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December 2023

Dear county commissioners and friends of MU Extension and Engagement,

Thank you for your important partnership with the University of Missouri Extension this past year.

I want to highlight three areas that address needs you helped us identify.

You may recall that the FY 23 state budget provided a one-time \$5 million infusion to MU Extension for growth. Of that, we allocated about \$3 million for field faculty in the areas of agriculture, 4-H, health/human development and business and community development.

Through a dedicated hiring effort, and thanks to that allocation, we have hired 168 new employees since November 2022. That includes 72 academic/faculty members, most of whom are field specialists in a priority area noted above, and 96 staff members (e.g., office administrators, youth and food and nutrition associates, etc.).

We also returned more faculty to local program delivery that best serves your county's needs, while preserving the partnership and relationship building work you value. Our extension and engagement specialists focus full-time on that work as they serve their assigned multi-county groups. Currently, 19 have been hired, with two more in the pipeline.

Finally, we are prioritizing our work with county extension councils. In the new role of partnership and council development director, Lorin Fahrmeier focuses on strengthening council representation and governance. This role will build stronger links with regional, educational and campus leadership to better identify and address local priorities.

At the UM System level, our engagement work across four universities and with leaders across the state makes a difference in areas of greatest need: broadband, workforce development, health access, food security and healthy futures for our youth.

Your county annual report shows what we are accomplishing together as we Serve Missouri and Deliver Mizzou. We look forward to strengthening that partnership with county commissioners and community stakeholders in the coming year.

Sincerely,

Chal Hijs

Chad Higgins, PhD Interim Vice Chancellor, MU Extension and Engagement Chief Engagement Officer, UM System

Who we are

Faculty and staff



Top Row: Fred Smith, Alex Heussner, Jessica Trussell, Katie Neuner, Lori Crawford

Bottom Row: Kathi Mecham, Chelsea Corkins, Sue Robison, Carla Wayland White

Lori Crawford Office Manager

Chelsea Corkins Extension Engagement Specialist

Carla Wayland White Nutrition Program Associate

Alex Heussner Youth Program Associate

Fred Smith 4-H Youth Development Specialist

Heather Conrow Livestock Specialist

Jim Crawford Agri-Systems Technology Specialist

Kathi Mecham Commercial Horticulture Specialist

Katie Neuner Agriculture Business Specialist

Sue Robison Nutrition and Health Specialist

Jessica Trussell Human Development Specialist

Valerie Tate Agronomy Specialist

Council members

Chair - Cheri Kincade Vice-Chair - Joe Don McGaugh - Appointed Secretary - Barb Lyon - Appointed **Treasurer - Samuel Kruse** Members: **Chevenne Baxter Becky Burger** Christy Crawford Peggy Glover Zach Grossman-Appointed **Beverly Hilton** Sue Lightfoot-Horine Christy Isaacs **Cheryl Johnson** Tiffany McMullin Candy Schlueter **Everette Shields-Appointed** Missy Woolridge



Carroll County Extension Council members being sworn in at a council meeting

County commissioners

Stan Falke Presiding Commissioner

Everett Shields 1st District Associate Commissioner

David Martin 2nd District Associate Commissioner

2023 Appropriations budget

Income

| 24,500.00 |
|-----------|
| 5,500.00 |
| 48,444.57 |
| 3,105.00 |
| 1,147.95 |
| 1,165.00 |
| 1,389.18 |
| 85,251.70 |
| |

Expenses

Carroll County Highlights & Partners

- County services provided included 1,719 total educational contacts from MU Extension to residents in Carroll County included:
 - 590 contacts related to productive farming, better gardening, and managing natural resources.
 - 1,129 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development.
- MU Extension faculty, staff, Extension Council members, and volunteers worked to spread knowledge and resources throughout Carroll County in 2023 including:
 - First Fridays in Carrollton, Norborne Kite Festival, Norborne Soybean Festival, & Local Kiwanis, Lyon's, and Women's Club meetings.



