

UNIVERSITY OF MISSOURI EXTENSION

Cedar County

2017 ANNUAL REPORT

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WHO WE ARE

Cedar County MU Extension Center and its programs are funded by county, state and federal appropriations. Cedar County Commission as well as revenue generated from local programs provides the support for the Cedar County MU Extension. These funds are used to fund office space and expenses, support staff salary, 0.25 Youth Program Assistant Salary and travel expenses for staff and specialist that conduct educational programs in Cedar County. A special thank you, to the Cedar County Commission for their financial assistance.

Federal and State Funding provide salaries and benefits for one professional, one paraprofessional, and 0.25 youth program assistant staff members headquartered in Cedar County. These funding sources also provide in-service training expenses, including travel and lodging for staff, postage for staff communications, matching funds for computer equipment costs and maintenance, and benefits for county support staff.

<p>Cedar County Extension Council <u>Elected</u> Frank Anderson—Stockton Tom Bryant—Stockton Cory Dawes—Stockton Nedra Fox—Stockton Gary Glover—Fair Play Amy Hedrick—El Dorado Springs Kelly Hendricks—Jerico Springs Ryan Hubbard – El Dorado Springs Glenda Pate—Humansville Jim Phillips—Fair Play Joy Rutledge—Stockton Rachel Stauffer—El Dorado Springs</p> <p><u>Appointed</u> Marlon Collins—County Commissioner Jordan Richner—Farm Bureau Kelly Wrenn—City of Stockton Ben Francis—City of El Dorado Springs</p>	<p>Cedar County Faculty and Staff Patrick Davis Regional Livestock Specialist and County Program Director</p> <p>Heather Burns Office Support Staff</p> <p>Julie Spink Nutrition Program Associate</p> <p>Linda Heryford 4-H Youth Development Assistant</p>	<p>Staff serving Cedar County, (based in other counties) Pat Miller Regional Agronomy Specialist</p> <p>David Black Regional Family Financial Education Specialist</p> <p>Wesley Tucker Regional Agricultural Business Specialist</p> <p>Mary Sebade Regional Nutrition and Health Education Specialist</p> <p>Velynda Cameron Regional Youth Development Specialist</p> <p>Phyllis Behrens Regional Business Development Specialist with PTAC</p> <p>Kathryn Macomber Regional Community Development Specialist</p> <p>Bob Schultheis Regional Natural Resource Engineer Specialist</p> <p>Robert Balek Regional Horticulture Specialist</p>	<p>Cedar County Commissioners Marlon Collins Presiding Commissioner</p> <p>Don Boultinghouse Northern District Commissioner</p> <p>Robert Foster Southern District Commissioner</p> <p>State Legislator Mike Kelley State Representative 127th District</p> <p>Mike Stephens State Representative 128th District</p> <p>Warren Love State Representative 125th District</p> <p>Sandy Crawford State Senator 28th District</p> <p>About us Location: Cedar County Courthouse 113 South Street Stockton, Mo. 65785</p> <p>Hours: Mon – Fri 8:00 a. m. to 12:30 p. m. 1:00 p. m. to 4:30 p. m.</p> <p>Contact info: Phone: 417 – 276 – 3313 Email: cedarco@missouri.edu</p>
<p>2017 Cedar County University of Missouri Extension Council Operating Budget</p>			
Revenue	\$	Expense	\$
Beginning Balance	15,542.18	Secretary Salary	25,761.85
County Appropriations	43,230.00	Youth Program Asst.	4,460.27
Account Interest	40.00	Clerical Assistant	61.60
Donation	50.00	Council Paid Benefits	4,521.78
		Travel	2,600.00
		Postage	81.66
		Telephone	1,347.11
		Supplies	995.19
		Surety Bond	470.00
		Furniture/Equipment	216.00
		Advertising	180.18
		Uncategorized expense	140.00
		Other Services	52.17
Total Revenue	58,866.18	Total Expense	40,887.81
		Closing Balance	17,978.37



CEDAR COUNTY MU EXTENSION CENTER
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Website: extension.missouri.edu /cedar

December 31, 2017

Dear Cedar County Commissioners, Stakeholders and Friends,

Thank you for continuing to make University of Missouri Extension relevant and successful in providing educational programs for the citizens of Cedar County. This annual report outlines the success MU Extension has had in Cedar County during 2017.

The success of University of Missouri Extension in Cedar County depends upon the dedication and support of members of the County Extension Council. The council assists staff with planning and implementing programs by communicating the interests and concerns of local citizens. Programming efforts require the best efforts of our partnerships in the state to maximize and apply our resources where the greatest impact can be made.

We want to extend a special thank you to the Cedar County Commission for their continued support of the Cedar County MU Extension Center.

We would also like to thank all of our volunteers, partners and stakeholders who continue to support our efforts in extension.

When you support University of Missouri Extension, Cedar County benefits as well as the state of Missouri.

Sincerely,

Handwritten signature of Rachel Stauffer in black ink.

Rachel Stauffer
CEDAR COUNTY EXTENSION
COUNCIL SECRETARY

Handwritten signature of Patrick Davis in black ink.

Patrick Davis
REGIONAL LIVESTOCK SPECIALIST
CEDAR CPD

Handwritten signature of Kelly D. Hendricks in black ink.

