December 1, 2020

Dear county commissioners and friends of MU Extension,

Few of us have experienced a year quite like 2020. The COVID-19 pandemic has brought each of us so many unforeseen professional and personal challenges. Yet, as difficult as the last months have been, they have also called us at University of Missouri Extension and Engagement to think about our work differently and find new ways to serve and respond to Missouri’s needs.

We are working harder and more innovatively to develop local and statewide partnerships and collaborations that help us improve lives, communities and businesses across the state. Through our four UM System universities, we are working to expand our state’s broadband access and support statewide efforts to prepare our workforce for 21st century opportunities. This work is key to keeping Missouri’s economy competitive and helping people and communities in every part of our state thrive.

We continue to expand and develop tools like the All Things Missouri web portal (https://allthingsmissouri.org) that provide a wealth of data local leaders can use to pinpoint county and community needs and plan for coordinated solutions. New COVID-19 tracking tools, for instance, help county health departments accurately assess the local impact of the virus and coordinate targeted responses. A new Missouri Food Finder tool (https://mofoodfinder.org) matches consumers with growers and producers to create a market for locally grown foods. The UM System Community Connect web portal (https://community.umsystem.edu) showcases the many resources, services and faculty programs available to the community through each of the four universities in the UM System. Please explore and use these tools. Tell us how we can improve them to better serve you.

Whether online or in person, we are committed to working with you to deliver knowledge, resources and programs that best meet your communities’ interests and needs. I hope you see the impact of that work in this year’s county annual report — just as you see your own hand, as key stakeholders, in making this work possible.

We greatly appreciate your support of MU Extension as partners within your community. As always, I welcome your input on how the University of Missouri can better serve you as we look forward to a brighter year ahead.

Sincerely,

Marshall Stewart, Ed.D.
Vice Chancellor for Extension and Engagement
From the Osage County Extension Council:

University of Missouri Extension is part of a network of nationwide land-grant universities. We are your local contact to the University of Missouri campuses.

Each of Missouri’s 114 counties has an extension council who oversees local educational programs. The Osage County Extension Council consists of 12 elected and 4 appointed members. We are proud to offer quality programs that meet the highest-priority needs of our communities.

This Annual Report highlights programs provided in Osage County during the past year. Many positive outcomes have been reported by the individuals, families, farmers, and businesses who have participated in the programs. The benefits frequently go beyond what is gained by the participants whereas the community may realize a significant value as well.

We want to recognize and thank all of the volunteers, organizations, and businesses for their support and hard work. We also are grateful for the continued financial support of the Osage County Commission. These partnerships make University of Missouri Extension programs possible in our county.

Please call or stop by the extension center if you have questions or would like additional information or assistance.

Sincerely,

D.J. Schroeder
Chairman

Amanda Brandt
Secretary

County Council Members

D.J. Schroeder, Chairman
Nathan Woehr, Vice-chairman
Amanda Brandt, Secretary
Jeanette Vocks, Treasurer
Mary Kever, Treasurer
Jennifer Bacon
Nina Crowe
Lindsay Luebbering
Patricia Luebbert
Rhonda Mitchem
Teresa Skaggs
Lawrence Speichinger
Keith Neier
Brent Dudenhoefner

County Commissioners

Presiding Darryl Griffin
Associate Larry Kliethermes
Associate John Glavin
Youth Development

4-H Youth Development

A community of 155 4-H Youth learned life skills, contributed to their community, and participated in college and career readiness programs. Findings from a 2019-20 evaluation study reveals that Missouri 4-H do the following.

**Missouri 4-H Inspires Kids to Do**
95% said they are willing to work hard on something difficult.
80% set personal goals.
96% said they try to learn from their mistakes.
97% said they treat others the way they want to be treated.

**Missouri 4-H Grows True Leaders**
91% said they like to learn about people who are different from them.
91% said they think about others feelings before they say something.
76% reported feeling comfortable being a leader.

**4-H Builds Leadership and Communication Skills**
86% help others reach their goals.
69% comfortable speaking in a group.
98% said they show respect for other’s ideas.
86% Can work with someone who made them upset.
93% Look for ways to involve all members of a group.

**4-H Builds Social and Emotional Skills**
92% said they keep trying until they reach their goals.
85% Stop to think about their choices, when making a decision.
98% reported that they like to learn new things.
67% of Missouri 4-H’ers surveyed said they are willing to try something they might get wrong.

**Top Six**

**Top Skills Developed because of 4-H:**
1. Leadership
2. Building Relationships/Meeting new people
3. Project Skills
4. Willing to try new things
5. Public Speaking/Presentation Skills
6. Sportmanship/Handle Competition

**What youth enjoy most about 4-H:**
1. Exhibiting at fairs
2. Participating in projects
3. Going to Camp
4. Community Service
5. Participating in Contests

**Career Readiness**
75% said 4-H Helped me decide what I will do after high school.
96% said 4-H has given me skills that will be helpful after high school.
86% said I know what I want to do after high school.

