



UNIVERSITY OF MISSOURI EXTENSION

Shelby County

2021 ANNUAL REPORT



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Monday - Friday

8:00 AM to 4:00 PM

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<http://extension.missouri.edu/shelby>





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December 1, 2021

Dear county commissioners and friends of MU Extension and Engagement,

As we look forward to 2022, I want to take a moment to celebrate all that we have accomplished together this year. You, our closest partners, are key to improving Missourians' lives and opportunities.

You have been vital to the work that has already extended broadband access and workforce development strategies statewide. You have helped us connect with the right partners, working together toward meaningful outcomes that will help our communities thrive in our areas of greatest need around the economy, education and health.

During MU Extension and Engagement Week in October, we learned about some of the ways that MU's NextGen Precision Health Initiative will help Missouri improve statewide health care indicators from our current ranking of 38th in the nation to 25th.

COVID-19 has shown us that we must expand investment in our health care resources, knowledge and infrastructure. It has exposed the urgent need to make research and expertise available in communities and to empower individuals and providers to address every aspect of individuals' and communities' health needs — including the inequities of social determinants and their effects on people's health.

Our extension faculty is poised to help identify those needs and be the bridge to the health care providers and caregivers, the clinical trials and public health initiatives that can deliver improved healthcare access and outcomes in every county across our state.

I hope you see the impact of your hard work this past year throughout this county annual report. I thank you for your continuing support as we recommit ourselves to do what we do best: help communities thrive through civic engagement, community building and neighborliness. We look forward to continuing the programs, partnerships, and sharing of knowledge that foster kindness, caring, respect and deep connections in the year and decade to come.

Sincerely,

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

Marshall Stewart, EdD
Vice Chancellor, MU Extension and Engagement
Chief Engagement Officer, UM System



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Shelby County Commissioners

Glenn Eagan
Presiding Commissioner

Tom Shively
Eastern District Commissioner

Terry Mefford
Western District Commissioner



University of Missouri Extension
Shelby County
106 E. 3rd Street/ PO Box 230
Shelbyville, MO 63469
573-633-2640

January 2022

Shelby County Commission

Dear Commissioners:

The University of Missouri Extension council and staff would like to thank the Shelby County commissioners for their support and funding for programs during this past year. The council and staff remain committed to improving people's lives by helping them meet the opportunities and challenges of the 21st century with research-based education and information.

We salute volunteers, community leaders, council members, extension staff, community partners and others who gave time, talent and money to help improve the lives of Shelby County citizens.

This Annual Report of the University of Missouri Extension Council-Shelby County is a summary of educational programs and activities of University of Missouri Extension, a part of the University of Missouri System. The contents of this report are a summary of the highlights of our educational efforts during the past year in Shelby County. Specialists located in Shelby County MU are also assigned to cover and provide programming in their specific areas of expertise for additional counties in northeast Missouri. Our programs and services are available to all. If you have Internet access, please visit our Web site, at <http://extension.missouri.edu/shelby>, and learn more about how we can help you.

Kevin Kattelman
County Council Chair

Kathleen Wilham
County Council Secretary

Carrie Elsen
County Engagement Specialist
University of Missouri, Lincoln University, U.S. Department of Agriculture and Local
Extension Councils Cooperating
EQUAL OPPORTUNITY/ADA INSTITUTIONS



Who We Are...

Appropriations Budget

County Appropriations	\$38,500
Payroll Expense	23,200
Travel Expenses	1,600
Postage	940
Telephone	1,200
Lease Equipment	500
Supplies and Services	1,360
Utilities	4,200
Other Contract Services	5,000
Insurance	200
EC Election Expense	60
Repairs & Maintenance	240
Total Expense	\$38,500

Return on Investment

University System	100,000
Donations	14,000
Program Revenue	4,087

Local Support...

Did you know you can donate directly to Shelby County Extension with a gift to be used immediately or as an endowment contribution for long term efforts. Monies put into the endowment are left forever to earn interest with the county office benefiting each year. You can also direct your donation to a specific program such as 4-H or Master Gardeners.

