



UNIVERSITY OF MISSOURI EXTENSION

Shelby County

2022 ANNUAL REPORT



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December 2022

Dear county commissioners and friends of MU Extension and Engagement,

We have much to celebrate and anticipate in 2023. As you know, Chad Higgins is taking over from me as interim vice chancellor of extension and engagement and interim chief engagement officer for the UM System.

Chad believes in transformational leadership and change that will continue to advance the University of Missouri's land-grant mission. He has a strong team around him to support MU Extension in this time of transition.

Most important, Chad has **you** as key partners in championing our work to empower each county and community and to improve every Missourians' access to economic and educational opportunities and health and well-being.

We started our journey in 2016, reimagining what extension and engagement needed to be to meet communities' 21st century needs. Your partnership has led to a true renaissance of extension and engagement that will serve as the foundation for MU Extension's healthy future through this decade and beyond.

The challenges of the pandemic showed us how to be even more responsive and nimble. Thanks to the foresight of state leadership, we are also now in a much stronger budget position. We have the organizational, staffing and program structure in place to keep growing the value and impact of MU Extension and university engagement work at the local level.

We have made strides in each year's areas of focus: broadband, workforce development, community and mental health access and care, and now food security in this current year.

I hope you see throughout this county annual report the impact of your own partnership and hard work in these areas. I thank you for your continuing support as we recommit ourselves to do what we do best: Serve Missouri, Deliver Mizzou.

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 2023

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

Troy Renner
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	\$41,000
Payroll Expense	26,300
Travel Expenses	2000
Postage	1000
Telephone	1000
Lease Equipment	1670
Supplies and Services	800
Advertising	150
Utilities	4,200
Other Contract Services	3070
Insurance	500
EC Election Expense	60
Repairs & Maintenance	250
Total Expense	\$41,000

Shelby County Faculty and Staff

Carrie Elsen
Nutrition and Health
Specialist, CES



Jeremiah Terrell
Human Development &
Family Science
Specialist



Becky Vanskike
Secretary



Shelby County Extension Council

Kevin Kattelman, Kathleen Wilham, Pat Greenwell, Debra Barrick, Troy Renner, Brandon Mason, Tom Plumb, Terry Mefford, David Barton, Gina Pollard, Maurico Toro, Mark Wilson, Erin Maubach, and Kenny Wilson

Staff serving Shelby County

Michael Krauch
NE Regional Director
Amanda Lehenbauer
Nutrition Program Associate
Daniel Mallory & Brenda Shreck
Livestock Specialist
Justin Keay
Horticulture Specialist
Deann Turner
NE Region Food
Nutrition Program Coordinator

Karisha Devlin
Agriculture Business Specialist
Lyann Ritter
4H Youth Specialist
Nick Wesslak
Agronomy Specialist
Kent Shannon
Agricultural Engineering Specialist

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.



Agriculture and Environment

Farm Succession Planning Workshops

Mary Sobba, Agricultural Business Specialist

This past summer MU Extension partnered with Missouri Department of Agriculture (MDA) to offer succession planning for Missouri farm families. MDA received federal funding to perform mediation services for agricultural producers. Farm succession resources and to educate participants on the importance of the following four core concepts:

- Navigating family roles and business roles to prevent conflict
- Improving communication within the family farm business
- Sharing farm management decision-making with family during short-term crises
- Organizing a plan to transition farm ownership and management responsibilities to the next generation

Farm succession planning benefits individuals and families by increasing the understanding and knowledge, leading to improved communication, and eventually leading to transitioning farm businesses. Succession planning builds stronger families. Farm businesses that successfully transition to the next generation contribute to the local tax base and contribute to vibrant and strong rural economies. Succession planning benefits individuals and families by increasing the understanding and knowledge, leading to improved communication, and eventually leading to transitioning farm businesses. Succession planning builds stronger families. Farm businesses that successfully transition to the next generation contribute to the local tax base and contribute to vibrant and strong rural economies.

(Participants at the Macon workshop were from the following counties: Adair-1, Audrain-5, Boone-7, Knox-4, Macon-5, Pike-2, Randolph-4, Schuyler-5 and Shelby-1.)