Kelly Hendricks
CEDAR COUNTY EXTENSION
COUNCIL CHAIRWOMAN



VICE CHANCELLOR'S OFFICE
108 Whitten Hall
Columbia, MO 65211
PHONE: (573) 882-7477
FAX: (573) 882-1955

December 4, 2017

Dear County Commissioners and Friends of MU Extension:

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

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

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Marshall Stewart". The signature is written in a cursive, flowing style.

Marshall Stewart, Ed.D.

Vice Chancellor for Extension and Engagement

Ch



*Velynda Cameron
Youth Development
Specialist*

CEDAR COUNTY 4 – H CLUBS



Cedar County 4-H creates environments in which young people are valued, contributing members of their community. 4-H provides Cedar County youth with hands-on learning opportunities in a safe environment where they can experiment, innovate and think independently with the help of caring volunteers.



*Linda Heryford
4 – H Youth
Development
Assistant*

Number of Cedar County residents served

- 139 4—H Members
- 60 Trained Volunteers

Accomplishments

- Cedar County 4-H serves youth through 6 organized clubs. The youth of Cedar County have demonstrated learning through the following activities:
 - 35 Club Officers
 - 4 County Council Officers

Regional and State Events

- non—livestock projects submitted to Ozark Empire Fair
- non—livestock projects submitted to Missouri State Fair
- members competed at state shooting sports competition
- members competed at Regional Horse Bowl Contest
- members participated in the Missouri State Equine Tour – 2 Cedar County participants
- members participated in 4—H camp – 6 Cedar County participants
- Cedar County 4—Hers also participate in many local events such as leader training, Cedar County Youth Fair, Land O Lakes Youth Fair, and recognition banquet
- State Fair demonstrations

What action did they take?

- MU Extension 4-H connects 8,700 young people to University of Missouri campuses.

Missouri 4-H Members

- spend more of their leisure time than peers engaged in projects of interest anchored in science (Khan, 1989)
- three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008)
- 4—H youth are nearly twice as likely to expect to go to college (Lerner and Lerner, 2011)
- being on campus is a predictor of youth going onto higher education (Hoover, 2006).

How does this make Cedar County and Missouri Better?

Cedar County

- Youth who earn their bachelor's degree, increase annual earnings by \$2 million over their lifetime (NACUBO, 2012).
- If 50% of the Cedar County members participating in 4—H events on the MU Campus go onto earning their bachelors degree, 4-H would help young people earn \$143.7 million more of lifetime earnings

Statewide

Since 4—H members are more likely to go to college and enjoy

- Increased financial success
- Improve quality of life
- Improved health status (Porter, 2003)
- More likely to vote as adults
- More likely to contribute to their community (Lerner, 2009; Zaff et al, 2003)

RURAL YOUTH SAFETY WORKSHOP

Patrick Davis, Livestock Specialist

This program is done in partnership with Community Safety Net a national organization who gets donations from Cedar County businesses, organization and citizens to provide educational materials to youth on rural safety. These programs were done with the help of the El Dorado Springs High School Agricultural Students and school systems to educate 4th graders in the El Dorado Springs School system.



Number of Cedar County residents served

- 106 Youth
- 20 Volunteers

What did they learn?

- Youth volunteers were educated, then taught the youth on:
 - animal safety, personal protection equipment, pesticide safety, welding safety, water/dehydration/first aid and human safety, tractor safety, fire safety and ATV safety
- Youth received an education DVD and book that will educate them on other things related to safety

What action did they take?

- The kids took home a book, DVD, and knowledge gained to their parents and went through the information with their parents to improve understanding of rural safety

How does this make Cedar County and Missouri better?

Cedar County

- This developed relationships with local businesses and organizations to provide funding for books and DVDs for youth that were involved with the program
- Improved rural safety should lead to less injury related rural activities and less cost related to these problems

Statewide

- As these people are safer with rural activities throughout the state there should be less rural injuries and cost associated with injuries

MISSOURI SHOW – ME QUALITY ASSURANCE

Patrick Davis, Livestock Specialist

Velynda Cameron, Youth Development Specialist

This program is designed to provide education on best management practices to youth and their parents so that their meat and milk producing livestock projects are raised in a way that they are successful and at slaughter will be safe for human consumption.

Number of Cedar County residents served

- 26 adults
- 42 Youth

What did they learn?

- This program educates youth on proper care, and management of their youth livestock projects
- This education allows them to produce a healthy and safe meat or milk product for human consumption

What action did they take?

- Youth take a test that certifies them so that they are current in their 4—H livestock project
- Allows 4-H youth to exhibit their livestock at local, regional and state exhibitions

How does this work make Cedar County and Missouri better?

Cedar County

- Through education these youth are more likely to produce healthy animals and milk that when slaughtered and processed are safe for human consumption
- Increase perception that county youth livestock meat or milk products are high quality and safe for human consumption

Statewide

- This increases the perception that meat and milk from Missouri youth livestock projects are high quality and safe for human consumption

STAY STRONG, STAY HEALTHY

Mary Sebade, Nutrition and Health Education Specialist

Stay Strong, Stay Healthy is an eight-week program for middle-aged and older adults. The program's goal is to improve health and quality of life. Sessions meet 1 hour twice a week and include warm-up exercises, simple strengthening exercises, with or without weights, and cool-down stretches. Participants are urged to do the exercises on their own one other time during the week. Over the eight weeks, participants learn the exercises and begin to improve strength, flexibility, and balance. After eight weeks, participants are encouraged to continue this simple program at home or with a community group.