4-H also prepares youth for the work place. 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 not yet been invented to solve problems that have yet to be identified. 4-H is the only youth development program with direct access to technological advances in agriculture, life sciences, engineering, learning technologies and social sciences from the university system. This brings relevant science content and hands-on learning that helps youth thrive (Arnold, Bourdeau, & Nott, 2013).

In Osage County youth were engaged in 310 science related projects and experiences.
4-H Clubs
A total of 125 youth participated in Osage county 4-H. Osage County 4-H clubs offer long-term educational experiences in which members learn life skills such as decision making, public speaking and working with others. Members learn by doing under the guidance of adult volunteers, who teach projects ranging from computers science and arts to animal science and healthy living. Clubs also involve youth in community service, camping and educational trips.

4-H Day Camp:
Participants = 30
Osage County youth attended a Holiday Fun Fest. Youth participated in several 4-H projects such as cooking, robotics, public speaking, healthy living, and arts and crafts. This event hosted 4-H and non-4-H families.

Volunteers
4-H members are supported by 60 youth and adult 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 Osage 4-H volunteers was worth more than $163,200 in 2020. More importantly, these individuals serve as role models and mentors for youth.

QuaranTIME
To keep youth and volunteers active and engaged during a period of quarantine due to Covid-19, Missouri 4-H implemented a series of online activities from mid-March through the end of May 2020. We used Facebook to house these activities and branded the overall experience as QuaranTIME. Monday through Friday we had a schedule of events that included the QuaranTIME Challenge, healthy living posts/videos from the 4-H State Council, a Cooking Connection segment from our partners in HES, 4-H Online: Learning episodes, and Chick Watch.

Chick Watch
Each spring, 4-H sends many incubators into elementary classrooms so that youth can learn about embryology and watch the chicks hatch. Schools went into shut down about the time the eggs were being distributed. 4-H State Specialist Laura Browning took an incubator and eggs to her home and set up a nest cam. The nest cam live streamed to 4h.missouri.edu for anyone to watch the eggs. Each day on Facebook, Laura posted an educational piece to teach what was happening inside the egg. There was a total of 16 Facebook posts, which resulted in a total reach of 25,334 with 1,135 engagements.

References
Traditions at the County Fair

With a few changes to adjust to the pandemic, the 2020 Osage County Fair proceeded to allow local youth to exhibit their hard work. 4-H building exhibits, livestock shows, and the market animal auction were all a success! To keep members and judges healthy, all members who displayed 4-H projects filled out a paper interview form; sharing what they learned in the 4-H project, steps to accomplishing the project, and what they can do to make the project even better.

Fun Fest

Osage County youth attended a Holiday Fun Fest. Youth participated in several 4-H projects areas such as cooking, robotics, public speaking, healthy living, and arts and crafts. This event hosts 4-H and non 4-H families. The goal outcomes of the event are to expose new families to the offerings of 4-H and the benefits of joining; while also allowing current 4-H members to try new projects areas they have not participated in before.

Regional Energizer

Each year, the 4-H East Central Region holds a Regional Energizer to allow youth to meet 4-H members from other counties, learn about new project areas, and hear from motivational speakers cover simple tasks members can focus on to improve their learning and leadership skills. Osage County had five members attend in 2020.
Focus on Kids

Focus on Kids provides divorcing and separated parents with information to make divorce successful for the children by helping parents learn co-parenting skills and understand how to help the children cope with the big change in their life. Program evaluations indicate that participating in the Focus on Kids can reduce the level of conflict between parents and therefore reduce the level of stress on children. Parents learn how to nurture and support their children during and after separation and divorce, which leads to more children being raised in a healthy, low-conflict environment. This benefits other community members by reducing the need for community health services for children.

One-year follow-up surveys indicate that nearly 75% of former FOK participants report the program as being helpful and worthwhile, still credit the program as increasing their knowledge and usage of positive co-parenting behaviors, and reported significant reductions in co-parenting conflict.

In 2020, due to the pandemic, many parents were instructed to take the Focus on Kids online class. 22 Osage County parents completed the class online. An additional 12 parents completed an in-person class.

MU Extension Field Specialists in Human Development collaborate with judges in the 20th Judicial Circuit to provide Focus on Kids classes.

Child Care Provider Classes

The staff who work in licensed child care centers must obtain 12 clock hours of professional development each year for the site to maintain licensure. MU Extension Field Specialist in Human Development offer local classes to provide convenient opportunities for the child care providers to obtain the hours needed. Due to the pandemic, classes were offered via zoom in 2020. A total of 16 classes were offered. Each class was repeated twice, once in the afternoon and once in the evening for the convenience of the child care providers, and each offered two clock hours of professional development.