Nick Wesslak

Agronomy Specialist



Nick Wesslak participated in and facilitated several activities regarding MU Integrated Pest Management efforts, both in the field, and on social media. There were collaborations between MU IPM and industry with a tar spot fungicide trial evaluation, as well as multiple tar spot spore sample collection sites.

These events helped to further educate the public on the new ever spreading Tar spot disease of corn. TikTok and YouTube videos were collected during MU IPM field efforts and have been successful in promoting MU IPM activities. Social media content

Nick contributed to MU IPM accounts generated 8,000 views, with 1315 views coming from TikTok and 6.7 thousand views coming from YouTube. The use of social media is helping to further inform the public about IPM and the work MU is performing in this field. Several other activities were conducted in the northeast region including corn and soybean disease scouting and diseased tissue collection for an MU graduate student research project. National Prediction Modeling Tool Initiative (NPMTI) early season residue sample collection and late season R5 disease ratings were conducted as well.

Two migratory insect trapping stations for the IPM Pest Management Network were set up in the northeast region. This network served as an alert system for northeast Missouri producers to help indicate what species of migratory pests should be scouted for in the field. Monitored insects included black cutworm, brown marmorated stink bug, corn earworm, fall armyworm, Japanese beetle, and true armyworm. Sample collections of suspected herbicide-resistant waterhemp populations were conducted in the region. Soybean cyst nematode sampling activities occurred as well.

Two MU Certified Strip Trial soybean fungicide trials were held in the region, as well as two nitrogen trials and one multiyear cover crop trial was established in 2022 for the 2023 season. Work on a long-term MU Certified Strip Trial cover crop trial that was previously established was also continued in the region. Cover crop field research collaborations occurred between MU Extension, several other universities, and the USDA at multiple locations throughout the region as well. One MU Extension IPM Disease Scouting School was held in the region covering an overview of the Missouri Strip Trial program and foliar fungicide trial data collected from 2018 to 2021, hands on scouting for soybean diseases, discussion on other pressing disease concerns, and resources for weed identification and herbicide injury.

One take away from the scouting school was how much the producer appreciates and wants youth education regarding agriculture, which is a sentiment that is shared with the county councils. Nick conducted 142 individual consultations in the region, most of which focused on forage and row crops. He was also involved in the writing and editing of the Northeast Missouri Ag Connection Newsletter.

Agriculture and Environment

Shelby County Master Gardeners

Jennifer Schutter & Justin Keay *Specialists in Horticulture*

The Macon-Shelby Master Gardener chapter, with 15 active members, meets each month at the Macon County Extension Center. The president and secretary of the chapter are Shelby county residents. The chapter secretary is also serving as the Missouri Master Gardener Association secretary for 2022-2023.

In 2022, Macon-Shelby Master Gardeners completed 589.5 hours as a chapter. Shelby County Master Gardeners contributed 284.5 volunteer hours. Of this, 226.75 were service hours to their communities with a value of \$6,791.16 using the value of \$29.95 for 2022 per volunteer hour from the Independent Sector. Master Gardeners are required to complete 6 hours per year of continuing education, which totaled 57.75 hours for Master Gardeners from Shelby County.

The Shelby county Master Gardeners were involved in many projects including maintaining the Healing Gardens at Samaritan Hospital in Macon. The gardens provide much needed and appreciated respite for healthcare workers, patients, and their families, and provide space for outdoor physical therapy. Master Gardeners plant, water, weed, mulch, deadhead plants in the healing garden all through the growing season.

The Shelby County Master Gardeners maintained native plant beds at Long Branch State Park near Macon; members of the Macon-Shelby Chapter maintained and planted beds at the post office in Macon, assisted elderly gardeners with their lawns and landscapes, maintained beds at local churches, and much more. Two of the Shelby county Master Gardeners attended the Missouri State Master Gardener Conference in Jefferson City in September.

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.



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

Darla Campbell, Mary Sobba, Joe Koenen, Karisha Devlin,

Eighty lenders from 23 Missouri counties 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, Renewable Energy, FSA, and MASBDA Programs. Lenders in attendance managed over 4271 farm loans totaling more than \$295,244,000.