Number of Cedar County residents served

- 128 people

What did they learn?

Participants assessment showed:

- 75% of participants improved 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
- 75% of participants improved 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
- 50% of participants improved in the Back Scratch Test which assesses upper-body and shoulder flexibility needed for activities such as combing hair, dressing and reaching
- 75% of participants improved in the 8-Foot Up-&-Go Test which assesses the agility and balance needed for activities such as standing quickly from a seated position and walking
- 50% of participants improved in the Balance Assessments which indicates reduced risk of falling and continued independent living
- 50% of first time participants felt their health was better, reported feeling physically stronger, reported having more energy, reported less painful joints, and reported feeling more flexible
- 75% of first time participants reported sleeping better

What action did they take?

- Participants in the Stay Strong, Stay Healthy class have reported more movement in their joints, and greater flexibility.

How does this work make Cedar County and Missouri better?

Cedar County

- According to the Community Health Needs Assessment in Community Commons, Cedar County has been identified as suppressed in its consumption of fruits and vegetables. Under the category of obesity, 31.1% of adults aged 20 and older self-report that they have a Body Mass Index (BMI) greater than 30.0 (obese) in the report area. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.
- MU Extension provides information and opportunities for Cedar county residents to learn about nutrition and physical activity through classes, and presentations. The next step is committing to change.

Statewide

- In Missouri, as in many states, health varies from one region to another. Many American communities lack environments that could support healthy diets and regular physical activity. Healthy dietary and physical activity practices can lower the risk for heart disease, type 2 diabetes, and some cancers. Excess calorie intake and physical inactivity also, contribute to obesity. Among adults, the medical costs associated with obesity are an estimated \$147 billion.

DIABETES SELF-MANAGEMENT

Mary Sebade, Nutrition and Health Education Specialist

The Diabetes Self-Management Program (DBSM) provides participants with knowledge and skills necessary for proper Diabetes self-management. During six weekly, two and a half-hour long sessions, in community settings (e.g. senior centers, churches, libraries), participants and their family members learn management strategies for dealing with Diabetes. The series includes a strong focus on nutrition, the cornerstone of diabetes management, but also covers other self-management strategies to help individuals avoid short-term and long-term diabetes complications.



Number of Cedar County residents served

- 79 people

What did they learn?

assessment showed:

- 83% of participants reported that they are better prepared to care for themselves and their health; better prepared to work and communicate with their healthcare provider; able to manage their chronic conditions better; and their overall health has improved.

What action did they take?

- No follow has been done

How does this work make Cedar County and Missouri better?

Cedar County

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*Mary Sebade,
Nutrition and
Health Education
Specialist*

SMALL STEPS TO HEALTH AND WEALTH

The Small Steps to Health and Wealth program motivates participants to improve both their health and their finances. Participants are encouraged to set a health goal and/or wealth goal, and then take action to achieve their goals by identifying small progress steps. Participants discuss 20 similarities between health and personal finance issues and learn 10 suggested behavior change strategies. The program concludes with a discussion of seven key health and wealth success factors: attitude, automation, awareness/knowledge, control, environment, goals, and time.



*David Black,
Family Financial
Education
Specialist*

Number of Cedar County residents served

- 28 people

What did they learn?

- Individuals are more aware of their spending habits after completing the income and expense log
 - One person commented that he would have to do a bit more saving to replace his television set.

What action did they take?

- No follow has been done

How does this work make Cedar County and Missouri better?

Cedar County

- According to the Community Health Needs Assessment in Community Commons, Cedar County has been identified as suppressed in its consumption of fruits and vegetables. Under the category of obesity, 31.1% of adults aged 20 and older self-report that they have a Body Mass Index (BMI) greater than 30.0 (obese) in the report area. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.
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HOLIDAY FOOD PRESERVATION WORKSHOP

Mary Sebade, Nutrition and Health Education Specialist

Interest in home food preservation has increased and now is the perfect time to learn a new skill and make a holiday gift. MU Extension provides up-to-date, research-based procedural recommendations, tested recipes, and hands on workshops that assist the consumer in safely preserving produce and other products. Workshop will focus on boiling water canning basics, salsas, and sweet spreads perfect for that holiday gift giving.

Number of Cedar County residents served

- 4 people

What did they learn?

summaries showed:

- 100% of participants were confident in their ability to safely preserve foods at home.
- 100% of participants understood the importance of using research based recipes and guidelines to preserve food at home.
- 100% of participants will seek MU Extension resources in the future regarding food preservation
- 100% of participants were confident to share research-based food preservation recommendations with friends/family

What action did they take?

No follow has been done

How does this work make Cedar County and Missouri better?

- In Missouri, as in many states, health varies from one region to another. Many American communities lack environments that could support healthy diets and regular physical activity. Healthy dietary and physical activity practices can lower the risk for heart disease, type 2 diabetes, and some cancers. Excess calorie intake and physical inactivity also, contribute to obesity. Among adults, the medical costs associated with obesity are an estimated \$147 billion.
- According to the Community Health Needs Assessment in Community Commons, Cedar County has been identified as suppressed in its consumption of fruits and vegetables. Under the category of obesity, 31.1% of adults aged 20 and older self-report that they have a Body Mass Index (BMI) greater than 30.0 (obese) in the report area. Excess weight may indicate an unhealthy lifestyle and puts individuals at risk for further health issues.
- MU Extension provides information and opportunities for Cedar county residents to learn about nutrition and physical activity through classes, and presentations. The next step is committing to change.



