such as your county's Master Gardener or 4-H program.