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.

(Adair -4, Audrain-7, Boone-12, Callaway-6, Chariton-1, Clark-3, Cole-2, Knox-2, Lewis-1, Linn-2, Macon-3, Marion-4, Monroe-10, Pike-3, Putnam-2, Ralls-2, Randolph-4, St. Charles-1, St. Louis-1, Schuyler-3, Scotland-2, Shelby-3, and Sullivan-2)



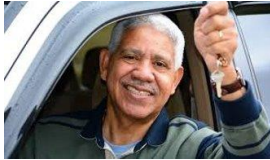
Youth and Family



Carrie Elsen,
County Engagement Specialist in
Nutrition and Health

Summer Lunch Program

Shelby County Summer Lunches were held in Shelbina, MO, and Clarence, MO. The free Summer Lunch Program started on June 6, 2022. Free lunch for ages 0-18. Locations Clarence City Hall Monday and Fridays and Shelbina Carnegie Library Wed., Thurs., Fri. 11-11:30 a.m. with half-hour activities after lunch. Sponsored by Douglass Community Center, MU Extension, and USDA. Shelby County Summer Lunch Program was completed early this year because the sponsor site ended the program early and received a \$5,000 Grant from No Hungry Kids.



Keep Your Keys

Keep Your Keys presentation is an 1 hour long and presented in two areas in Shelby County. It was presented at the Shelbina Senior citizens group on 12-1 and 11 were in attendance, and Shelby County Extension on 10-17 with 2 attending. 100% felt the presentation was informative, and the vast majority felt better prepared to face driving retirement. One rated their driving as “fair” and felt they should consider driving retirement. Most felt they had options for transportation.



Stay Strong, Stay Healthy (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 Carrie Elsen, participants complete a warmup, a prescribed set of upper- and lower-body strengthening exercises and a cool-down at each class. Participants are made to feel comfortable regardless of their current fitness level so they can safely participate and gradually build the strength beneficial to health. This class was offered in Clarence, MO from 4/18/2022 - 6/8/2022 with 2 participants. Participants stated, “**legs are stronger, hips and balance are better, it has helped with sciatic back pain and with over all energy.**”



Jeremiah Terrell M Ed.
Specialist in Human Development Family Science

PROGRAM: BUILDING STRONG FAMILIES

The Building Strong Families: Challenges and Choices program helps families find their strengths, build on those strengths, and learn skills to create stronger families, improve relationships, and increase positive communication. This program had 36 contacts in Shelby County and was done in partnership with 41st Circuit Children’s Division.

Participants reported the following after attending:

- I learned how to take more time with each individual child.
- I realized that each member of my family has a role and responsibility and bring value to the family.
- I learned about how to manage my stress level and how to have a family council.
- I will organize my bills, and I will spend more time with my family.

Youth and Family

Carrie Elsen (continued)

Community Garden

MU Extension is leading the way with community gardening by engaging the community in healthy eating and physical activity while focusing on community activities such as nutrition education, food distribution, and even taste tests. Additionally, research shows community gardens increase socialization and cooperation among neighbors within communities. Together with Shelby County Extension Council, Macon Electric Cooperative, North Shelby FFA members, and community partners made these four raised garden beds available for the community. The raised bed gardens are tended this summer by Miley Bender and Evie Jones, North Shelby FFA members. The gardens produce includes peppers, cucumbers, herbs, tomatoes, and romaine lettuce for anyone to take and enjoy. The Community Garden has received \$3,500 in grant funding from the partnership of the University of Missouri Extension and Missouri Department of Social Services through funding from the Administration for Children and Families (ACF) of the United States (U.S.) Department of Health and Human Services (HHS). The funding was given to support the continued gardening project and equipment received was gardening tools, rock, and a hydrant.