FAMILY NUTRITION EDUCATION PROGRAM

Julie Spink, Nutrition Program Associate

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

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 addition to providing nutrition education, in mid-2017, FNEP began partnering with the Supplemental Nutrition Assistance Program (SNAP) Outreach. The NPAs are spending an average of 4 hours per week in providing information and assistance with SNAP applications.

In Cedar County, 616 Youth and 2,133 Adults contacts were made for a total of 2,749 contacts.

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

<u>Schools</u>	<u>Agencies</u>
El Dorado Springs Elementary	We Care Preschool DCC
El Dorado Springs Middle	El Dorado Springs Head Start (WCMCAA)
Stockton Elementary	Cedar County Public Library- El Dorado Springs
Stockton High School	Pathways Community Health
Stockton Middle School	Cedar County Health Department
	Korth Senior Center
	Church of Christ Food Pantry
	SAMA Food Pantry
	First Baptist Church

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

I recently saw one of my last year's teachers and she told me that one of her parents that had a sibling in the class this year asked when I was going to be teaching this year so that this child would start trying new things like the student I taught of hers last year. She said that he shocked her with some of the new things he would try because Mrs. Julie said so.

In summary, it has been a successful year in Cedar County for FNP. We look forward in 2018 to more programming opportunities and continued progress in helping to improve the lives of Missouri families.

SHEEP AND GOAT PRODUCTION WORKSHOP

Patrick Davis, Livestock Specialist

Nate Cahill, Ag Business Specialist

This program is to educate people interested in goat production or current goat producer about the economics related to goat production, as well as goat nutrition and management.



Number of Cedar County residents served

- 5 people

What did they learn?

Participants filled out the evaluation after the workshop showing a 20% improvement in knowledge on goat nutrition and management and some of the specific things they learned were

- nutritional requirements
- supplementation
- importance of closely monitoring nutrition
- learn more about percent of protein and how that plays out during digestion
- disease and parasite info
- feed management
- plan before putting ram in with does before you plan to market

Participants filled out the evaluation after the workshop showing a 40% improvement in knowledge on economics of goat production and some of the specific things they learned were

- marketing goats
- projected income
- cost/budget record keeping
- lost \$33 for an animal doing small scale goat production
- effects of planning and budgeting, options for marketing, market trends, and market timing, Plan! Plan! Plan!
- the rate of demand in the US

What action did they take?

In the evaluation after the workshop 60% of the participants said they would change their sheep and goat operation based on knowledge gained. Some of the changes they were planning to make are as follows:

- buy goats
- take a strong look at nutrition of goats I have and develop a marketing program for goats
- monitor nutrition better and increase sheep numbers
- breaking into the goat meat market after being in only the dairy goat market
- do not have goats at the time possible putting with beef cattle in the future
- record keeping more detailed, pasture rotation, feed management
- records
- keep better records

How does this work make Cedar County and Missouri better?

Cedar County

- Better management, and health of sheep and goat herd are factors that improve economic viability of sheep and goat producers and should increase county economy

Statewide

- Better management and health of county sheep and goat herds should lead to better sheep and goat herds throughout the state from the information and sheep and goats that are sold from Cedar County herds
- Better more profitable sheep and goat herds statewide should lead to improvement of economic viability of sheep and goat producers which should improve state economy

SHOW ME SELECT REPLACEMENT HEIFER PROGRAM

Patrick Davis, Livestock Specialist

Show—Me—Select Replacement Heifers Inc. is a total heifer development program designed to provide health and management technology to beef heifers. It is an added value approach that includes an opportunity to market heifers privately or through the annual sales. It also gives buyers a source of quality replacements.



Number of Cedar County residents served

- 4 people

What did they learn?

- two county producers in the program have learned how to develop heifers that will stay in herd and calve regularly
- one veterinarian is also learning valuable practices in health and management of developing heifers
- How the Show—Me—Select Heifer Program benefits producers and purchasers
- Reliable source of heifers to be put in local herds

What action did they take?

- Two county producers
 - increased the usage of AI, estrous synchronization, and collection of data on replacement heifers
 - Increase the usage of proven genetics in the heifers selling through the sale
- Based on the education one Cedar County person has chosen to purchase heifers at two regional sales.
 - This cattle producer is also putting heifers in the sale

How does this work make Cedar County and Missouri better?

Cedar County

- Two producers have sold 17 heifers in the spring sale with total gross sales of over \$26,000
- One Cedar County Cattle Producers in the last year have purchased 2 head of heifers through one sale resulting in \$3,800 purchases

Statewide

- Heifers produced and developed in Cedar County are sold at one sale yearly to farms throughout the state
- Improves longevity, quality and genetics of Missouri cow herd
- Increase profit potential of Missouri cow herd
- County sales and income from heifers results in strengthening the state economy

SOUTHWEST MISSOURI ALL BREEDS PERFORMANCE TESTED BULL SALE

Eldon Cole, Livestock Specialist

Andy McCorkill, Livestock Specialist

Patrick Davis, Livestock Specialist

Number of Cedar County residents served

- 5 people

What did they learn?

