



UNIVERSITY OF MISSOURI EXTENSION

Howard County 2018 Annual Report



Reliable, Responsive and Relevant to Today's Needs

**OFFICE OF THE VICE CHANCELLOR
FOR EXTENSION AND ENGAGEMENT**108 Whitten Hall
University of Missouri
Columbia, MO 65211PHONE 573-882-2394
EMAIL email@missouri.edu
WEB extension.missouri.edu

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



Table of contents

Who we are	4
Program overviews	
4-H Education	5
Livestock Education	6-9
Private Pesticide Applicator Training	10
Fence Law Program.....	10
Soil Sampling Helps Crops	10
Agricultural Business	11
Agronomy Report.....	12
Family Nutrition Program	13-14
Missouri Livestock Symposium.....	15
Outreach	16-17
Continuing Education.....	18-19
Howard County Extension Center Local Services	20
Historical Photo Submissions of Agriculture in Howard County	21

Who we are

Howard County Extension Council

Megan Felten-Chair
 Jessica Gregory-Vice Chair
 Logan Chrislaw-Secretary
 Julie Monnig-Treasurer
 Bridgett Bonecutter
 Megan Dougherty
 Tammy Hackman
 Jeremiah Johnmeyer
 Michele Johnmeyer
 Tina Rice
 Chris Rohfling
 Elisha Stroup

About us

Location:
 600 W Morrison, Suite 17
 Fayette, MO 65248

Hours:
 8:30 am to 4:00 pm
 Closed for lunch 11:30-noon

Contact info:
 660-248-2272 or email at
 howardco@missouri.edu

Howard County faculty and staff

Heather Conrow
Livestock Specialist and County Program Director

Tara Kunze
Youth Program Assistant

Marilyn Dilts
Office Manager

Howard County Commissioners

Sam Stroupe
 Presiding Commissioner

Richard Conrow
 Associate Commissioner

Howard McMillan
 Associate Commissioner

Staff serving Howard County, (based in other counties)

Charles A. Holland
Community Economic Development Specialist

Brooke Jameson
4-H Youth Development Specialist

Tish Johnson
Community Development Specialist

Joseph Koenen
Agriculture Business Specialist

Todd Lorenz
Horticulture/Agronomy Specialist

Jolene Rodgers
Nutrition Program Associate

Kent Shannon
Natural Resource Engineer

Jeremiah Terrell
Human Development & Family Science Specialist

Every Missouri County has an Extension Council comprised of elected and appointed citizens who guide local educational programming.

Council members are partners in the educational process, from needs assessment through program implementation and evaluation of outcomes.

Extension Council members...

- ✦ Work with regional faculty to determine educational programs for the county
- ✦ Manage finances of local extension operations
- ✦ Provide personnel to carry out Extension activities
- ✦ Elect and organize the local Extension Council

4-H Education

Howard County 4-H Grows Future Leaders

4-H project work and related educational experiences help youth explore interests in citizenship, communications and leadership. 4-H youth report three times more opportunities than their non-4-H peers to engage in meaningfully community leadership roles. This interest in leadership and community service, along with 4-H members' 70% greater likelihood to go to college, is growing leaders today and for tomorrow.

Missouri 4-H volunteers responding to a survey, report they contribute on average 100 hours per year. Valuing their time at \$19.00 per hour, based on average Missouri incomes, the contribution of Howard County 4-H volunteers was worth more than \$153,900 in 2018. More importantly, these adults serve as mentors for our youth helping them transition into healthy adulthood, priceless!

The 4-H Study of Positive Youth Development, an ongoing longitudinal study that began in 2002, discovered some measurable differences between 4-H members and their non 4-H peers.