MU Extension is a unique funding partnership.

Extension funding is a three-way partnership of federal, state and county government. Federal and state money, through the University of Missouri system, pay professional staff salaries, training costs, computers and communication equipment. County funds support the local office, secretarial and youth assistant salaries, staff mileage and council expenses.

The Carroll County Extension Council, faculty and staff would like to express our appreciation to the Carroll County Commissioners for their continued support of extension programs.



Local Support

Did you know you can donate directly to Carroll 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.



Carroll County 4-H

In 2023, Carroll County 4-H served more than 200 youth through four organized clubs, YMCA after school programming, school enrichment, and 4-H/Clover Kids camp.

- 58 4-H Members
- 23 Volunteers
- 9 Clover Kids
- 124 Chick It Out: Embryology youth
- 10 YMCA after-school youth
- 6 Eating from the Garden youth

Right: Emily Bergsieker, Interim Carroll 4-H Youth Specialist visited several schools throughout Carroll County as they

participated in Chick

it Out: Embryology. Below: Youth experiencing chicken development.



the right is the Miller Family from Bogard. At the 2023 Carroll County Fair they were named the State Fair Farm Family.

Pictured to



Above: Carroll County Youth Exhibiting Market Goats at the 2023 Missouri State Fair



Volunteers are the core of the 4-H program. They help to create, support, and deliver educational programs and experiences.

Valuing their time at \$29.95 per hour, the contribution of Carroll County 4-H volunteers was worth more than \$68,885.

Sharon Coopman served as the Carroll County Youth Program Associate (YPA) from May-August 2023. In partnership with the Livestock Leaders, 4-H Council, and Fairboard, the Carroll Livestock shows saw record numbers of participants and class numbers in every class. The 4-H team also set up a 4-H information table in the Youth Building next to the Exhibits – both increasing building attendance and creating contacts with 5 possible new families interested in 4-H.



In 2023, Carroll County 4-H members participated in:

- University of Missouri Livestock Judging
- 4-H Week
- Missouri State Fair
- State Public Speaking Contest
- 4-H Summer Camp at Camp Bobwhite
- Clover Kids Day Camp
- Carroll County 4-H Achievement Day
- Carroll County Youth Fair Exhibit Day & Livestock Shows
- Pie Baking Contest & Auction hosted by 4-H Youth Council members
- Move Across Missouri
- Show Me Quality Assurance
- First Friday in Carrollton 4-H & Extension Booth

Below is the 4-H Quilt being auctioned at the Carroll County Livestock sale to raise funds for the 4-H. Quilt sold for over \$4,000.00



County & State Public Speaking



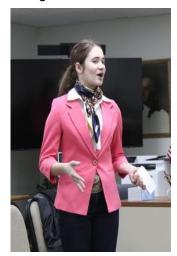
Top Left: James Reid, Bosworth Fireballs 4-H Club - Extemporaneous Speech, Intermediate Division

Bottom Left: Kristen Waters, Chase 4-H Club - Prepared Speech, Senior Division

Bottom Right: Grant Waters, Chase 4-H Club - Prepared Speech, Junior Division

Top Right: Frank Henry Miller, Bogard Willing Workers 4-H Club - Prepared Speech, Junior Division

All four youth advanced to the State Public Speaking Contest in September 2023. Congratulations!





Fred Smith (4-H Youth Specialist), joined by Alex Heussner (YPA) in October, along with MU Extension specialists, worked through the year to produce quality, positive youth development opportunities that are fun, educational, and community focused!



100 Days, 100 Miles

This year's 100 Miles, 100 Days Extension initiative made a significant impact statewide, attracting over 1,300 participants in Missouri, including 11 from Carroll County and more than 240 in our Northwest Region. Throughout the 100 days of summer, participants were urged to discover their own enjoyable ways to cover the equivalent of 100 miles. The diverse activities reported ranged from hikes and bike rides to navigating wheelchairs through MO State Parks.