- Utilization of EPD's in bull selection to improve genetic deficiencies in there cow herd

What action did they take?

- Two Cedar County producers sold 3 bulls that averaged \$4,300.00
- Three Cedar County people were involved in buying bulls at the sales and the one of the bulls was the most expensive in that sale

How does this work make Cedar County and Missouri better?

Cedar County

- Cattle producers that attend can use the information when buying bulls and improving sire genetics
- Two Cedar County people sold bulls with a total gross of \$12,900
- Two cattle operations purchased bulls, which improves genetics of their operations resulting in improved profitability and a stronger economy

Statewide

- Missouri cattle producers make wiser genetic decisions in sire selection leading to improved calf crop and profitability
- Improved profitability leads to a stronger Missouri economy

SOUTHWEST MISSOURI MU EXTENSION BEEF CATTLE CONFERENCE

Patrick Davis, Livestock Specialist

Eldon Cole, Livestock Specialist

Andy McCorkill, Livestock Specialist



The Southwest Missouri MU Extension Beef Cattle Conference is designed to provide people the latest information on beef cattle production, marketing, economics, nutrition and forage utilization.

Number of Cedar County residents served

- 25 people

What did they learn?

Participants filled out an evaluation on topics discussed during the conference and the results looking at knowledge gained are as follows:

- first topic was Hay Storage and Feeding Management
 - 24% improvement in knowledge
 - Specific knowledge gained was as follows
 - value of checking moisture in the hay
 - cone feeder and percent hay loss
 - wasted hay and loss of nutrient value
 - need to work on storage
 - importance of hay quality storage
 - storing hay feeding process
 - negative effects of dirt on bales and temp of bale
- Second topic was Beef Cattle Reproduction and Show Me Select Heifer Program
 - 21% improvement in knowledge
 - Specific knowledge gained is as follows
 - AI programs
 - better heifers make a better herd
 - better return on calf production
 - how much conception rates lower with sexed semen
- Third topic was what opportunities are there for cattle producers in 2017
 - 20% improvement in knowledge
 - Specific knowledge gained is as follows
 - buy better stock
 - market risk
 - how to make a better return
 - look at hedging calves for fall
 - good time to buy cause of lower prices can build herd

What action did they take?

Participants were asked by evaluation if they plan to make a change in their farming or cattle operation based on knowledge gained and responses are as follows:

- 88% of the people that answered said yes they plan to make changes
- Potential changes are as follows
 - manage our hay production
 - manage better
 - better hay storage
 - hay
 - cattle genetics options
 - doing a better job storing hay and feeding hay
 - look at put option for calves this fall
 - be more careful of dirt on hay
 - be more selective on which cows to use sexed semen
 - discuss with father and customers to find best management practices for both
 - improve hay loss

How does this work make Cedar County and Missouri better?

Cedar County

- Attending this event provides cattle producer's knowledge to improve enterprise profitability resulting in stronger county economy

Statewide

- Education leading to better cattle management resulting in better reputation of Missouri cattle entering the market
- Better cattle management leads to improved cattle operation profitability, which improves Missouri state economy



Patrick Davis,
Livestock Specialist

MU EXTENSION BEEF COW – CALF OPERATION PRODUCTION WORKSHOP



Andy McCorkill,
Livestock Specialist

This workshop was designed to educate the public on various aspect of the cow – calf sector of the beef cattle industry.

Number of Cedar County residents served

- 11 adults
- 2 youth

What did they learn?

Participants filled out an evaluation on topics discussed during the conference and the results looking at knowledge gained are as follows:

- First topic was Cow – Calf Nutrition and Management
 - 21% improvement in knowledge gained
 - Specific knowledge gained
 - when to supplement cows
 - nutrition strategy
 - supplementing mineral
 - forage testing
- Second topic was selection and breeding for the cow herd
 - 18% improvement in knowledge gained
 - Specific knowledge gained
 - Importance of EPD's
 - EPD's

What action did they take?

Participants were asked by evaluation if they plan to make a change in their farming or cattle operation based on knowledge gained and responses are as follows:

- 72% of the people that answered said yes they plan to make changes
- Potential changes are as follows
 - AI and Stockpiling
 - test forage
 - nutrition strategy goals
 - bred heifers one month earlier, cull unbred
 - forage testing for pastures

How does this work make Cedar County and Missouri better?

Cedar County

- Attending this event provides cattle producer's knowledge to improve enterprise profitability resulting in stronger county economy

Statewide

- Education leading to better management of cattle results in Missouri cattle entering the market that strengthen the market reputation of Missouri cattle
- Better cattle management leads to improved cattle operation profitability which improves Missouri state economy

BULL BREEDING SOUNDNESS EXAM CLINICS

Patrick Davis, Livestock Specialist

Clinics are done in conjunction with a veterinarian to educate cattle producers on bull physical and reproductive soundness.

Number of Cedar County residents served

- 9 people

What did they learn?

Participants were educated on the breeding soundness exam and received handouts that educated them on foot scoring, genetic testing, upcoming bull sales and replacement heifer sales.

What action did they take?

Cattle producers tested bulls and those found unacceptable were retested in a few weeks to determine reproductive soundness

How does this work make Cedar County and Missouri better?