Compared to non-4-H Youth, 4-H Youth are:

- ◆ 41% less likely to engage in risky behaviors
- ◆ 70% more likely to participate in science, engineering or computer technology programs
- ◆ 40% more likely to pursue science, engineering or computer technology courses or careers
- ◆ 70% more likely to go on to college
- ◆ 20% more likely to graduate from college
- ◆ 25% more likely to positively contribute to their families and communities

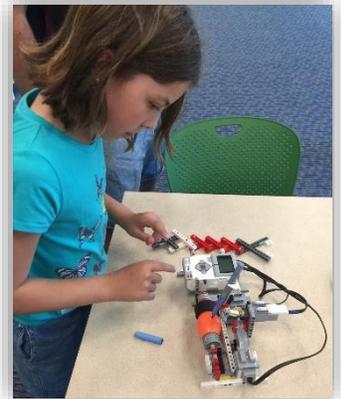
4-H Youth are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. Missouri 4-H members spend almost nine times more of their leisure time than peers engaged in projects anchored in science. As a result, 4-H members are three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008). Fostering career development is the fact that Missouri 4-H members are connected to college campuses and faculty. MU Extension 4-H connects 8,500 young people to University of Missouri campuses. Being on campus is a predictor of youth going onto higher education (Hoover, 2006).

Youth who earn their bachelor's degree, increase annual earnings by \$2 million over their lifetime (NACUBO, 2012). If 50% of the Howard County members participating in 4-H events go onto earning their Bachelors, 4-H would help young people earn \$292 million more of lifetime earnings.

Missouri 4-H members also learn to use these talents to engage in their communities. Young people in 4-H are engaged in twice as many leadership roles than their non-4-H peers. This provides them with the experience in problem-solving to step up and lead in a complex, changing world.



Members of the Muzzleloading team (from left) Stephen Coy, Trace Chambers, and Tyler Hackman placed at the Missouri State Shoot in 2018.



4-H is Growing Future Leaders!

Number of Howard County Learners:

- ◆ 292 4-H Members
- ◆ 12 Clover Kids
- ◆ 81 Trained Volunteers
- ◆ Representing 183 Families

Top 10 Howard County 4-H Projects:

- ◆ Country Cured Hams/Bacon: 53
- ◆ Beef: 47
- ◆ Archery: 32
- ◆ Cake Decorating: 28
- ◆ Arts & Crafts: 27
- ◆ Woodworking: 23
- ◆ Meat Goats: 22
- ◆ Photography: 19
- ◆ Horse: 17
- ◆ Shooting Sports: 17

Howard County 4-H Clubs:

- ◆ Cherry Grove
- ◆ Fayette Fellowship
- ◆ Sharon Boosters
- ◆ Steinmentz

Livestock Education

Show-Me-Quality Assurance

Heather Conrow
Livestock Specialist



Number of County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
<p>~ Total reported attendance for Show-Me-Quality Assurance training programs was 144: representing 17 counties in Missouri</p> <p>~ In Howard County, 25 learners participated in Show-Me-Quality Assurance training</p> <p>~ Participants also included learners from:</p> <ul style="list-style-type: none"> Callaway (14) Cape Girardeau (3) Cass (1) Cedar (1) Cole (22) Cooper (1) Gasconade (3) Gentry (1) Green (2) Lafayette (11) Linn (1) Maries (5) Marion (15) Monroe (2) Phelps (19) and Randolph (18) Counties 	<p>~ A total of 432 hours of learning</p> <p>~ Hours of learning by county:</p> <ul style="list-style-type: none"> Callaway: 42 Cape Girardeau: 9 Cass: 3 Cedar: 3 Cole: 66 Cooper: 3 Gasconade: 9 Gentry: 3 Green: 6 Howard: 75 Lafayette: 33 Linn: 3 Maries: 15 Marion: 45 Monroe: 6 Phelps: 57 Randolph: 54 	<p>~ Participants learned what quality assurance is and why it is important to the consumer and producer</p> <p>~ Participants learned how youth market projects fit into the food supply and youth participant's part in assuring a safe food product</p> <p>~ Participants learned what the basic needs of all animals are and how to provide for them</p> <p>~ Participants learned ways of approaching animals safely and how to handle them properly</p> <p>~ Participants learned why it is important to producers to avoid damage to tissue and where the higher value cuts of meat are located</p> <p>~ Participants learned why it is important to identify individual animals and the different types for each species</p> <p>~ Participants learned what information is provided on feed labels</p> <p>~ Participants learned what biosecurity is and the importance of maintaining records</p> <p>~ Participants learned the importance of ethics and how youth livestock projects develop those traits</p>	<p>~ Youth participants are better equipped with the knowledge needed to produce a safe food product</p> <p>~ Youth participants provide a positive representation to the public regarding animal welfare</p> <p>~ Youth produce a safe, high quality meat product</p>	<p>~ The public is becoming further and further removed from the farm and knowledge of agricultural practices</p> <p>~ Youth livestock exhibitors represent to people who are not well acquainted with agriculture where their food originates. In some cases, providing the only contact the public has with agriculture through the fair setting</p> <p>~ This program has allowed the industry to maintain open markets for show animals to be processed</p> <p>~ Overall, the number of positive drug residue tests in show animals has decreased</p>