Freezer Meal Solutions Pilot

Shelbina, MO Class: The Freezer Meal Solutions Class started on April 6 until May 12 in Shelbina, MO, at the Shelbina Methodist Church from 5:30 pm to 7:30 pm. I had 15 individuals participating in the class from Macon and Shelby Counties. I had a co-teacher, Jennifer Eldridge Houser, CES in Nutrition in Health Education, driving from Knox County, MO. Funds were obtained by Mark Twain Solid Waste Management District mini grant for \$3,500 to pilot the freezer meal curriculum. Shelbina had a total of 7.56 lbs of food composted from the course.

Deann Turner
NE Regional Nutrition
Program Coordinator



Family Nutrition Education Programs Annual Report for Shelby County

SNAP-Ed Public Value Statement 2022

The Supplemental Nutrition Assistance Program Education (SNAP-Education or SNAP-Ed) brought \$10,315,347 in federal funds to Missouri. The funds support engagement with 470,352 Supplemental Nutrition Assistance Program (SNAP) recipients and eligible citizens of Missouri. There were 317,179 direct educational contacts. This year we had 2,410,436 indirect educational contacts through newsletters, health fairs, food pantries, and the Show Me Nutrition helpline.

57 direct and indirect contacts were made in Shelby County. Participants in SNAP-Ed learn the importance of making healthier meals and snack choices, eating breakfast more often, are more willing to try new foods, increase their physical activity, and make healthier food choices. Those who practice healthy eating and are physically active are more likely to contribute to a healthy labor force and enjoy a high quality of life throughout the lifespan. This vital programming effort also reduces healthcare costs over the participant's lifetime, saving taxpayer money in reduced public healthcare benefits and insurance premiums.

In addition to the numbers, reported staff shared the below success story:

Deann Turner, FNEP Program manager worked with Carrie Elsen, HES Specialist to provide educational programs for Early Childhood parents and children in an evening program. Organizations from the county also provided educational booths for parents and students.

Students could work with Carrie to create garden pot and learn about plants and what seeds need to grow. They could also visit Deann to learning about trying vegetables grown in the garden like spinach and carrots.

Recently Amanda Lehenbauer was hired to cover Shelby County. She looks forward to visiting the area soon.

Youth and Family



Lyann Ritter
4H Youth Specialist

A community of 180 youth building life skills, contributing to their community and becoming college and career ready.

12 in every 100 Shelby County youth under the age of eighteen participated in a MU Extension 4-H Youth Development program in 2022.

4-H Members

- There were 80 members in the traditional club program in Shelby County during the 2021-2022 4-H Year.
- All 80 youth were engaged in science-related projects and experiences.
- Collectively youth participated in 800 hours of community club work in Linn County.
- Over 20 hours of community service projects were completed by 4-H members and volunteers during the 2021-2022 4-H Year.

Shelby County served youth through 4 community clubs offering long-term educational experiences in which members learn life skills such as decision-making, public speaking, and working with others.

4-H members have demonstrated learning through the following activities:

- 306 exhibits at the 2022 Shelby County Fair from 58 4-H members and 65 FFA members, who are also supported through youth programming.
- 507 meals were donated in Shelby County through the 4-H Feeding Missouri Initiative in 2022.
- Over 25 youth participated in the Community Service Day cleaning up and putting new rubber mulch down at Kessler Park in Shelbyville.

4-H members learn under the guidance of adult volunteers who teach projects ranging from cake decorating and photography to animal science and healthy living. Clubs involve youth and teens in community service, leadership opportunities, and educational trips. 4-H project work and related educational experiences help youth explore citizenship, communication, and leadership interests.

Shelby County members enrolled in a combined total of 334 projects in 2022. The top project areas included:

- Arts and Crafts
- Clover Kids
- Photography
- Woodworking
- Welding
- Swine
- Cake Decorating
- Country Cured Hams/Bacon
- Foods
- Meat Goats
- Sheep
- Swine

Impacts of 4-H Programming

- 4-H members are twice as likely to go to college compared to their non-4-H peers and they tend to pursue careers in STEM fields (Lerner & Lerner, 2011).
- 4-H also prepares youth for the workplace. Youth must be prepared to live and work in a world we cannot completely envision- competing for jobs that do not yet exist, using technologies that have yet to be identified. 4-H is the only youth development program with direct access to technological advances in agriculture, life sciences, and social sciences from the university system. This brings relevant science content and hands-on learning that helps youth thrive (Arnold, Bourdeau, & Nott, 2013).
- Youth who earn a bachelor's degree increase their annual earnings by \$2 million over their lifetime. (U.S. News and World Report, 2011) If 50% of the Shelby County youth participating in 4-H events on a college campus receive a Bachelor's degree, 4-H would help young people acquire \$1,000,000 more in lifetime earnings.