Cedar County

- Knowledge of bull reproductive soundness improves operation profitability resulting in stronger county economy

Statewide

- Stronger county economy results in a stronger state economy

MU EXTENSION STOCKER CATTLE OPERATION PRODUCTION WORKSHOP

Patrick Davis, Livestock Specialist

Andy McCorkill, Livestock Specialist



This workshop was designed to educate the public on various aspect of the stocker sector of the beef cattle industry.

Number of Cedar County residents served

- 2 people

What did they learn?

Participants filled out an evaluation on topics discussed during the conference and the results looking at knowledge gained are as follows:

- First topic was Stocker Cattle Nutrition and Management
 - 13% improvement in knowledge gained
- Second topic was stocker cattle selection, breeding, health, and marketing
 - 17% improvement in knowledge gained

What action did they take?

Participants were asked by evaluation if they plan to make a change in their farming or cattle operation based on knowledge gained and responses are as follows:

- 75% of the people that answered said yes they plan to make changes
- Potential changes are as follows
 - health issues
 - feed test

How does this work make Cedar County and Missouri better?

Cedar County

- Attending this event provides cattle producer's knowledge to improve enterprise profitability resulting in stronger county economy

Statewide

- Education leading to better management of cattle results in Missouri cattle entering the market that strengthen the market reputation of Missouri cattle
- Better cattle management leads to improved cattle operation profitability of which improves Missouri state economy



*Patrick Davis,
Livestock Specialist*

PARTNERS N PASTURE GROUP PASTURE WALK



*Pat Miller
Agronomy Specialist*

This workshop was designed to educate the public and provide hands on demonstration in regards to cattle grazing and pasture management.

Number of Cedar County residents served

- 15 people

What did they learn?

- By evaluation participant ranked knowledge gained after attending the class for the topics of grazing systems using multiple forage species and hair test for genetic testing for endophyte tolerance participant showed knowledge gain.

What action did they take?

- Participants were asked by evaluation if they heard information that will help you in your grazing/cattle operation and all participants that filled out the evaluation said yes. These are some of the applicable things they heard:
 - Grazing System
 - Pasture diversity Grazing
 - Different grasses
 - Johnson grass
 - Soil biology
 - Soil health (fungus, bacterial, Grassland vs Woods)
 - Food
 - Soil health

How does this work make Cedar County and Missouri better?

Cedar County

- Improved pasture management leading to more forage production leading to increasing livestock carrying capacity
- Increasing livestock carrying capacity improves farming income, county income and strengthens county economy

Statewide

- Stronger county economy will improve state economy

REGIONAL GRAZING SCHOOL

Patrick Davis, Livestock Specialist

Jill Scheidt, Agronomy Specialist

Terry Halleran, Agronomy Specialist

Brent Carpenter, Ag Business Specialist



This workshop is a five-class event where MU Extension partners with the Natural Resource Conservation Service and Soil Water Conservation District personnel, to educate the public on various aspects of intensive grazing management.

Number of Cedar County residents served

- 14 people

What did they learn?

Participants were educated on the following:

- Introduction to Management Intensive Grazing
- Grazers Arithmetic
- Cost Share
- Stockpiling/strip grazing fescue
- Layout and design of a grazing system
- Pasture allocation
- Fencing
- Water
- Forage Stand Evaluation
- Forage Quantity Estimate

What action did they take?

- Based on evaluation participant plan to
 - Use rotational grazing
 - Extend the grazing season
 - Better manage soil fertility
 - Interseed legumes and warm season forages
 - Add more livestock
 - Feed less harvested forages
 - Feed purchased supplements

How does this work make Cedar County and Missouri better?

Cedar County

- Improved pasture management leading to more forage production leading to increasing livestock carrying capacity
- Increasing livestock carrying capacity improves farming income, county income and strengthens county economy

Statewide

- Stronger county economy will improve state economy



Terry Halleran, Agronomy Specialist

SOIL FERTILITY AND PASTURE MANAGEMENT WORKSHOP



*Pat Miller
Agronomy Specialist*

This workshop is to educate people on soil fertility, nutrient cycling, pasture renovation, improvement and weed control.

Number of Cedar County residents served

- 14 people

What did they learn?

Participants after the workshop filled out an evaluation and on the topic of Soil Fertility and Nutrient cycling and participants show a 25% improvement in knowledge gained and specific knowledge gained is as follows

- lime, lime
- soil sampling, spraying, improvement of the soil
- the importance of maintaining soil condition
- soil sampling
- proper soil sampling use and management of pastures

Participants after the workshop filled out an evaluation on the topic of pasture renovation, improvements and weed control participants showed a 28% improvement in knowledge and specific knowledge gained as follows

- kill buckbrush before April 15th 25-30% legumes, lime chemical walking wire
- importance of variety of grasses
- fight profit killers, lime fields
- don't burn broomsedge, apply lime
- multiple grasses and legumes in the field

What action did they take?

All people that filled out this portion of the evaluation said they plan to make changes to their farming operation based on knowledge gained and here are the expected changes

- get out of the truck, kill buckbrush early, select correct herbicide, lime, and frost seed legumes
- liming and spraying
- lime, chemicals, time to spray
- increase fertilizer amount
- first item apply lime
- research soil conditions and experiment with different soil varieties
- soil test more regularly, improve fertility before interseeding more varieties of grass and legumes
- apply lime
- spray more grazing program
- soil sampling

How does this work make Cedar County and Missouri better?