The program's weekly motivational emails provided valuable education and fueled a friendly county competition, adding a bit of excitement into the challenge. Whether participants reached the coveted 100 miles or not, the ultimate goal of our initiative was to instill a lasting enjoyment of movement through a blend of encouragement, accountability, and motivation.







This is an 8-week arthritis and fall prevention program, hosted by Nutrition & Health Specialist Sue Robison, encourages movement and strengthens muscles.

Studies have shown that tai chi improves muscular strength, flexibility, fitness and immunity, while enhancing quality of life and decreasing the overall incidence of pain

Two separate sessions were held in 2023, with 10 participants total from Carroll County.

Stay Strong Stay Healthy

The Stay Strong Stay Healthy program utilizes 8 exercises with the assistance of hand and ankle weights to build muscle, increase bone density, and improve balance. 25 Carroll County participants joined for Level 1 and 2 sessions, hosted by Sue Robison, Nutrition & Health Specialist.

According to the American Hospital Association, in 2020,the average cost for one day stay in a hospital in Missouri was \$2,668. By addressing the fall risk through education with Health & Nutrition Specialist Sue Robison, MU Extension Fall Prevention programs enhance well-being, reduce medical expenses, preserve quality of live and contributes to supporting the local economic well-being of the community through support of local business and volunteerism. "My balance is so much better." "I am steadier on my feet." - SSSH Participant feedback



CHILDCARE PROFESSIONAL DEVELOPMENT

In 2023, our Human Development and Family Science Field Specialists, including Jessica Trussell, delivered impactful childcare programming both in-person and virtually across Missouri. This vital initiative not only met but exceeded the professional development needs of childcare providers, offering a total of 1,220 clock hours through 36 sessions. A remarkable 610 childcare providers attended, ensuring their compliance with the annual requirement of 12 hours.

Residents were served in the following counties, although the program continues to be offered statewide: Caldwell, Carroll, Lafayette, and Livingston.

This widespread program reached 32% of Missouri counties, including the City of St. Louis, making a significant impact on early childhood education and development statewide

FOCUS ON KIDS

"I think anyone divorcing or having trouble co-parenting should take this class or get help with their issues or ways to resolve conflicts. Getting along for the kids is most important and people should really take this information to heart." Focus on Kids Participant, 2023

Focus on Kids is a divorce and co-parent education program provided by the Department of Human Development & Family Science and the University of Missouri Extension in collaboration with the circuit court system. The goals of the program include understanding the importance of involvement by both parents in the co-parenting situation, understanding developmental needs and reactions of children to divorce, and learning about helpful co-parenting behaviors in addition to receiving additional information on community resources. Attendees overwhelmingly reported they were more knowledgeable about the effect of divorce on children and that the class provided them with tools to reduce their children's stress and enhance their coparenting together.

Jessica Trussell, Human Development Specialist, taught 14 online participants from Carroll County in 2023.

Nutrition Program Impact

Carla Wayland-White, Nutrition Program Specialist, worked with groups throughout Carroll County in 2023. One of the participants that has been attending the Eating Smart, Being Active adult classes in Carroll County stated that she did not realize that food was categorized into the five food groups.

She has learned that MyPlate is made up of fruits, vegetables, grains, protein, and dairy. In addition, she now knows how each food group contributes to a healthy eating lifestyle. She stated before these classes she thought that "food was just food; you eat because you're hungry." It is exciting and rewarding to help educate and promote healthy eating through the Family Nutrition Education Programs that are provided by the University of Missouri Extension. These programs are helping change lives of the residents of Missouri!