6 Osage County Child Care Providers participated in at least one of the classes.

Child care provider training impacts communities by meeting the three grand challenges MU Extension seeks to address.

**Economic Opportunity:** Helping child care centers maintain the licensure needed to provide quality child care allows parents with young children to enter and/or stay in the workforce. In addition, it provides employment for the child care staff.

**Educational access and excellence:** Providing quality educational programs to child care staff, at a convenient time and in a convenient location, increases their knowledge of best practices in procedures and their understanding of child development. This allows for a greater quality of child care for the children they work with.

**Health and Well-being:** Some of the courses offered, such as Taking Care of You and Sleep and Health are designed to help care givers learn to take care of their mental and physical health needs. Other courses are designed to help care givers understand the best way to work with children of different ages, so they can provide a high standard of nurturing and care, and provide an environment that helps children thrive, physically, emotionally, and cognitively.
Continuing Education

Osage/Gasconade Treatment Court Life Skills
The 20th Circuit Court requested Dave Hileman, MU Extension Field Specialist in Human Development, to provide life skills lessons for the Osage/Gasconade Treatment Court. A plan was developed to provide 8 classes in 2020. Due to the pandemic, all but one of the classes was cancelled. However, the February Class on Communication Skills to Help Reduce Conflict was delivered to 11 participants from Gasconade and Osage Counties. All of the participants were able to list two things they learned from the class that they would try going forward.

Building Strong Families for Clients of Gasconade and Osage County Children’s Division
The Gasconade and Osage County Children’s Division of the 20th Circuit Court asked Dave Hileman, MU Extension Field Specialist in Human Development, to provide parent education classes for parents who are seeking to regain custody of their children. A plan was developed to provide the class four times each year, twice in Hermann and twice in Linn. The class included education in Family Strengths, Positive Discipline, Setting Goals and Communication Skills to reduce conflict. Due to the pandemic only three classes were held in 2020, all of them in Hermann. A total of 14 parents attended one of the parenting classes. All were able to indicate how they would try to use the information received in each session to strengthen their family and other relationships.

Fire and Rescue Training Institute
MU Extension’s Fire and Rescue Training Institute (FRTI) is charged with providing comprehensive continuing professional education and training to Missouri’s fire-service and emergency response personnel. The institute has a direct effect on the well-being and protection of Missouri’s 24,000 firefighters and the 5.9 million citizens they serve. In addition to preparing them to fight fires, courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation. Twenty-one individuals from Osage County received training in 2020 from Extension and University of Missouri.
### Family Nutrition Program
Reaching low-income children and families with nutrition education

<table>
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<tr>
<th>Who Are the Learners?</th>
<th>What School District/Agencies are Served?</th>
<th>What Did Participants Learn?</th>
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</table>
| **Family Nutrition Program (FNP)** provides information on nutrition, food safety, and physical activity for lifelong health and fitness. In Osage County, a total of 713 contacts were made.  
- 533 youth  
- 180 adults | In the following schools and agencies:  
- Fatima Elementary  
- Osage Co. Elementary—Linn  
- Osage Co. Health Department | Nutrition Program Associate, Kevin Lawrence, goes into schools and interacts with community members to help them make healthier meals and snack choices, eating breakfast more often, are 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.  
The Family Nutrition Education Program reduces healthcare costs over the participant’s lifetime, saving taxpayer money in reduced public healthcare benefits and insurance premiums. |

### Success Story.....

While doing the first virtual show me nutrition lesson with a second grade class at Fatima Elementary, one of the students shouted out that they remember me. She said that “she remembers trying the sugar snap peas in first grade and liked them so much that she has eaten them many times at home since then. She said that they are her favorite vegetable and that she wants to eat them every day.”
# Livestock Education

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<th>How Does This Work to Make Osage County and Missouri Better?</th>
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<tr>
<td><strong>Show-Me-Select Program and First Central Region Sale</strong>&lt;br&gt;<img src="image" alt="Show-Me-Select Heifers" /></td>
<td>Focuses on increased adoption rate by farmers in Missouri of management practices that offer potential to improve long-term reproductive efficiency of their herds and resulting profitability.</td>
<td>Focus is put on increasing marketing opportunities and adding value to Missouri-raised heifers with the creation of reliable sources of quality replacement heifers in terms of genetics and management.</td>
<td>Three Osage County producers enrolled in the program. With a total of 145 heifers at the first Central Region Show-Me-Select Heifer sale at the South Central Regional stockyards, the average was $1735 (compared to others average of $1168). For all Osage county heifers, this totaled to $9072 added value.</td>
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<tr>
<td><strong>Backgrounding 101</strong>&lt;br&gt;(online event)</td>
<td>More about the facet of beef management that is referred to as backgrounding.</td>
<td></td>
<td>While many of the beef cattle operations in Missouri are cow/calf, this is another opportunity to market beef.</td>
</tr>
<tr>
<td><strong>Pearls of Production</strong>&lt;br&gt;(Pixels of Production)&lt;br&gt;(multi-day online event)</td>
<td>Targeted women in agriculture to provide them with information.</td>
<td></td>
<td>Over 420 participants attended with 1 from Maries/Osage area.</td>
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</table>