Cedar County

- Improved pasture management leads to more forage production, leading to increased livestock carrying capacity
- Reducing brush and weeds resulting in less spread and less usage of pesticides for weed and brush control

Statewide

- Less usage of pesticides and herbicides for weed and brush control helps protect county and state natural environment
- Increased county revenues from increased carrying capacity and less pesticide and herbicide use results in improve county and state economy

PRIVATE PESTICIDE APPLICATORS TRAINING

Pat Miller, Agronomy Specialist

People who buy restricted use pesticides and herbicides are required to be current in this training to purchase these chemicals.



Number of Cedar County residents served

- 26 people

What did they learn?

- The ability to safely apply pesticides according to label recommendations
- The knowledge to correctly calibrate spray equipment
- The ability to measure and spray the correct rate of pesticide
- The ability to compare active ingredients to save money.
- The knowledge on what qualifies as personal protective equipment according to chemical labels
- The knowledge on what adjuvants are and when to use them

What action did they take?

- Participants met the legal requirements to obtain or renew their private pesticide applicators license.
- This will enable them to purchase restricted use chemicals to control pests in their farming operation.
- They also obtained updated information on new pesticides and their use to control current and emerging pests.

How does this work make Cedar County and Missouri better?

Cedar County

- Proper county identification and usage of pesticides
- Decrease pests
- Protects environment
- Prevents resistance
- Minimizes pesticide use and cost

Statewide

- Proper county control prevents pest spread to other regions of the state
- Proper county usage helps protect statewide usage right and environment

MISSOURI COMPLEX FENCE LAW WORKSHOP

Joe Koenen, Ag Business Specialist

Participants learned about the two different Missouri fence laws and what counties acknowledge 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 their county



Number of Cedar County residents served

- 19 people

What did they learn?

Based on the evaluations these are the short term learning outcomes by the participants:

- 88% now know their rights and responsibilities under the law
- 81% understand there is more than 1 fence law in Missouri
- 81% know where to find additional information and resources {MU Ext}

What action did they take?

- We have had various interaction with the public asking questions and wanting more information in topics this workshop covered
- Based on evaluation results, participants said they would recommend this workshop to other people interested in this topic

How does this work make Cedar County and Missouri better?

- Knowing which fence law is in effect in your 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 \$47,250 in legal fees.
- This helps Missouri livestock producers to be more profitable due to lower fencing costs of their own in addition to less legal time and litigation fees.

MU EXTENSION AGRICULTURE CONNECTION

Patrick Davis, Livestock Specialist

Andy McCorkill, Livestock Specialist

Jill Scheidt, Agronomy Specialist

Pat Miller, Agronomy Specialist

Terry Halleran, Agronomy Specialist

Doug Scotten, Ag Business Specialist

Jennifer Lutes, Ag Business Specialist

This is a radio program that allow MU Extension Specialist in the area of Agronomy, Livestock and Ag Business to educate the public on current issue with the goal of providing listeners information to improve their agricultural operations.



Number of Cedar County residents served

- 2300 people

What did they learn?

This weekly radio program educates listeners on current topics related to:

- Livestock
- Agronomy
- Ag Business

What action did they take?

Educated people will

- Contact the local extension office to gather more information on the topics covered
- Implement the knowledge gained on their agriculture operation

How does this work make Cedar County and Missouri better?

Cedar County

- Improvement of farming operations increases profit potential on these operations resulting in stronger agriculture and county economy

Statewide

- Those people will educate people outside the county resulting in improvement of agricultural operation profit potential statewide resulting in a stronger statewide agricultural economy

ESTATE AND SUCCESSION PLANNING WORKSHOP

Wesley Tucker, Ag Business Specialist

This workshop was to provide an introductory overview of estate and succession planning so that people could start thinking about what they would need to do in these areas.



Number of Cedar County residents served

- 18 people

What did they learn?

- Participants learned about various aspects of estate and succession planning

What action did they take?

- Participants will be able to utilize this information to make sure their affairs are in order so when they are not living anymore, their wish can be carried out and if the business is to be passed on to the next generation, that will take place properly

How does this work make Cedar County and Missouri better?

Cedar County

- Proper transfer of the business or assets to the next generation strengthens the financial standing of the next generation which continues to strengthen the county economy

Statewide

- Strong county economy helps to strengthen the state economics



*Phyllis Behrens, Business Development Specialist
PTAC Program*

MU EXTENSION BUSINESS DEVELOPMENT PROGRAMS



*Jacqueline Rasmussen,
Business Development Specialist*

Business Development Provider:

- Missouri Southern State University - Small Business & Technology Development Center
- Missouri Procurement Technical Assistance Center

Missouri's small businesses are an increasingly diverse group that continue to boost state productivity. There are 507,712 small businesses in Missouri. This is the equivalent of 97.5 percent of all Missouri businesses. Missouri small businesses employ more than 47 percent of the private workforce. In assisting the owners and managers of these businesses, MU Extension contributes to a county's economic development through growth in jobs, sales, innovation, technology development and commercialization, and community growth.