Livestock Education

Regional Management Intensive Grazing School



Heather Conrow
Livestock Specialist

Number of County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
<p>~ Total reported attendance for the Management Intensive Grazing School was 26 participants; representing 10 counties in Missouri</p> <p>~ In Howard County, 8 learners participated in the Management Intensive Grazing School</p> <p>~ Participants also included learners from: Audrain (3) Boone (1) Callaway (1) Cole (1) Cooper (3) Pettis (2) Randolph (4) Saline (2) and St. Louis (1) Counties in Missouri</p>	<p>~ A total of 468 hours of learning</p> <p>~ Hours of learning by county: Audrain: 54 Boone: 18 Callaway: 18 Cole: 18 Cooper: 54 Howard: 144 Pettis: 36 Randolph: 72 Saline: 36 St. Louis: 18</p>	<p>~ Management intensive grazing schools are designed to teach producers the art and science of management intensive grazing with a hands-on approach</p> <p>~ This two-day intensive workshop provided opportunities for in-depth discussions, field exercises, and reference materials which cover both livestock and agronomic topics related to grazing</p> <p>~ Livestock producers saw the impact of management intensive grazing through hands-on farm tours/pasture walks with much input and discussion covering the positive and negative aspects of what works on a producers farm</p> <p>~ The following topics were covered: Introduction to Management Intensive Grazing, Resource Evaluation, Plant Growth, Forage Quality, Livestock Nutrition on Pasture, Soil Fertility and Landscape Ecology, Layout and Design, Fence and Water Technology, and Economics</p>	<p>~ Based on an end of program survey, participants indicated they would make the following changes to their operations:</p> <ul style="list-style-type: none"> • Use rotational grazing: 68% plan to adopt; 16% currently use • Extend the grazing season: 68% plan to adopt; 11% currently use • Better manage soil fertility: 68% plan to adopt; 16% currently use • Interseed legumes or plant warm-season forages: 47% plan to adopt; 21% currently use • Add more livestock: 42% plan to adopt; 5% currently use • Feed less harvested forage: 58% plan to adopt; 5% currently use • Feed purchased supplements: 5% plan to adopt; 53% use currently; 11% no plans to adopt; 5% use but plan to discontinue 	<p>~ Participants benefit by improving on-farm management of their forage resources, extending the grazing season, improving forage quality, and decreasing input costs</p> <p>~ Forage production is key to Howard County's agricultural industry. Skills learned in these schools improve production and profits for county livestock producers</p> <p>~ Management Intensive Grazing Schools help producers conserve soil and water for future generations by providing knowledge and resources</p> <p>~ When you support University of Missouri Extension conferences, such as the Regional Management Intensive Grazing School, producers are provided the opportunity to gain hands on experience with tools and technologies, which may increase the profitability of their operations. This in turn benefits the county as well as the state of Missouri</p>