4-H Volunteers

- There were 8 screened and oriented adult volunteers supporting the development of youth in the Shelby County 4-H program in 2022.
- Volunteers contributed 800 hours to the Shelby County 4-H program valued at \$23,960

Volunteers participate in development opportunities like project leader training and club leader summits, in addition to ongoing support from MU Extension youth faculty and staff gaining knowledge in how to offer a valuable learning experience for the youth they are working with while

Youth and Family



maintaining a safe, supportive environment. Volunteers create, support, and are a vital part of the 4-H community. Dedicated volunteers help to organize club meetings, fundraisers and events. They also provide learning opportunities for youth in their projects, teaching life skills and instilling qualities of character like respect and responsibility in members. Adult volunteers serve as mentors for our youth, helping them transition into caring, healthy adults who contribute back to their communities, which is priceless.

4-H School Enrichment- Embryology

- There were 100 students from 8 classrooms who participated in the Hatching Chicks in the Classroom program in 2022.
- Students participated in over 100 hours of learning with the “Chick It Out” program.

During the Embryology program, students learn about the 21-day development occurring within a fertilized, incubated egg that can result in the hatching of a chick. Students identify the parts of an egg and discover what each part provides for the developing chick. Students learn how to tell if an egg is raw or boiled and explore the strength of the egg’s shell providing protection to the developing chicks. Students review the necessity of hand washing due to potential contamination caused by salmonella in poultry and poultry products. Students often gain experience with death and disabilities. Throughout the experience, students are charged with rotating the eggs three times a day and are responsible for checking to make sure the incubator has water and is maintaining the correct temperature. Once the chicks hatch, the students care for them, providing feed, water, warmth, and a calm environment.

Impacts of Programming

Students practice life skills including decision-making and responsibility, helping them to develop qualities that will shape their development into adults. Students are provided with the opportunity for a practical experience that connects with the core subjects of communication arts, math, science, and health. Youth with hands-on experience with science are more likely to pursue science-related careers, which are critical to our county, state, national, and global economy. Students are conscious of the need to practice proper hand-washing techniques to prevent the spread of illness and disease. Students also learn compassion and develop an understanding of how to accept individuals with disabilities, as well as how disabilities can be compensated for.

Youth Farrowing Clinic

- There were 4 youth in Shelby County who participated Farrowing Clinic
- Youth participated in a collective of 12 hours of learning through the Farrowing Clinic

The farrowing clinic held in Shelby County, at the Shelby County Extension Office, was very successful at being educational for our attendees.

- Semen handling
- -Semen evaluation

Impacts of Programming

Youth gained knowledge of:

- Female reproduction
- Ovulation
- Heat detection
- Artificial insemination
- Gestation
- Farrowing
- -pregnant tract
- Piglet processing
- Male reproduction
- Semen collection

Resources

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

Independent Sector (2022). Value of Volunteer Time. Retrieved from: <https://independentsector.org/resource/value-of-volunteer-time/>

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

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

Shelby County



University of Missouri System
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UM System Footprint in the county in 2022



FY22 county students

49 students

- 41 Undergraduates
- 8 Graduate and professional students
- 30 Full-time students
- 19 Part-time students
- 11 Pell grant recipients (aid year 2022)



County employees and retirees

12 people employed by UM

- 6 Campuses
- 6 MU Health Care

11 UM retirees and beneficiaries
UM salary and retirement income: \$596,955
UM state tax revenue: \$18,964
UM federal tax revenue: \$71,723



County alumni

Selected school alumni

- 13 Nursing
- 16 Health Professions
- 5 Dentistry
- 2 Pharmacy
- 7 Veterinary Medicine
- 124 Agriculture
- 29 Engineering
- 6 Law