Shelby County Faculty and Staff



Carrie Elsen
Nutrition and
Health Specialist



Becky Vanskike
Secretary

Shelby County Extension Council

Kevin Kattelman, Kathleen Wilham,
Debra Barrick, Troy Renner, Brandon Mason, Tom Plumb,
Terry Mefford, David Barton, Andrew Coon,
Gina Pollard, Maurico Toro, Laura Mason, Mark Wilson

Staff serving Shelby County

Michael Krauch
NE Regional Director

Charles Holland
Business Development Specialist

Daniel Mallory
Livestock Specialist

Jennifer Schutter
Horticulture Specialist

Mary Smyser
NE Region Food
Nutrition Program Coordinator

Valerie Tate
Agronomy Specialist

Karisha Devlin
Agriculture Business Specialist

Sarah Geist
Nutrition Program Associate

Dhruba Dhakal
Agronomy Specialist

Kent Shannon
Agricultural Engineering Specialist

Chris Kempke
Community Economic
Development Specialist



Agriculture and Environment

Northeast Region CARES Act Team (Coronavirus Aid, Relief and Economic Security) and the American Rescue Plan Act

*Darla Campbell, Joe Koenen, Mary Sobba, Jason Morris,
Penny Kittle, Lisa Doster, Charles Holland*

Unprecedented Funds from CARES and ARPA brought about many questions. MU Extension developed a northeast interdisciplinary regional team to address many related issues. They did this through a dozen presentations, development of internal and external resources, and consistent communication with communities and partners. They continued to work with Paycheck Protection clients and lenders as applications were calculated and forgiveness forms filed. The team worked extensively with local government, both county and city, to apply for funds through the Treasury and state. Team members assisted by contacting entities, filling out their application, applying for DUNS and SAM numbers, and substantiating the reporting from the 2020 CARES funds. The team kept up with timely developments and met with partner agencies such as the RPCs to coordinate efforts. Team members answered calls from around the region from individuals and agencies wanting details about eligible expenses. The team has researched potential grants that could be used in conjunction with ARPA funding. They worked with individuals and organizations such as food banks and farmers' markets on the Pandemic Relief and Safety grant.

Show-Me-Select Heifer Program



Daniel Mallory, Livestock Specialist

Nine beef producers in Shelby County were involved in the Show-Me-Select Heifer Program and two sales involved in the Show-Me-Select Heifer Program. Each producer spent 80 hours on this event. Producers learn how to produce high quality, easy calving heifers. Accurately learn the cost of producing a replacement heifer and the value they add to her by going through the SMS program. Producers sold heifers in the Show-Me-Select Heifer program at a value-added sale. Increasing profitability from quality livestock production has a positive impact on the economy of Shelby County.



Women In Ag

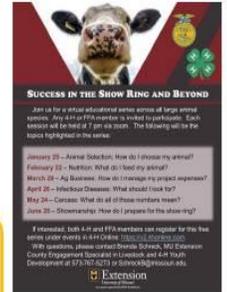
Brenda Schreck, Livestock & Youth Development Specialist



VIRTUAL YOUTH LIVESTOCK SERIES - SUCCESS IN THE SHOW RING AND BEYOND

This Zoom series consisted of six sessions lead by University of Missouri state specialists, MU Extension field faculty and other notable agriculture leaders. Any 4-H/FFA member or volunteer was welcome to attend this free series. Participants that attended all sessions and completed the online evaluations met the requirements for their Show Me Quality Assurance (SMQA) certification for the 2021 year.

Participants had the option of attending the sessions live via Zoom or watching the recordings on the county and state Extension webpages. The number of views for the six sessions ranged from 9 to 556 views.



Evaluation of Series

- Percent knowledge gained from all sessions ranged from 31-61%
- Percent information usefulness ranged from 90-100%
- 42 Lewis County youth participated in this virtual series



FOOD SAFETY MODERNIZATION ACT FOR LIVESTOCK FEED



Food Safety Modernization Act (FSMA) aims to ensure the United States food supply is safe, by shifting the focus from responding to preventing contamination in livestock foods.

MU Extension County Engagement Specialist in Livestock and Youth Development Brenda Schreck met with agriculture firms that provide and/or process livestock feed and discussed documentation for animal feed safety preventive controls on-site, and the firm's efforts for animal feed safety as required by FDA.

As FSMA plan updates are conducted, feed safety plan manuals aid firms in maintaining accurate documentation of preventive measures for livestock feed.