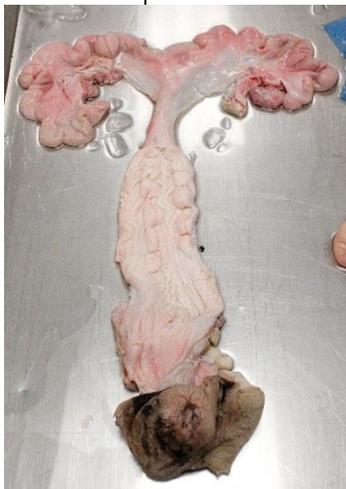
Livestock Education

Bradford Research Farm Ag Field Day



Heather Conrow
Livestock Specialist

Number of County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
<p>~ Total registered attendance for the Bradford Research Farm Ag Field Day was 1,867 participants: representing 63 high schools in Missouri</p>	<p>~ A total of 9,335 hours of learning</p>	<p>~ Participants learned the parts and functions of the female reproductive tract</p> <p>~ Participants learned the role of various hormones including: estrogen, luteinizing hormone, progesterone, and PGF2 alpha</p> <p>~ Participants learned how ovulation occurs and the hormones involved</p> <p>~ Participants learned when artificial insemination should occur in the pig</p> <p>~ Participants learned the art of artificial insemination through hands-on exploration and learning by practicing on actual reproductive tracts</p> <p>~ Participants learned how pregnancy is maintained and explored an actual pregnant tract</p>	<p>~ No exit survey was provided; however, feedback included:</p> <ul style="list-style-type: none"> • “This was very interesting.” • “I learned a lot more about the hormones.” • “Thank you for coming to today. The information was great!” • “I’ve never seen a pregnant tract like that, very interesting.” • “The pregnant tract was huge.” 	<p>~ When you support University of Missouri Extension programs, such as the Bradford Research Farm Ag Field Day, students are provided the opportunity to gain hands on experience with tools and technologies they might not otherwise get exposure to. This in turn benefits the county as well as the state of Missouri</p> <p>~ Opportunities such as these, expose students to areas of agri-science which could lead to a future career in the agriculture industry</p>



Livestock Education

72nd Annual Howard County Farm Tour



Heather Conrow
Livestock Specialist

Number of County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	How Does This Work Make Howard County and Missouri Better?
<p>~ Total reported attendance for the 72nd Annual Howard County Farm Tour was over 100 participants</p> 	<p>~ At least 300 hours of learning</p>	<p>~ The 72nd Annual Howard County Farm Tour visited two sites within the Salt Creek Tree Farm</p> <p>~ Adult participants learned the following about Salt Creek Tree Farm:</p> <ul style="list-style-type: none"> • Consists of 400 acres of growing fields • Supply many of their own trees to the distribution lot and Superior Garden Center • Grows almost 50 varieties, specializing in crabapples and maples • Recently expanded into growing a selection of shrubs at the container lot <p>~ This year a youth activity was provided, which included building bee houses</p> <p>~ Youth participants learned the following:</p> <ul style="list-style-type: none"> • The definition of pollination • Bees are responsible for pollinating flowers • There is only one Queen bee per colony • She lays 10,000 eggs per day • Drone bees get kicked out of the hive at the end of the season 	<p>~ When rural residents and townspeople understand each other, they can better utilize their talents to increase economic and business development opportunities in their county and throughout the state of Missouri</p> <p>~ When you support University of Missouri Extension programs, such as the 72nd Annual Howard County Farm Tour, participants are provided the opportunity to gain knowledge regarding agriculture, the tools and technologies the industry uses and the depth of agri-business in their county. This in turn benefits the county as well as the state of Missouri</p> <p>~ The agriculture industry is responsible for feeding a growing population. Tours such as this one, allow non-agriculture people to see how the industry accomplishes this large feat</p>
			
			
			

Private Pesticide Applicator Training

The Private Pesticide Applicator Training (PPAT) program certifies and recertifies producers in proper handling and application of restricted use pesticides. In 2018, 25 Howard County farmers attended this program with 3 certifying for the first time where they learned proper pest identification, economic thresholds and economic injury levels. Producers learned of the need for emergency planning procedures and the environmental ramification of improper application. By supporting the PPAT program, producers gain skills that lead to improved efficiencies of production, profitability and sustainability in their farming operations. This benefits the citizens by improving environmental quality through timely applications and improved utilization in critical watersheds, which protect and enhance natural resources and water quality.