Alumni teaching K-12

- 28 teachers
- 32.9% of all district teachers



County breakdown

MU

- 41 students
- 258 alumni
- 6 employees

UMKC

- 1 student
- 11 alumni
- 0 employees

Missouri S&T

- 4 students
- 12 alumni
- 0 employees

UMSL

- 3 students
- 6 alumni
- 0 employees



County properties and offices

Ross-Jones Farm
MU Extension in: Shelby County



County population: 5,975



County services provided

Health care (FY22)

- 1,050 in-state patients seen at MU Health Care, with \$404,124 of uncompensated care
- 1 in-state patient seen at UMKC School of Dentistry with a statewide average of \$55.60 per patient in uncompensated care
- MU Health Care's Missouri Telehealth Network recorded 160 visits to 96 patients having ZIP codes associated with the county

Extension (2021)

- 372 Total educational contacts from MU Extension to residents of the county, including:
- 18 contacts related to productive farming, better gardening, and managing natural resources
- 354 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development

2023 UM Systemwide Impact Data Sheets

Shelby County



University of Missouri System
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UM System Statewide Footprint

Economic and Community Development Highlights

- In 2020, Business Development Specialists worked with small businesses and entrepreneurs statewide to create or retain 60,569 jobs.

\$3.1
billion

For every dollar invested from 2019 to 2021, the MU Extension Business Development Program has returned \$133 in economic impact for its clients by increasing sales more than \$1.6 billion. For a total impact of \$3.1 billion, the program has generated more than 37,000 jobs and attracted nearly \$451 million in capital investments and \$1.5 billion in government contracts.

- Between FY16 and FY21, UM System brought Missouri more than \$1.36 billion in federal and private research funds, funded primarily from outside the state, but spent within the state.



In FY22, UM System was issued 31 patents and filed 63 new U.S. patent applications.

- In FY22, the UM System awarded 504 design and construction project contracts throughout Missouri, for a total investment of \$132.1 million in the state.



In FY22, to improve access to medical and health related services, MU Health Care's Missouri Telehealth Network's Show-Me ECHO program provided 22,638 hrs of case-based instruction to 2,778 learners located in 109 of 114 Missouri counties and the city of St. Louis.

Education and Training Provided



50,837 police, fire fighters, and medical professionals attending continuing



Agriculture and natural resource programs served 101,822 farmers and

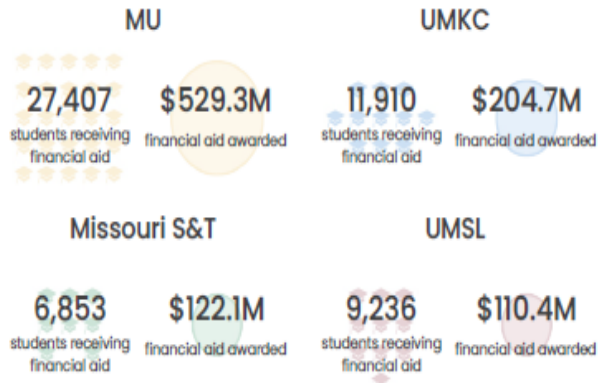


226,239 youth and stakeholder educational contacts in 4-H clubs, schools,

Education Highlights

FY22 Financial Aid Awards

In FY22, 67.6% of the UM System's 82,014 students received financial aid totaling \$966.5 million



UM System's MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to 58 higher education institutions (239,000 students), 487 K-12 school districts (827,000 students) and 135 public libraries (serving nearly 3 million Missourians) in 2021.

- UM System awarded 51.5% of the 29,448 Bachelor's or higher degrees awarded by Missouri four-year public institutions in 2021-22.
- UM System awarded 38.5% of the 1,856 research doctorates and 26.8% of the 3,662 professional doctorates awarded by Missouri public and not-for-profit private institutions in 2021-22.
- In FY22, UM System's \$42.0 million in National Science Foundation (NSF) grants represented 90.5% of all NSF grants made to Missouri public colleges and universities.



SHELBY COUNTY YOUTH FAIR



Shelby County Missouri State Fair Farm Family
Jay and Michelle Collins Family