- Marketing & Economics
- Nutrition
- Management & Other strategies
- Health
- Facilities
- Backgrounding operation

A few topics:
- Ergonomic Tools
- Public Relations in Agriculture
- Livestock Identity and Tagging
- Making Money with Timber
- Silvopastures
- Farm Service Agency Programs
- Vaccinology
- Animal Welfare
- Grants
- Livestock Tools & Equipment
- Regenerative Agriculture
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<th>Programs</th>
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<th>How Participants Benefit?</th>
<th>How Does This Work Make Osage County and Missouri Better?</th>
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<tbody>
<tr>
<td>Soil Testing</td>
<td>Over 480 soil samples were from Osage County in 2020. Test results and recommendations of fertilizer applications were mailed to the customers that had submitted their samples. Follow-up consultations were provided, as customers needed additional assistance interpreting the results and recommendations.</td>
<td>Farmers who use soil testing have reported that yields have improved. Other farmers have reduced fertilizer inputs due to soil tests showing that fertility levels are already high. Gardeners and homeowners use soil testing to improve fruit and vegetable production or to make their lawn grow better.</td>
<td>Enables farmers to manage their soil fertility by first knowing current levels and which added elements would generate a return on investment. Promotes farm sustainability by keeping land productivity at a high level. Reduces unnecessary expenses of applying costly fertilizer at a level above what can be utilized. Reduces environmental impact from the off-target movement associated with over-application.</td>
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<tr>
<td>Private Pesticide Applicator Training</td>
<td>Approximately 46 farmers participated in private pesticide applicator training in 2020. Farmers learn about: - Pesticide labeling - Personal protective equipment - Environmental concerns - Pesticide mixing and application - Principals of pest control - Pesticide formulations</td>
<td>Farmers who wish to purchase or apply restricted se pesticides must go through training to obtain or renew a private pesticide applicator license.</td>
<td>Assists the Missouri Department of Agriculture in issuing private pesticide applicator license.</td>
</tr>
<tr>
<td>Integrated Pest Management</td>
<td>Farmers, gardeners and homeowners need information and education on pest management. Pest problems primarily are weeds, insects and diseases.</td>
<td>Individuals may reach out for pest identification and/or management options.</td>
<td>Farmers and commercial vegetable rowers, pest management can be important to profitability. Homeowners seek assistance due to aesthetic concerns.</td>
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</tbody>
</table>
Business Development

Business clients that our office supported with counseling secured **nearly $9 million in new loans, grants and equity in FY20**. This included $2.7 million in funding related to COVID-19 Economic Injury Disaster Loans (EIDL) and Paycheck Protection Program (PPP) loans and funding that enabled our area’s small businesses to continue operations and continue employing thousands of people.

Helped 17 businesses get started in the region.

Supported 2,537 jobs in the region.

We partnered with Meramec Regional Planning Commission (MRPC) and the U.S. Small Business Administration St. Louis District Office and Kansas City District Office on multiple programs to educate area business owners on EIDL and PPP programs related to the CARES Act and COVID-19 business support programs.

**Held 18 trainings attended by 549 people in the region.** This included adjusting to online delivery of trainings due to the pandemic. We partnered with federal, state, regional and local agencies to provide these business trainings, including University of Missouri Extension, Missouri Chamber of Commerce & Industry, Google, U.S. Small Business Administration, Veteran Business Resource Center, U.S. Census Bureau, Naturally Meramec Consortium, Missouri PTAC, Missouri Department of Higher Education and Workforce Development and YWCA St. Louis.

Here is a business success story that covered what Prock Operations in St. James did to keep the doors open and people employed during the start of the pandemic.


The Women in Business group, a collaborative program with the Small Business Development Center at Missouri S&T and the Missouri Chamber of Commerce and Industry, launched a Women in Business SPOTLIGHT program. This program recognizes women across central Missouri who are doing incredible work in their business or profession. Additionally, the U.S. Small Business Administration’s St. Louis District Office recognized the Women in Business group steering committee members for their work in providing more than 400 women across the region with opportunities for professional growth, training and strengthening their networks.