Fence Law Program

Knowing which fence law is in effect in the county and following that law helps lower conflicts between landowners. This in turn reduces litigation costs. Figuring an average of \$150 per hour for an attorney, this program can potentially save Missouri landowners \$45,900 in legal fees. This helps Missouri livestock producers to be more profitable due to lower fencing costs of their own in addition to less litigation fees.

Participants learned about the two different fence laws in place in Missouri and what county has which law. They also learned:

- ◆ what each law requires the landowner to do fence-wise
- ◆ which portion of a boundary fence each landowner must maintain
- ◆ where they can find additional resources and assistance on the fence law in effect in Howard County

Soil Sampling Helps Crops

In 2018, there were 52 Howard County contacts to communicate with agricultural producers to provide information and/or resources to manage the forage production, crop management systems and watershed management situations that were being encountered in their production efforts in forage and row crops. Additionally, University of Missouri soil test reports were provided on 26 producer soil samples.



PROGRAM AREA –AGRICULTURAL BUSINESS

PRESENTER NAME: DARLA CAMPBELL, JOE KOENEN, CHRIS KEMPKE
 PROGRAM NAME – YOUR FARM, YOUR BUSINESS, YOUR FUTURE



Number of Howard County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
2 participants There were a total of 17 participants at 4 sites.	18 hours (9 hours x number of county participants)	Class participants learned about: <ul style="list-style-type: none"> • Writing business goals and mission statements • Effective communication techniques • Dealing with conflict • Understanding generational differences • Succession planning • Estate planning • Retirement planning 	Attendees will review how their property is titled They will use POD and TOD when possible to transfer their assets They will discuss their estate and succession plan with their heirs They will encourage their children and grandchildren to start saving for retirement	When you support MU Extension’s Your Farm, Your Business, Your Future program, you prepare families to better understand how to transfer the farm or business, protect the estate’s assets, and communicate more effectively with professional advisors and heirs This helps foster family communication and avoid costly litigation and aids in the continuation of the farm business If families save 6 hours of legal time, the value of this class is \$1,800. (2 participants total from this county x \$150/hour x 6 hours)



2018 Agronomy Report

Todd Lorenz, Field Specialist in Agronomy

The effect of 2018 weather extremes have not been more evident in some time for our producers. Both livestock and row crop production sustained significant weather related challenges for the entire year. The plight of central Missouri production agriculture this year was preceded by consecutive years of different but still challenging weather patterns.

Following a dry 2017 with limited fall forage growth, April was the second coldest and May turned out to be the hottest on record since 1895. The resulting physiological effect was reduced growth in April due to the cold followed by a hot May, which triggered early reproductive growth. This double hit on our forage resulted in 50 – 75% reduction in forage production for 2018. The previous years of below average moisture coupled with these temperature extremes led to lack of water and many livestock producers were hauling water for the first time in decades. Limited forage growth resulted in early use of limited winter reserves. Livestock producers were scrambling to find forage options. While hay prices soared, many opted to include cover crop options of fall seeded wheat and rye to help cover the spread. A “million dollar” fall rain provided some pasture ground rebound for a little relief.

When combining the heat of May with the eighth hottest June, we recorded the hottest May-June on record. While the impact affected North West Missouri first, Central Missouri counties, including Howard County, were pushed into a D4 (Exceptional Drought) by the August 14 report of the US Drought Monitor. University of Missouri Extension specialist rallied around the state, to get producers drought meetings delivered. Managing forages through the drought was the topic of particular interest.

Early planted corn and soybeans emerged late followed by droughty conditions that hastened maturity for early corn harvest. However, November was the fourth coldest on record with snow accumulation we have not seen in decades. Moisture accumulations limited soybean harvest efficiency and in some fields, snow was gripping the pods.

With all of those challenges, the impression of 2018 was that it turned out better than our May-June production predictions. We do live in a transitional climate in Missouri where we are constantly fluctuating with similar weather patterns of Michigan winters and Georgia summers. This transitional climate is likely how the phrase, “in Missouri, you are never more than 7 days away from a drought and 7 days away from a flood” came about.

It is in years like these that I reflect on the Paul Harvey speech “So God made a Farmer” at the 1978 Future Farmers of America Convention. It truly takes a great caretaker to survive the ever-changing complexities that production agriculture provides to these stewards of the land.