2 Lewis County firms receive FSMA plan support from MU specialist Brenda Schreck, FMSA Preventive Controls Qualified Individual.

Agriculture and Environment



Shelby County Master Gardener's

Jennifer Schutter,
Field Specialist in Horticulture



Master Gardeners

In 2021, Shelby County Master Gardeners completed 223 hours of service and continuing education. Of this, 152 were service hours to their communities with a value of \$4,338.08 using the value of \$28.54 for 2021 per volunteer hour from the Independent Sector. Master Gardeners are required to complete 6 hours per year of continuing education, which totaled 71 hours for the Shelby County Master Gardeners. Master Gardeners were involved in many projects including cleaning out and maintaining a garden bed at Long Branch State Park near Macon. Master Gardeners also assisted an elderly couple with lawn care and planting annual flowers; they provided maintenance throughout the summer in the garden beds in the healing garden at Samaritan Hospital in Macon; one Master Gardener gave a program to a local group on George Washington's gardens. One of these Shelby county Master Gardeners is the president of the Macon-Shelby Master Gardener chapter, and another Shelby county Master Gardener is the secretary of the chapter.

Garden Talk Newsletter

Fifty-three people from Shelby County receive the Garden Talk newsletter each month informing them of timely gardening tips and other important gardening information. The newsletter also includes upcoming horticulture programs and activities. Some residents receive it electronically.



Drip Irrigation/Cut flower Tour

On August 4th, 53 people attended a drip irrigation and cut flower tour at Bloom Cut Flower Farm near Huntsville. They learned how to install a drip system and the advantages of using one to increase profits. They learned what flowers are best for cut flower production and how they are grown. Three, Shelby County residents attended the tour.

Ag Newsletters

Monthly newsletter which features articles on emerging issues in livestock production, crop production and ag business and policy. This newsletter is postal mailed to clients farms/households in Shelby County. Participants are receiving the latest information on agricultural research and topics from the University of Missouri, Missouri Department of Agriculture and United States Department of Agriculture. Mailing printing, and postage costs are \$900 dollars a year for Shelby County Extension.



Agriculture Lenders' Seminars

By: Darla Campbell, Mary Sobba, Joe Koenen, Karisha Devlin, and Jason Morris

Eighty-two lenders and one producer from 23 Missouri counties and Illinois attended this year's seminars held in Mexico and Kirksville. Lenders learned about Crop and



Livestock Outlook, Macroeconomics, Rental Rates & Land Values, MU Budgets, Input Costs, Earned Income Tax Credit, American Rescue Plan Act, Short-term Operating Plan, and MASBDA Programs. Lenders in attendance managed over 5121 loans totaling more than \$29,588,000 in farm loans.

By attending University of Missouri's Agricultural Lenders' seminars, lenders are able to help their clients make better decisions based on risk management tools, budgets, and other resources provided. This benefits their portfolio of producers and landowners by an increased understanding of enterprise budgets, market outlook, and other decision influencing factors affecting families' and businesses' financial health. Five participants attended from Shelby County.

Youth and Family



Carrie Elsen,
County Engagement Specialist in
Nutrition and Health



2nd Annual Summer Lunch

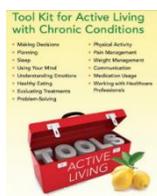


The summer lunch program was started in late May and concluded in Early August. The summer lunch program averaged 380 meals served on each distribution day totaling 56,642 meals for the community's kids. Each meal was valued at \$5.00, giving the community **\$283,210** back to the citizens of Shelby County. Shelby County's food handling sites were at the food bank and teen

center, and three food distribution sites located in Clarence at the CYMOs Building, Shelbina at the Shelbina Carnegie Public Library, and Shelbyville at the Teen Center. The entire summer lunch program consisted of 80 community volunteers throughout the summer. The summer lunch program was only able to be provided because of so many volunteers and organizations committed to serve the community.



Chronic Disease Self-Management



The Healthy Living with Chronic Diseases workshop was a six week and was offered in September and October 2021. The class was a highly interactive group program to help people gain self-confidence in their ability to control

their symptoms and learn how their health problems affect their lives. Topics included dealing with feelings of fear and isolation, appropriate exercise, medication use, nutrition, managing depression, how to evaluate new treatments, and communicating with family, friends and health team.