Business development specialist Karen Leatherman was awarded the Top 5 in Client Satisfaction Award by the University Of Missouri Extension’s Business Development Program, received her executive coaching certificate from the Missouri Small Business Development Center and Blue Mesa Coaching and became a Growth Wheel International certified business advisor to better serve the needs of the area’s business owners.
Stay Strong, Stay Healthy (SSSH)

Stay Strong, Stay Healthy (SSSH) aims to improve the health of the fastest-growing age group in the United States—older adults. By offering access to safe, effective and research-based physical activity, SSSH helps mitigate many of the health issues these older adults face.

The program aims to prevent frailty, injury and disease, improving the quality of life for older adults by increasing independence and productive living.

As a Result of SSSH in Missouri

Matter of Balance

Participants: 207
Total number of workshops offered: 20
Average sessions attended: 5.5
(out of possible 8)

Tai Chi for Arthritis and Fall Prevention

Participants: 164
Total number of workshops offered: 22
Average sessions attended: 12
(out of possible 16)
Leader’s Honor Roll

The Leader’s Honor Roll recognizes individuals who have excelled in supporting, educating and advancing MU Extension in our community and county.

John Estes— Mr. Estes who is owner of RTE of Linn, was nominated for the 2020 Leader’s Honor Roll because of his involvement with the grant to recycle the plastic haybale wrappings.

Michael Rost— Mr. Rost, manager at Linn MFA, was nominated for the 2020 Leader’s Honor Roll because of his involvement with the grant to recycle the plastic haybale wrappings.
Missouri Century Farm

**Dowler Farm**— Daniel & Deborah Dowler own and operate the 117 acre farm in Bland, Missouri. The farm was founded on September 30, 1908 by Daniel's father, Daniel M. Dowler.

**Falter Farm**— The Falter family farm got its start when Herman and Theresia Wansing Falter purchased 420 acres from Frank Loehner, the son of settlers Henry and Gertrude Loehner, in early 1918. In early 1918, Frank was married to Herman's sister, Frances Falter Loehner. Herman and Theresia purchased the land with the intent to sell it to two of their sons, one of them being Joseph (Joe) Falter. Joe and Annie Falter then purchased 204 acres from Joe’s parents, Herman and Theresia Wansing alter, in May 1918.

When Joe and Annie bought the acreage in 1918, all farmers used draft horses to work the soil. They raised corn and wheat to feed their six sows and 20 head of cattle. By 1942, they were farming with a John Deere B Tractor. As the years went on, Joe and Annie kept the pioneering spirit alive by being early adopters of electricity when Three Rivers Electric Cooperative appealed to the area’s farmers in the early 1940s. In 1949, they dug a well for indoor plumbing. For more than 50 years, Joe and Annie farmed the land. After retiring, they sold the farm to their youngest son, Norbert and his wife, Anne Rehagen Falter, in 1969.

Throughout the years, Norbert and Anne Falter made many changes to the farm. They increased the acreage to 600 acres by purchasing the original Frank and Elizabeth Schwartze property from Sylvester Wieberg in 1976 to raise more cattle, hogs and row crops. Plus, they rented additional adjoining acreage. They were one of the first farmers in the area to plant soybeans, a cash crop that helped them innovate more. Horses were brought back to the farm in 1992 when their youngest daughter wouldn't take no for an answer.

In 2009, Norbert and Anne received an Environmental Quality Incentives Program (EQIP) grant from National Resources Conservation Service (NRCS), a program of the United States Department of Agriculture (USDA), to implement intensive grazing systems. Intensive grazing helps improve pasture and forage conditions and increase stocking rates. They separated pastures into smaller lots and drilled more wells to ensure each paddock had water. They continued upgrading their intensive grazing systems until 2018.

The Norbert and Anne Falter family also raised lots of vegetables in a large garden and butchered their own animals for meat. They made liver sausage in a seasoned large wooden dugout brought to the U.S. from Germany. Many local families purchased this famous liver sausage. Dry curing meat was also common for the family. Country cured hams and summer sausage were staples that sustained the family of six children.

Norbert and Anne are excited to pass along the farm to the next generation of Falters! It will be interesting to see what innovations the next 100 years bring.
Kremer Farm—Wilfred H. and Mary Ann Kremer are the current owners of Kremer Farm, a 219 acre farm. It was originally purchased by Adolph J. Kremer who is Wilfred’s father on February 26, 1920. Kremer Farm is located in the Bonnotts Mill area.

There are two notable landmarks on Kremer Farm.

One notable landmark is a barn that was built about 110 years ago. The barn is still standing and used on the farm homestead. The barn was erected around an existing log barn or stable, which is standing in the center of the newer structure. The log structure likely dates from the early settlers, perhaps in the 1840’s or 1850’s.

The other notable landmark is a rock quarry that is located on the property along Linn Creek, from which limestone rock was quarried and transported to the town of Frankenstein during the construction of the catholic church in 1922-1923. Nearly all stone used in building the church originated from the farm.