FAMILY NUTRITION PROGRAM (FNP)
HOWARD COUNTY



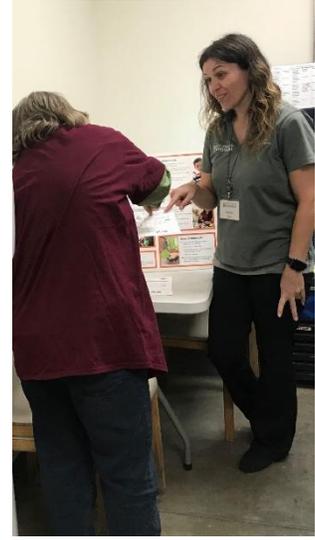
Jolene Rodgers
Nutrition Program Associate

Number of Howard County Learners	Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
<p>University of Missouri Extension’s Family Nutrition Program (FNP) reached 317 participants directly and 540 indirectly with nutrition education in Howard County during 2018 a significant percentage of which were low income. FNP provides information on nutrition, food safety, and physical activity for lifelong health and fitness by working with qualifying schools, community groups and agencies</p>	<p>1,037 collective workshop hours</p>	<p>Youth from pre-school to 8th grade learned through kid-friendly, hands-on lessons and activities. Activities include opportunities for taste-testing healthy foods and practicing skills that lead to good health. Education for adults also includes nutrition, food safety, and physical activity, as well as food resource management</p>	<p>Nutrition Program Associates (NPA’s) go into schools and other grant eligible locations and interact with community members to help them make healthier choices and build healthy habits. They see the difference the program makes in people’s lives</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. 857 of these participants reside in Howard 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>



(Left) Jolene working with Kelly Rich, Nutrition Program Associate from Boone County during an Eating Smart Being Active class.

(Right) Jolene working with a client from a distribution center.



Success Stories:

- While teaching a Healthy Change Workshop at the Howard County Health Department, a mom came in with her two little girls. The mom was talking with the Health Department nurse and the girls were getting fussy, so I asked if I could read them a story. I always carry a few copies of our story/coloring book, From the Farm to You in my bag. They both climbed up on my lap and I read to them, of course asking the girls questions the whole time. I learned that neither liked tomatoes but loved ketchup, so I told them that ketchup was just smooshed up tomatoes. They could not believe that, they taste so different they both told me. I asked them to do me one favor, the next time mom had tomatoes to try just a bite or two. They told me they had a garden at home with lots of tomatoes in it, and they would try some. Of course, I gave each of them their very own coloring book, the mom told me I saved the day and gave the girls something fun and very educational to do.
- I had been programing a lot at local food distribution sites and since school had just started, I had seen both adults and youth. I talked with the families about eating healthy and physical activity after they got home from school, as many kids like to play video games and snack. One girl in 3rd grade told me that after school, she and her older sister's favorite thing to do is go on a hike around the neighborhood. She told me that sometimes they plan a day and all of her friends go too. Her older sister made a scavenger hunt for them and the last thing the girls had to do was find a form of exercise. They all grabbed their bikes. Of course, that turned into riding around the neighborhood. Her mom said that her kids are always on the go, they would much rather be outside than watching TV!