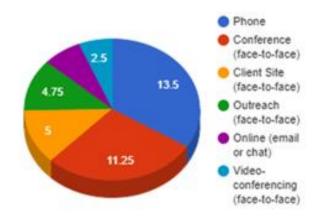




Business & Community

Socially Disadvantaged and Veteran Farmers and Ranchers Grant Wraps up Year Two

The Socially Disadvantaged and Veteran Famers and Ranchers grant submitted the fourth quarter report for year two in September. This is a three-year grant that assists socially disadvantaged and veteran farmers and ranches in owning and operating successful farms. Katie Neuner is the team lead on business counseling on the grant. They have worked with 36 clients in 20 Missouri Counties. The counseling efforts have resulted in \$40,359 to producers in services and grants.



Extension Tax Schools



University of Missouri Extension agricultural economics department and ag business specialists worked together to coordinate one summer and three fall tax schools. The summer school was in person and live online. Fall schools were in Columbia and Springfield and in addition a was online. The schools were designed for those who prepare taxes including enrolled agents, tax preparers, CPAs, individuals, and attorneys (shown at right).

The training included updates on legislation, rulings and

cases, individual taxpayer issues, agricultural and natural resources topics, ethics, trusts and estates, agriculture and natural resource tax issues, business tax issues, business entity tax issues, IRS issues, penalties and defenses, form 4797 sales of property, retirement tax issues, like-kind exchange issues. The 2023 school attendance totaled 327, with 1 participants from Carroll County.

Volunteer Income Tax Assistance (VITA)

Sue Robison, Nutrition and Health Field Specialist, and Tracie Moore, Community Development Field Specialist, were part of the 2023 NWMO VITA Tax preparation team, offering free tax prep to people needing assistance filing their 2022 tax returns. The NWMO VITA program allowed low income, disabled, and older clients to get their returns prepared for free when they didn't feel comfortable using free online resources themselves.

The counties that provided VITA (Volunteer income tax assistance) were Grundy, Saline and Carroll Counties. **Impact**.

- 24 individuals/couples filed their 2022 taxes in Carroll County
- Total federal refunds in northwest Missouri was \$126,116, with \$56,980 being returned from the state.

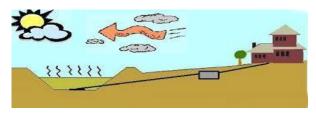
Volunteers spent 377 hours preparing 263 tax returns in Northwest Missouri.

Cost savings to taxpayers (\$200 per tax return) was \$52,600



On site septic systems

The most common question 2023 for Ag Engineering Specialist, Jim Crawford, was septic lagoons going dry from the drought and what should they do. Each is slightly different, but the general recommendation is to add water to maintain its function and to keep the bottom seal from cracking and causing leaks in the future.



A diagram of how an on-site septic system works when incorporating a lagoon in place of a leach field.

The average cost to replace a septic system is approximately \$20,000. MU Extension offered citizens across NW Missouri with resources for simple, preventative steps to maintain their system and to avoid this cost.



Flower Show – Carroll County Fair

More than 100 people viewed the 2Nd Annual Flower Show at the County Fair (pictured left). Carroll County residents submitted flowers, arrangements and fairy gardens for fair goers to admire.

Farmers Market Grant

In 2023, MU Extension partnered with Missouri Department of Agriculture to collect price data across the state for Missouri growers to compare what prices are in their area and in other regions. Items assessed (right) included vegetables such as those shown to the right. Kathi Mecham visited markets in Johnson, Pettis, Lafayette, Saline, Ray and Carroll countries every year.

Private Pesticide Applicators

During this training held in 2023, participants learned about safe handling of pesticides, proper mixing, calibration techniques, environmental ramifications of improper mixing or careless application, chemical breakdown of pesticides in the environment, what records are needed, pesticide formulations, personal protective wear and how to clean it, pesticide storage, common Missouri pests, and integrated pest management (IPM) techniques.



There were 42 producers from Carroll who attended the Pesticide Applicator Program this year with Agronomy Field Specialist, Valerie Tate.