Schmitz Farm— The Schmitz Farm started on February 4, 1920 when August and Regina Schmitz purchased the 175.5 acres. It is currently owned and operated by Vernon and Gloria Schmitz.
Schroeder Farm— The Wachtendorf farm was originally settled in Babbtown by Claus Wachtendorf in 1896. The farm started in Osage County where Claus raised cattle, goats, hogs, and chickens.

Pictured is a photo of the old log house that was originally built in the 1800's. The original log from the home was used to build another barn for the livestock. The house was then added on to with each generation. Some of the original buildings are still in use to this day. Behind the house used to be an orchard with multiple fruit trees along with a larger garden. There is an old road that runs through the farm that was used as the main road to get to the Beck General Store, Post Office, and Black Smith Shop that sat on the north side of the farm. This road ran from Van Cleve to the Mari-Osada.

To the left is a picture of Claus Wachtendorf in front of the original barn that faced north and south which burnt. A new barn was built in its’ place in 1951 facing east and west. This barn is still in use today.

Through the years the farm was passed from Claus Wachtendorf to his son Carl Wachtendorf in 1917. Carl passed it to his daughter Anna Schroeder (Wachtendorf) and husband Otto Schroeder in 1946. Anna passed it to her nephew ED Schroeder (current owner) in 1993.

Edwin (Ed) & late Jerline Schroeder bought the farm in 1993. Ed currently resides in the farmhouse that was built in 1896 on the 330 acres. He continues to raise Registered American Black Herefords, chickens and hay. Their children are Karen, Jason, Stacia and Eric. Jason and his family now own and reside on the land that the general store, post office and black smith shop were located years ago.
## Marketing Extension

<table>
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<tr>
<th>Program</th>
<th>ECHO</th>
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<tbody>
<tr>
<td><strong>What did participants learn?</strong></td>
<td>Extension’s Community Engagement Specialists (CES) in collaboration with Show-Me ECHO Program at MU’s School of Medicine were instrumental in recruiting staff from 135 nursing homes to participate in our Nursing Home COVID – 19 ECHO aimed at increasing best practices for preventing COVID - 19 in nursing home settings. Each nursing home that participates, at a predetermined level, will be awarded 6,000 dollars, funded by the ECHO Institute of Albuquerque in New Mexico. These efforts will likely resulted in $810,000 in funding being awarded to nursing homes (many of them rural) in Missouri in 2021. Furthermore, we believe that information shared in these weekly informational meetings with Show-Me ECHO’s nursing home professions will result in improved care of the residents entrusted to their supervision.</td>
</tr>
<tr>
<td><strong>How did participants benefit?</strong></td>
<td>Show-Me ECHO currently has over 27 different topics that our ECHO’s cover. Many of them strive to reduce health disparities and improve health outcomes in rural communities. Extension’s Community Engagement Specialists have been actively promoting these programs to professionals in organizations throughout their communities. They meet weekly to share outreach efforts, brainstorm additional opportunities for outreach, and trouble shoot challenges. These professionals have even participated in focus group meetings with Dr. Kimberly Keller, and Dr. Kevin Everett to gain insight into how the CES’s may be useful in collecting information/data on rural community’s attitudes, awareness, and behavior as it relates to health and health related issues.</td>
</tr>
<tr>
<td><strong>How does this work make Osage county and Missouri better?</strong></td>
<td>Show-Me ECHO learning sessions offer free continuing education and are provided at no cost to participating sites and individuals. MU Extension officials from across Missouri have been collaborating with Show-Me ECHO to help increase awareness of the opportunities Show-Me ECHO provides to rural communities, as well as help increases participation in their learning programs.</td>
</tr>
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</table>

Show-Me ECHO uses videoconferencing to connect interdisciplinary teams of experts with primary care providers and other professionals. Participants collaborate in interactive case-based learning to develop advanced skills and best practices, which improves patient care, access, quality and efficiency. Show-Me ECHO learning sessions offer free continuing education and are provided at no cost to participating sites and individuals. MU Extension officials from across Missouri have been collaborating with Show-Me ECHO to help increase awareness of the opportunities Show-Me ECHO provides to rural communities, as well as help increases participation in their learning programs.

1906 total Extension contacts in Osage county
25 volunteer hours given
## Plastic Baler Project

Participants and local area farmers/producers learn how to recycle plastic feed sacks and other plastic to be repurposed into plastic pipe. During 2019, Osage County Extension council worked with County Commissioner John Galvin, local farmer Nathan Woehr, Osage County Farm Bureau and Michael Rost of MFA in Linn on the development of a $10,000 grant application to the Mid-Missouri Solid Waste Management District. The application was for the purchase of a baler to be stationed at Linn MFA to crate bales from the plastic wrap waste left over from silage hay bales to feed farm animals. Through a coordinated local promotional effort, a listing of 28 local farmers expressing interest in the project representing over 7,000 bales with plastic to be recycled was assembled in support of the grant application. The bales of used plastic would be collected by Revolution Recycling in Arkansas to be repurposed into plastic pipe. This pilot project is the first of its kind in the entire state of Missouri. The application included letters of support from Osage County Farm Bureau, the Osage County Commissioners, and the Osage County Extension Council. The application received the highest review score of 9 applications during a November Mid-MO Solid Waste Management District Advisory Committee review.