Missouri Livestock Symposium



Total Hours of Collective Workshop Participation in 2018	What Did They Learn?	What Action Did They Take?	How Does This Work Make Howard County and Missouri Better?
<p>3,425 hours</p>  <p><i>Above: Over 80 agriculturally-related businesses, commodity groups, and organizations displayed their products for Missouri producers to see in the trade show. One of the trade show participants keeps coming back because this event “draws diverse crowds.” Another one stated, “good attendance, with people that have a need for our product.”</i></p>  <p><i>Left: Saturday workshop participants engaged in one of the 48 individual sessions.</i></p>	<p>The Missouri Livestock Symposium is an annual educational program and trade show that attracts participants from throughout Missouri and beyond. It is recognized nationally as an outstanding program that targets agricultural producers and landowners</p> <p>Curricula includes workshops led by nationally-known speakers in the areas of horses, beef, sheep, stock dogs, meat goats, forages, around the home, small poultry production and farm continuation planning</p> <p>Comments:</p> <ul style="list-style-type: none"> • “Interesting speakers and able to reach a group that without the Symposium we would not be able to meet.” • “Great event highlighting livestock production and ag.” <p><i>Left: Saturday workshop participants engaged in one of the 48 individual sessions.</i></p>	<p>Based on post-session (retrospective) evaluations:</p> <ul style="list-style-type: none"> • 82 percent of participating producers indicated that they had an increased level of understanding on the principles provided in the sections of beef cattle, horse, sheep, meat goats, forages and stock dogs • On average, 87.5 percent of responding participants indicated they will adopt technologies presented in their respective sessions 	<p>Public funding helps support the Missouri Livestock Symposium with objectives to provide educational opportunities for livestock producers and landowners representing all species of livestock, forages, and renewable resources and to promote the adoption of best management practices that are economically and environmentally beneficial</p> <p>The producer benefits from this program by being better able to manage their livestock and their financial resources</p> <p>Financially successful producers provide a basis for successful communities</p> <p>Missourians benefit by keeping farm and ranch families in rural communities and improved natural resource stewardship</p>

Outreach

Keller Building Open House

The Howard County Extension Council hosted an Open House for the Keller Building on February 1 highlighting businesses and services offered to Howard County. Twelve different businesses from emergency services to the food pantry welcomed community members from 4 to 7 p.m. and shared information of their services. Visitors who brought a donation of a canned good or boxed food item to benefit the Fayette Food Pantry, or a \$5 donation received a chili dinner. More than 138 pounds of food was received and donated to the Fayette Food Pantry. At least 66 visitors signed a guest book, and 45 adult guests participated in an opportunity for door prizes by having a card stamped when they visited with each of the businesses. Children were not left out of the fun. Twenty-six children engaged in the 4-H Fun Zone including games, making spaghetti towers and making foam/slime. Children completing all of the activities in the 4-H Fun Zone received a gift certificate for ice cream from Dairy Queen.

The University of Missouri Howard County Extension office also held two sessions of Personal Pesticide Applicators training, one each in the afternoon and evening with time for participants to enjoy the Open House. There were 18 participants in the trainings.

A photo contest sponsored by the Howard County Extension was held highlighting the history of agriculture in Howard County. There were 41 entries in the photo contest and 83 historical photos were donated. Taking first place in the youth competition was Logan Thies with her entry *Hungry Feet*. Lyndi Thies' entry *Seeing the Light* received second place, and *Tree Crawler* by Logan Thies received third place in the youth competition. Amber Vroman was awarded first place for her entry *Bottle Calf Connection* in the adult category. She swept the adult competition awards with *Spring Snow* taking second and *This Calf I Love* receiving third. Winning the "People's Choice" award was Amber Vroman for her photo *Farm Gals*.

Participating businesses included: Central Missouri Community Action, Fayette Ministerial Alliance Food Pantry, Fitzgibbon Family Health, Howard County Ambulance District, Howard County Prosecuting Attorney, Howard County Public Health Department, Mary Brady Kavack LPC, Missouri State Highway Patrol, Riekhoff Law Office LLC, Rejuvenate You, The Hair Shoppe, and University of Missouri Extension Office. Also housed in the Keller Building is the Howard County 911 and Howard County Emergency Management offices.

This event offered an opportunity for Howard County residents to see what the Keller Building businesses have to offer, ask questions, and meet many of the businesses.