In Cedar County during fiscal year 2017, MU Extension Business Development Program (BDP) served ten people and their companies with business start-up and management counseling, training, and other assistance. In addition, entrepreneurs and business owners in Cedar County reported the following economic impact and activity resulting from services provided by the MU Extension BDP:

- Sales increase: \$390,000.00
- Government Contracts (three): \$167,228.00

MU Extension BDP serves people and their businesses statewide. The fiscal year 2017 total impact for all BDP business assistance was:

- New businesses: 198
- New jobs: 3,106
- Jobs retained: 3,675.5
- Sales increases: \$478,772,408.10
- Government contracts: \$403,359,341.00
- \$4,004,375.00 in SBIR/STTR or research proposals submitted with \$7,622,000.00 awards received
- Loans and investments in business: \$91,002,145.15
- Clients/companies receiving business counseling: 3,458
 - For Cedar County there was 10
- Business training attendees and conference participants: 10,685

BDP faculty and staff who contribute to these business successes have regional and statewide assignments. BDP serves all counties in the state.

The BDP Delivery Network includes Field Specialists headquartered at University of Missouri Extension centers; centers located on the University of Missouri campuses at Columbia, Kansas City, St. Louis and Rolla; and centers at most of the state universities across Missouri. The programs delivered through this network include:

- Missouri Small Business & Technology Development Centers
- Technology Development & Commercialization
- Economic Gardening
- International Trade Center
- Missouri Procurement Technical Assistance Centers
- Mid-America Trade Adjustment Assistance Center
- Environmental Assistance Center
- BDP Workforce Program

MU EXTENSION CONTINUING EDUCATION

UNIVERSITY OF MISSOURI (MU) CONFERENCE OFFICE

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

FIRE AND RESCUE TRAINING INSTITUTE (MU FRTI)

In FY 2017, MU FRTI celebrated its 85th anniversary of providing continuing professional education and training to Missouri's fire service and emergency response personnel. In addition to fire training, courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation. In FY 2017, MU FRTI trained 11,319 firefighters and emergency responders from 932 departments, organizations and agencies throughout all 114 Missouri counties. Twenty – four people from Cedar County used this service. mufirti.org

LAW ENFORCEMENT TRAINING INSTITUTE (LETI)

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

MISSOURI TRAINING INSTITUTE

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

MU NURSING OUTREACH

Nursing Outreach serves mainly rural health-care workers with high-quality, affordable continuing education programs using face-

to-face and online delivery methods; 92 percent live outside the St. Louis and Kansas City metro areas. In FY 2017, nurses from 77 Missouri counties and the city of St. Louis attended continuing education programs. Another 867 nurses and 1,986 health care professionals — including social workers, nursing home administrators and psychologists — were served through multidisciplinary programs. One person from Cedar County used this service. nursingoutreach.missouri.edu

CENTER FOR CONTINUING MEDICAL EDUCATION AND PHYSICIAN LIFELONG LEARNING (CME/PLL)

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

VETERINARY MEDICAL EXTENSION AND CONTINUING EDUCATION (VMECE)

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

LABOR EDUCATION

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

2018 IMPACT DATA

Cedar County



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

UM System Footprint in the County in 2017

Students

22 County students

- 20 Undergraduates
- 2 Graduates
- 17 Full-time students
- 5 Part-time students
- 12 Pell grant recipients (aid year '17)

Employees and retirees

5 people employed by UM

- 4 Campus
- 1 UM Health Care

5 UM retirees and beneficiaries

UM salary and retirement income: \$231,063

UM state tax revenue: \$6,746

UM federal tax revenue: \$33,571

Alumni

Selected school alumni

- 3 - Medicine
- 9 - Nursing
- 2 - Dentistry
- 4 - Pharmacy
- 5 - Veterinary Medicine
- 26 - Agriculture
- 9 - Engineering
- 9 - Law

Alumni teaching K-12

- 8 teachers
- 4% of all county teachers

Breakdown by campus

MU

- 13 students
- 91 alumni
- 4 employees

UMKC

- 2 students
- 24 alumni
- 0 employees

Missouri S&T

- 5 students
- 9 alumni
- 0 employees

UMSL

- 2 students
- 2 alumni
- 0 employees



County population: 13,892

Services provided

Health care

- 80 patients seen at UM Health Care, with \$1,318 of uncompensated care
- 9 patients seen at the UMKC School of Dentistry with an average of \$54 per patient in uncompensated care

Extension

- 19,209 total educational contacts from MU Extension to residents of county, including:
 - 690 contacts related to productive farming, better gardening, and managing natural resources
 - 18,091 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
 - 428 contacts related to starting businesses, developing community leaders, or renewing the local economy

Properties and offices

MU Extension in: Cedar County

2018 IMPACT DATA

Cedar County



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

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

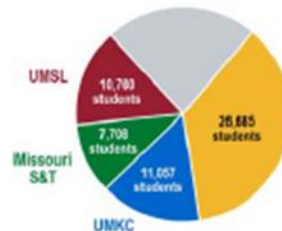


Agriculture and natural resource programs served **94,830** farmers and related businesses



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

Education highlights



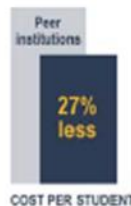
77% of the UM System's 72,877 students receive some financial aid totaling **\$910.6 million**.

- 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 • UMLS • UM System • UM Health Care • MU Extension US Census Bureau • US Dept. of Health and Human Services • National Science Foundation