Sarah Beth Geist
Nutrition Program
Associate



The Supplemental Nutrition Assistance Program Education (SNAP-Education or SNAP-Ed) brought \$9,646,109 in federal funds to Missouri. The funds support engagement with 485,010 Supplemental Nutrition Assistance Program (SNAP) recipients and eligible citizens of Missouri. There were 321,372 direct educational contacts. This year we had 1,383,799 indirect educational contacts through newsletters, health fairs, food pantries, and the Show Me Nutrition helpline.

The Expanded Food and Nutrition Education Program (EFNEP) brought \$1,626,730 federal funds to Missouri. These funds were used to enroll 796 limited-resource families in nutrition education and meal preparation classes, representing 2,847 family members. Additionally, 2,469 youth were enrolled in EFNEP classes.



USDA Food Boxes

The USDA Farm to Families Food Boxes started due to the increased food insecurity need in Shelby County around COVID-19. The program was able to connect the Shelby County citizens and business leaders. Together the Shelby County Extension, Teen Center, Clarence community, and NECAC started to deliver 215 boxes to community citizens since 11-17-2020.

The program ended in May 2021 and an approximate box served: Clarence 500 boxes, Shelbyville 1080 boxes with a value of \$45 dollars each totaling **\$71,100** given back for community support. This event has been a magnificent outreach and engagement opportunity for all involved.

Stay Strong, Stay Healthy (SSSH)

SSSH aims to provide inactive middle-aged and older adults with access to a safe, structured and effective exercise program



capable of building muscle and increasing bone density, thus decreasing frailty, osteoporosis and the risk of falls. SSSH helps participants meet the Centers for Disease Control and Prevention's physical activity recommendations.

SSSH challenges participants through incremental increases in exercise volume and intensity. Led by a certified instructor, participants complete a warmup, a prescribed set of upper- and lower-body strengthening exercises and a cool-down at each class. A class was held at the Extension Office with 11 participants.

Youth and Family



Stephine Femrite,
*Youth Development
Specialist*

4-H



Shelby County 4-H is a community of 93 youth building life skills, contributing to their community, and becoming college and career ready. These youth are supported by over 50 volunteers. Volunteers are the core of the 4-H Program. They help to create, support, and deliver educational programs and experiences. Missouri 4-H volunteers report contributing on average 100 hours per year to the program. Valuing their time at \$27.20 per hour (Independent Sector, 2019), the contribution of Shelby County 4-H volunteers was worth more than \$136,000 in 2021. More importantly, these individuals serve as role models and mentors for youth.

Hatching Chicks in the Classroom



4-H Embryology teaches students about science and respect for life. Students hatch chicks in the classroom and witness the exciting miracle of life. Through this program, pre-incubated eggs are delivered to the school where they hatch about four days later.

During this time, students have the opportunity to learn the scientific process of embryology including incubation, preparing a brooder, hatching, identifying parts of an egg, development of chicks in the egg, and once they have hatched, handling chicks, and careers in the poultry industry. While students care for the eggs and chicks, they learn leadership, responsibility, sharing, decision making, critical thinking, and teamwork.



The 4-H Embryology Program gives children of all ages a hands-on experience in hatching chickens while developing personal confidence and leadership ability through embryology project activities. Within this program Shelby County students have the opportunity to develop and practice life skills including working on a team, identifying one's competencies, creative expression, and short-term goal setting. Shelby County had 140 pre-kindergartens through 8th-grade students and 6 classroom teachers.

Shelby County Fair



The Shelby County Fair looked a little different this year but was held July 5th-10th, 2021 at the Shelby County Fairgrounds. The fair consisted of 130 youth exhibitors. A total of 7092 combined points were awarded to the exhibitors. \$2836.80 in premiums was given out to Shelby County Youth Fair exhibitors. 4-H and FFA members participated in the 2021 Shelby County Fair. 4-H members participated in a variety of events during the fair including individual project judging, fashion review, livestock shows, and the exhibitor sale. Each exhibitor may put in 100 hours or more, preparing, practicing, helping others and exhibiting at the county fair.

Youth participants are rewarded by gaining confidence in showing livestock in front of crowds, speaking with a judge, and learning from winning or losing in the ring to improve for the next year.