MU Extension Continuing Education

Missouri University Conference Office

The MU Conference Office provides high-quality, professional, full-service meeting management for a variety of noncredit educational programs, such as conferences, workshops, seminars and symposia. Whether a meeting is hosted on campus, in out-state Missouri or anywhere in the world, the office's professional staff provides assistance to create the best learning environment for participants. In FY 2018, more than 20,000 Missourians registered to attend conferences, where university knowledge and research across disciplines was shared. <http://muconf.missouri.edu/>

Fire and Rescue Training Institute

MU Extension's Fire and Rescue Training Institute (MU FRTI) provides comprehensive continuing professional education and training to Missouri's fire service and emergency response personnel. The institute has a direct impact on the well-being and protection of Missouri's 29,000 firefighters and the 6 million citizens they serve. Courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation, as well as fires. In FY 2018, MU FRTI provided more than 11,000 hours of instruction to 13,494 fire and emergency responders. <https://www.mufrti.org>

Law Enforcement Training Institute (LETI)

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

Missouri Training Institute

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

MU Nursing Outreach

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

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

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

Veterinary Medical Extension and Continuing Education (VMECE)

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

Labor Education

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

FY 2018 Summary: Continuing Education Noncredit Activities

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

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

Educational Contacts — FY 2018

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

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

Howard County Extension Center Local Services

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

During the past year, the Extension Center handled **866 telephone calls** and **339 walk-in visitors** to connect people with the information and expertise they needed. Some of the services provided included:

- ◆ **26 soil tests** processed from farm fields, gardens and lawns
- ◆ **25 private pesticide applicator certifications or recertifications** were administered
- ◆ **More than 10,000 newsletters** mailed or emailed to individuals, families and farmers including: Ag Connection, 4-H and Livestock
- ◆ **19,389 Facebook** users were reached with **8,789 interactions**
- ◆ **136 news releases** from the University of Missouri with **28** from the Howard County Office were read by subscribers
- ◆ The **soil and hay probes** were rented out to producers more than **10 times**

The Howard County Commission provides salaries and benefits for one 35-hour per week administrative assistant, and 10 percent of one 20-hour per week 4-H youth associate, funding for office operations and mileage for regional faculty who conduct educational programs in the county.

The University of Missouri provides in-service education and training, computer equipment, technology support and salaries and benefits for nine faculty who serve Howard County, as well as one nutrition program associate and 90 percent of one part time 4-H youth associate in Howard County.

2018 Howard Council Financial Summary	
Income:	
Governmental Appropriations	\$30,999.96
Resales/Educational Services	\$40.00
Ultrasound Income	\$16,698.39
Council Ultrasound Income	\$1,384.85
Miscellaneous Income	\$295.78
Total Income	\$49,418.98
Expenses:	
Personnel: Salaries & Wages	\$18,007.50
Payroll Expenses	\$4,173.09
Non Payroll Salaries	\$1,030.41
Travel	\$1,894.53
Postage	\$468.69
Telephone Service	\$1,235.67
Advertising	\$436.32
Publishing/Printing	\$502.37
Reproduction/Copy Services	\$1,263.97
Supplies/Services	\$1,713.69
Professional Services	\$54.00
Insurance/Bond	\$434.73
Miscellaneous	\$634.19
Furniture/Equipment	\$147.89
Ultrasound	\$17,421.93
Total Expense	\$49,418.98

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

Find us online

Extension.missouri.edu

Extension.missouri.edu/howard

[Facebook.com/HoCoExtension/](https://www.facebook.com/HoCoExtension/)



Historical Photo Submissions of Agriculture in Howard County

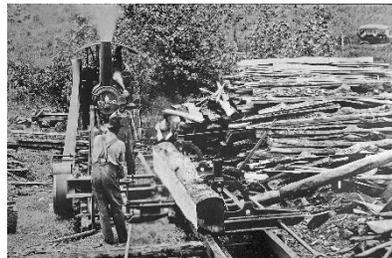
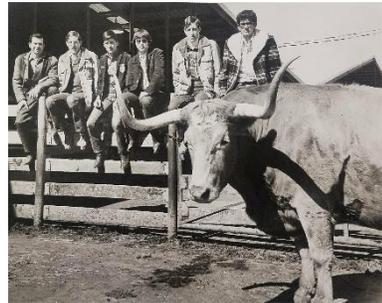


Photo submissions by: Barbara Alexander, Becky Callahan, Cathy Daniels, Clark Family, Conrow Family, Jean Lessly, Jim Steele, Megan Felten, and Tina Rice



University of Missouri Extension provides equal opportunity to all participants in extension programs and activities, and for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age, disability, or status as a protected veteran.