### Participants

Participants benefit by recycling community plastic that would typically sit in a local dump affecting area pollution and wildlife. By recycling the plastic at MFA-Linn the material is turned into plastic pipe in Arkansas instead of being thrown away. This saves money on supplies for pipe.

### How does this work make Osage county and Missouri better?

- The Osage County proposal, made by MFA-Linn, received the highest point total in the funding review process, with major support from Osage County Farm Bureau, county commissioners, Osage County Extension Council, MFA-Chamois and Rosebud Tractor, the latter two promoting the project at their respective businesses.
- A total of 28 local farmers expressed interest in participating in this pilot project and shared how many bales they thought they would be contributing waste plastic from for the recycling baler. The Osage County Extension Council also voted to include $400 in its 2020 budget to support this project.
## Financial Report

**Osage County**  
**University of Missouri Extension Council**  
**2020 Budget**

### Income

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Fees</td>
<td>2,735.90</td>
</tr>
<tr>
<td>Governmental Appropriations</td>
<td>60,284.67</td>
</tr>
<tr>
<td>Investment Income</td>
<td>1,068.86</td>
</tr>
<tr>
<td>Gift/Grants/Contracts</td>
<td>12.00</td>
</tr>
<tr>
<td>Resales/Educ Services Fees</td>
<td>1,113.50</td>
</tr>
<tr>
<td>Miscellaneous Income</td>
<td>60.00</td>
</tr>
<tr>
<td>Balance Transfers</td>
<td>118.38</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td>65,393.31</td>
</tr>
</tbody>
</table>

### Expense

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel Serv - Salaries &amp; Wages</td>
<td>22,561.50</td>
</tr>
<tr>
<td>Payroll Expenses</td>
<td>5,380.71</td>
</tr>
<tr>
<td>Non Payroll Salaries</td>
<td>15,304.56</td>
</tr>
<tr>
<td>Travel</td>
<td>1,827.45</td>
</tr>
<tr>
<td>Postage</td>
<td>2,082.32</td>
</tr>
<tr>
<td>Telephone Serv - Local</td>
<td>1,290.36</td>
</tr>
<tr>
<td>Advertising</td>
<td>842.92</td>
</tr>
<tr>
<td>Rent/Lease Equipment</td>
<td>1,806.08</td>
</tr>
<tr>
<td>Publishing/Printing</td>
<td>164.38</td>
</tr>
<tr>
<td>Reproduction/Copy Services</td>
<td>40.49</td>
</tr>
<tr>
<td>Supplies/Services</td>
<td>2,094.38</td>
</tr>
<tr>
<td>Insurance</td>
<td>640.00</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>455.90</td>
</tr>
<tr>
<td>Extension Council</td>
<td></td>
</tr>
<tr>
<td>Election Expenses</td>
<td>25.00</td>
</tr>
<tr>
<td>Soil Test Expenses</td>
<td>629.50</td>
</tr>
<tr>
<td>Publications for Resale</td>
<td>96.00</td>
</tr>
<tr>
<td>Repairs/Maintenance</td>
<td>154.58</td>
</tr>
<tr>
<td>Fee Generation</td>
<td>70.00</td>
</tr>
<tr>
<td>Loss of Investment</td>
<td>97.68</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td>55,563.81</td>
</tr>
</tbody>
</table>
## Faculty and Staff Serving Osage County

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelsie Lineback</td>
<td>Interim Osage County Engagement Specialist</td>
</tr>
<tr>
<td>Allison Rieke</td>
<td>Youth Program Associate</td>
</tr>
<tr>
<td>Karen Thompson</td>
<td>Administrative Assistant/Bookkeeper</td>
</tr>
<tr>
<td>Others Serving Osage County:</td>
<td></td>
</tr>
<tr>
<td>Elizabeth Smith</td>
<td>Regional Director</td>
</tr>
<tr>
<td>Anita Ellis</td>
<td>Field Specialist in Livestock</td>
</tr>
<tr>
<td>Tanner Adkins</td>
<td>Field Specialist in 4-H</td>
</tr>
<tr>
<td>Kevin Lawrence</td>
<td>Nutrition Program Assistant</td>
</tr>
<tr>
<td>Lynda Zimmerman</td>
<td>CES in Nutrition and Health Education</td>
</tr>
<tr>
<td>Gatlin Bunton</td>
<td>CES in Agronomy</td>
</tr>
<tr>
<td>Charles Ellis</td>
<td>Field Specialist in Agricultural Engineering</td>
</tr>
<tr>
<td>Dave Hileman</td>
<td>Field Specialist in Human Development</td>
</tr>
<tr>
<td>Lauren Carter</td>
<td>Field Specialist in Business Development</td>
</tr>
</tbody>
</table>