Shelby County



University of Missouri System
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UM System Footprint in the county in 2021



FY21 county students

44 students

- 38 Undergraduates
- 6 Graduate and professional students
- 34 Full-time students
- 10 Part-time students



County employees and retirees

13 people employed by UM

- 7 Campuses
- 6 MU Health Care

9 UM retirees and beneficiaries

UM salary and retirement income: \$712,195

UM state tax revenue: \$23,288

UM federal tax revenue: \$96,324



County alumni

Selected school alumni

- 10 Nursing
- 9 Health Professions
- 5 Dentistry
- 2 Pharmacy
- 7 Veterinary Medicine
- 118 Agriculture
- 26 Engineering
- 6 Law

Alumni teaching K-12

- 28 teachers
- 33.3% of all district teachers



County breakdown

MU

- 38 students
- 257 alumni
- 7 employees

UMKC

- 2 students
- 10 alumni
- 0 employees

Missouri S&T

- 4 students
- 10 alumni
- 0 employees

UMSL

- 0 students
- 3 alumni
- 0 employees



County properties and offices

Ross-Jones Farm
MU Extension in: Shelby County



County population: 6,013



County services provided

Health care (FY21)

- 1,063 in-state patients seen at MU Health Care, with \$608,306 of uncompensated care
- MU Health Care's Missouri Telehealth Network recorded 200 visits to patients having a ZIP code associated with the county

Extension (2020)

- 4,688 Total educational contacts from MU Extension to residents of the county, including:
- 15 contacts related to productive farming, better gardening, and managing natural resources
- 4,310 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
- 363 contacts related to starting businesses, developing community leaders, or renewing the local economy

2021 UM Systemwide Impact Data Sheets

Shelby County



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UM System Statewide Footprint

Economic and Community Development Highlights

- In 2019, Business Development Specialists worked with small businesses and entrepreneurs statewide to create or retain 54,494 jobs.



For every dollar invested from 2015 to 2017, the MU Extension Business Development Program has returned \$120 in economic impact for its clients by increasing sales more than \$1.19 billion. For a total impact of \$2.7 billion, the program has generated more than 29,000 jobs and attracted nearly \$347 million in capital investments and \$1.17 billion in government contracts.

- Between FY15 and FY20, UM System brought Missouri more than \$1.27 billion in federal and private research funds, funded primarily from outside the state but spent within the state.



In FY21, UM System was issued 30 patents and filed 60 new U.S. patent applications.

- In FY21, the UM System awarded 722 design and construction project contracts throughout Missouri, for a total investment of \$132.0 million in the state.



In FY21, MU Health Care's Missouri Telehealth Network Show-Me ECHO Program participated in 24,400 hours of case-based discussions with 3,017 community providers located in underserved areas in the City of St. Louis and 111 of the 114 Missouri counties.

Education and Training Provided



50,604 police, fire fighters, and medical professionals attending continuing education (2020)



Agriculture and natural resource programs served 147,623 farmers and related businesses (2020)



295,444 youth and stakeholder educational contacts in 4-H clubs, schools, camps and other programs (2020)

Education Highlights

FY21 Financial Aid Awards

In FY21, 71.1% of the UM System's 78,208 students received financial aid totaling \$923 million



UM System's MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to 57 higher education institutions (250,187 students), 491 K-12 school districts (850,000 students) and 136 public libraries (serving nearly 3 million Missourians) in 2020.

- UM System awarded 50.4% of the 30,932 Bachelor's or higher degrees awarded by Missouri four-year public institutions in 2020-21.
- UM System awarded 39.2% of the 1,897 research doctorates and 26.4% of the 3,606 professional doctorates awarded by Missouri public and not-for-profit private institutions in 2020-21.
- In 2021, UM System's \$22.5 million in National Science Foundation (NSF) grants represented 84.1% of all NSF grants made to Missouri public colleges and universities.

Supporting the University of Missouri is an investment in the future of Missouri.

The university advances Missouri citizens and communities through its mission of teaching, research, public service, and economic development across our four campuses and University of Missouri Extension.

Prepared in December 2021, 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 (OSED) • Center for Applied Research and Engagement Systems (CARES) • MU • UMKC • Missouri S&T • UMSL • UM System • UM Health Care • MU Extension • US Census Bureau • US Dept. of Health and Human Services • National Science Foundation