Carroll County Garden of Dreams

County green thumbs celebrated the opening of a new community garden in Carrollton in 2023. The Garden of Dreams project came to fruition through MU Extension, H.E.L.P Services, Carrollton Public Library, Kiwanis, and Carrollton Municipal Utilities, who provided free installation of water services, along with numerous individual volunteers and local business donations. Raised beds were built, soil and mulch were delivered, and vegetables and flowers were growing in the garden by June.

For those who are new to the gardening world, Kathi Mecham, Horticulture Specialist with MU Extension, provided education and answered gardening questions throughout 2023. With the help of others, a Monarch WayStation was also marked off in 2023 with plans for the spring to create a native plant garden to attract monarch butterfly. Future programs such as composting and disease identification can also be hosted at this hands-on location.



Planting tomato plants (left, Kathi Mecham, Horticulture Specialists) and Ribbon Cutting (right) for the Garden of Dreams.



Soil Testing for Fields and Gardens

In 2023 there were 24 field soil samples and 10 garden soil samples from Carroll County analyzed by the MU Soil Testing Lab.



Above is a tomato plant with herbicide damage. Soil testing could offer insight to this issue.

Soil testing is a valuable tool for farmers and gardeners. It is a process used to estimate the ability of the soil to support plant growth. Soil samples submitted to the University of Missouri Soil Testing Lab are analyzed for soil pH and soil nutrients including phosphorus, potassium, calcium and magnesium. Soil can also be tested for micronutrients including sulfur, zinc, manganese, iron and copper.

The objectives of the MU Soil Testing Lab are:

 To help farmers make effective use of fertilizer to increase their financial returns

- Benefit society with improved environment and water quality through efficient use of fertilizer on farms, lawns and gardens;
- To ensure public and private labs are providing reliable and quality soil test results to the citizens of Missouri.

Soil testing is a cost-effective way to determine if adequate fertilizer or amendments are being applied to obtain the desired yield both in the field and garden without applying excess fertilizer which is not only costly, but can be damaging to the environment.



SNAP-Education in 2023

The Supplemental Nutrition Assistance Program Education (SNAP-Education or SNAP-Ed) brought \$10,874,798 in federal funds to Missouri. During FY2023, Missouri's SNAP-Ed program reached over 78,000 Missourians through direct classroom education. Each person participated in an average of 6 hours of education totaling over 15,000 hours. In addition, an additional 760,135 persons participated in indirect education. Direct and indirect education resulted in over 1.8 million total contacts with Missourians.

A total of 244 participants were from Carroll 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.



Master gardener Linda Mason handing out tomato plants at the First Friday event on the Carrollton square



Local Outreach Events

MU Extension faculty, staff, Extension Council members, and volunteers worked to spread knowledge and resources throughout Carroll County in 2023.



Council member Christy Crawford and Nutrition & Health Specialist Sue Robison helping to make kites and educate the public about MU Extension at the Norborne Kite Festival

Extension Council (left) mingling with at the Tweedie Agri-Business Forum



Norborne Soybean Festival



Carroll County Faculty and Staff with K.C. Wolf at the Soybean Festival



Livestock Specialist, Heather Conrow, working with the kids during the Soybean Festival – youth dissected eggs to learn about the parts of both fertilized and unfertilized eggs.



Kathi Mechan, Field Specialist in Horticulture, teaching about soybean germination at the Soybean Festival in Norborne, Missouri.

Fred Smith, 4-H Specialist, and Sharon Coopman, YPA, helping youth make Soybean pin crafts and discover a soybean sensory bin.