21
Osage County

UM System Footprint in the county in 2020

FY20 county students

82 students
- 64 Undergraduates
- 18 Graduate and professional students
- 61 Full-time students
- 21 Part-time students
- 20 Pell grant recipients (aid year 2020)

County employees and retirees

38 people employed by UM
- 11 Campuses
- 26 UM Health Care
- 1 UM System
7 UM retirees and beneficiaries
UM salary and retirement income: $1.4 million
UM state tax revenue: $42,443
UM federal tax revenue: $201,414

County alumni

Selected school alumni
- 2 Medicine
- 18 Nursing
- 25 Health Professions
- 3 Dentistry
- 1 Pharmacy
- 11 Veterinary Medicine
- 84 Agriculture
- 76 Engineering
- 9 Law

Alumni teaching K-12
- 17 teachers
- 12.3% of all district teachers
- 2 principals and administrators
- 22.2% of all district principals and administrators

County breakdown

MU
- 61 students
- 368 alumni
- 10 employees

UMKC
- 2 students
- 8 alumni
- 0 employees

Missouri S&T
- 18 students
- 59 alumni
- 1 employee

UMSL
- 1 student
- 21 alumni
- 0 employees

County services provided

Health care (FY20)
- 1,595 in-state patients seen at UM Health Care, with $394,026 of uncompensated care
- 3 in-state patients seen at UMKC School of Dentistry with a statewide average of $56,94 per patient in uncompensated care
- University of Missouri Health Care's Missouri Telehealth Network recorded 1,091 visits to 854 patients having ZIP codes associated with the county

Extension (FY19)
- 4,722 Total educational contacts from MU Extension to residents of district counties, including:
  - 132 contacts related to productive farming, better gardening, and managing natural resources
  - 4,495 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
  - 95 contacts related to starting businesses, developing community leaders, or renewing the local economy

Construction projects
- $475 remitted to 1 county vendor, for 1 project

County properties and offices

MU Extension in: Osage County
Osage County

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 20,283 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 FY14 and FY19, UM System brought Missouri more than $1.09 billion in federal and private research funds, funded primarily from outside the state but spent within the state.

- In FY20, UM System was issued 42 patents and filed 41 new U.S. patent applications.

- In FY20, UM System construction projects resulted in a total investment in the state of $113.4 million.

   In FY20, Missouri Telehealth Network brought the expertise of University of Missouri Health Care physicians to underserved areas—45,057 visits from 35,640 patients from all 114 Missouri counties and the City of St. Louis

Education and Training Provided

- 72,581 police, fire fighters, and medical professionals attending continuing education (2018)

- Agriculture and natural resource programs served 138,921 farmers and related businesses (2019)

- 300,807 youth and stakeholder educational contacts in 4-H clubs, schools, camps and other programs (2019)

Education Highlights

FY20 Financial Aid Awards

<table>
<thead>
<tr>
<th>Institution</th>
<th>Number of Students</th>
<th>Financial Aid Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU</td>
<td>27,877</td>
<td>$482.3M</td>
</tr>
<tr>
<td>UMKC</td>
<td>11,320</td>
<td>$198.7M</td>
</tr>
<tr>
<td>Missouri S&amp;T</td>
<td>7,704</td>
<td>$130.4M</td>
</tr>
<tr>
<td>UMSL</td>
<td>9,824</td>
<td>$119M</td>
</tr>
</tbody>
</table>

UM System’s MOREnet (Missouri Research and Education Network) provides internet connectivity, access, support and training to 57 higher education institutions (255,000 students), 490 K-12 school districts (880,000 students) and 122 public libraries (serving nearly 3 million Missourians) in 2019

- UM System awarded 50.5% of the 31,708 Bachelor’s or higher degrees awarded by Missouri four-year public institutions in 2019–20.

- UM System awarded 41.1% of the 1,815 research doctorates and 27.8% of the 3,234 professional doctorates awarded by Missouri public and not-for-profit private institutions in 2019–20.

- In 2020, UM System’s $31.5 million in National Science Foundation (NSF) grants represented 88.6% 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 2020, 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 • UMSL • UM System • UM Health Care
• MU Extension • US Census Bureau • US Dept. of Health and Human Services • National Science Foundation

For more information, go to www.umsystem.edu/ums/sc/datasheets