Carroll County

UM System Footprint in the county in 2023



52 students

- 42 Undergraduates
- 10 Graduate and professional students
- 31 Full-time students
- 21 Part-time students
- 10 Pell grant recipients (aid year 2023)



County employees and retirees

13 people employed by UM

11 Campuses

2 MU Health Care
3 UM retirees and beneficiaries
UM salary and retirement income:
\$378,449
UM state tax revenue: \$8,927
UM federal tax revenue: \$47,930

County alumni

Selected school alumni

- 2 Medicine
- 13 Nursing
- 17 Health Professions
- 7 Dentistry
- 7 Pharmacy
- 2 Optometry
- 2 Veterinary Medicine
- 112 Agriculture
- 23 Engineering
- 11 Law

Alumni teaching K-12

- 20 teachers
- 13.6% of all district teachers
- 1 principal or administrator
- 12.5% of all district principals and administrators



MU

- 32 students
- 261 alumni
- 11 employees

имкс

- 14 students
- 46 alumni
- 0 employees

Missouri S&T

- 2 students
- 5 alumni
- 0 employees

UMSL

- 4 students
- 4 alumni
- 0 employees

County properties and offices

MU Extension in: Carroll County



County population: 8,564

2

County services provided

Health care (FY23)

- 511 in-state patients seen at MU Health Care, with \$336,904 of uncompensated care
- 4 in-state patients seen at UMKC School of Dentistry with a statewide average of \$43.61 per patient in uncompensated care
- MU Health Care's Missouri Telehealth Network recorded 201 visits to 106 patients having ZIP codes associated with the county

Extension (2022)

- 1,719 Total educational contacts from MU Extension to residents of the county, including:
- 590 contacts related to productive farming, better gardening, and managing natural resources
- 1,129 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development

University of Missouri System

Carroll County

UM System Statewide Footprint

Economic and Community Development Highlights

• In 2022, Business Development Specialists worked with small businesses and entrepreneurs statewide to create or retain 81,645 jobs.





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 FY17 and FY22, UM System brought Missouri more than \$1.46 billion in federal and private research funds, funded primarily from outside the state, but spent within the state.



In FY23, UM System was issued 33 patents and filed 61 new U.S. patent applications.

• In FY23, the UM System awarded 805 design and construction project contracts throughout Missouri, for a total investment of \$279.2 million in the state.



In FY23, to improve access to medical and health related services, MU Health Care's Missouri Telehealth Network's Show-Me ECHO program provided 18,381 hrs of case-based instruction to 2,938 learners located in 112 of 114 Missouri counties and the city of St. Louis.

Education and Training Provided



41,992 police, fire And fighters, and medical professionals police and fighters and



Agriculture and natural resource programs served 174,692 farmers and related businesses (2022)



311,749 youth and stakeholder educational contacts in 4-H clubs, schools, camps and other programs (2022)



Education Highlights

FY23 Financial Aid Awards

In FY23, 67.3% of the UM System's 80,702 students received financial aid totaling \$973.7 million

| MU | | UMKC | |
|---|---------------------------------------|---|----------|
| 27,256 students receiving financial aid | \$536.0M | 11,859 students receiving financial aid | \$217.3M |
| Missouri S&T | | UMSL | |
| | · · · · · · · · · · · · · · · · · · · | | |

6,748 students receiving financial aid \$117.7M 8,489 financial aid awarded students received

8,489 \$102.8M students receiving financial aid awarded



UM System's MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to 58 higher education institutions (230,000 students), 485 K-12 school districts (832,000 students) and 132 public libraries (serving nearly 3 million Missourians) in 2022.

- UM System awarded 50.5% of the 32,098 Bachelor's or higher degrees awarded by Missouri four-year public institutions in 2022–23.
- UM System awarded 36.6% of the 1,935 research doctorates and 26.9% of the 3,593 professional doctorates awarded by Missouri public and not-for-profit private institutions in 2022–23.
- In FY23, UM System's \$37.9 million in National Science Foundation (NSF) grants represented 88.3% of all NSF grants made to Missouri public colleges and universities.
- In 2023, over 10,900 Missourians accessed mobroadband.org, part of the UM System Broadband Initiative which helped the statewide build-out of high-speed internet infrastructure. MU Extension also supported residents in making individual challenges to the FCC that resulted in \$810,000 in additional funding for the state of Missouri.

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

Data last updated 12/18/2023

attending continuing

education (2022)