December 4, 2017

Dear County Commissioners and Friends of MU Extension:

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

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

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

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

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

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

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

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

Sincerely,

Marshall Stewart, Ed.D.
Vice Chancellor for Extension and Engagement

University of Missouri, Lincoln University, U.S. Department of Agriculture and Local Extension Councils Cooperating

Equal Opportunity/ADA Institutions
Extension’s Program Guidance Comes from You

The University of Missouri Extension council and staff would like to thank the Jasper County Commissioners for their support and funding for programs. 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. County residents decide the direction of extension’s educational programming. Current emphasis areas in Jasper County focus on agriculture, business and workforce, children and teens, family life, home and garden, and nutrition and health.

University of Missouri Extension is a partnership of the University of Missouri campuses, Lincoln University, the people of Missouri through county extension councils, and the U.S. Department of Agriculture’s National Institute of Food and Agriculture. The mission of MU Extension is to “serve Missouri by extending the unbiased research-based knowledge and problem-solving resources of the University of Missouri and Lincoln University to focus on high-priority needs of people throughout the state.” The University of Missouri and Lincoln University are Missouri’s land-grant universities, charged by federal acts of Congress to deliver extension programs.

Current programming efforts statewide focus on agricultural profitability and viability; building family and individual strengths; building human resources; business, community and economic development; enhancing health and nutrition; environmental quality and stewardship; and youth development.

The contents of this report are a summary of the highlights of our educational efforts during the past year. We hope that this report provides a greater understanding about University of Missouri Extension programming efforts in Jasper County.

Submitted by,

Vickie Flenniken
Council Secretary

Peter Carter
Council Chair

Bob McNary
Co-County Program Director

Robert Balek
Co-County Program Director
University of Missouri Extension Contacts: Extension faculty and staff made 1,032 direct contacts and 34,231 indirect contacts in Jasper County during 2017. Of those, 293 were walk-in consultations and incoming telephone calls that were personally documented by support staff.

Testing Services: One hundred six lawn and garden soil samples, 127 agricultural soil samples, nine commercial soil samples, two manure samples, one compost, one special soil test, and two plant disease samples were submitted for testing.

MU Continuing Education Enrollment: This includes programs such as MU Direct, which is credit and non-credit continuing and distance education; MU Extension Fire and Rescue Training Institute; MU Extension Law Enforcement Training Institute; Office of Continuing Medical Education; Osher Lifelong Learning Institute; Missouri Training Institute; Veterinary Medical Extension and Continuing Education; Labor Education; and MU’s Nursing Outreach. There were 375 Jasper County learners in these programs.

Extension Leaders Honor Roll: Each year, extension leaders from across Missouri are recognized for their outstanding support of our programs. Their names are added to the Extension Leaders Honor Roll. Hal and Sheila Andrews and Randy and Charlene Roper received this award in 2017.

State Fair Farm Family: Dixie and Dave Rockers were among the 114 families honored during the Missouri State Fair’s Farm Family Day on August 14, 2017.

The Rockers were selected as the Jasper County Missouri State Fair Farm Family by the Jasper County Extension Council and local Farm Bureau.

Each year, the fair sets aside a day to recognize farm families from across the state who are active in their community, involved in agriculture, and participate in local outreach and extension programs such as 4-H and FFA.

Jasper County Association for Family and Community Education (FCE) provides programs and activities which pertain to the best development of family, home and community. Jasper County hosts three clubs, Jolli Neighbors, Les Femmes, and Merry Mixers.
**State Legislator’s Day**
State legislators Mike Kelley and Charlie Davis attended the State Legislator’s Day in the southwest region. In 2017, the event took place at the Southwest Research Center near Mount Vernon. Legislators were introduced to the programs and impacts of extension in the southwest region of Missouri.

**MU Extension on Hispanic / Latino Outreach Committee**
This committee works in conjunction with several organizations in education, employment and social agencies to bring opportunity to the Hispanic / Latino community in Carthage. This first year, the focus is on networking and determining a course of action. The committee is seeking grants to fund the development of an after-hours day care as well as agriculture-related job training for youth and adults.

Robert Balek was a member of the team that won the University of Missouri Extension Association’s Outstanding Program Award. The program cited was the Tomato School held in Joplin earlier in 2017.

Robert Balek represents extension on the Carthage Tree Board. This monthly horticulture-related meeting builds relationships within the community.

Robert Balek serves as a member of the Statewide Master Gardener Communications Team, which hosted a Master Gardener mini-conference in Columbia. Over 100 Master Gardeners gathered from across the state for the mini-conference.

**Joplin High School FFA Expo**
Joplin High School invited extension to the FFA Ag Expo again this year. A display on careers in horticulture was provided. Thousands of students were present at the event.

**Television interviews:** Television outreach consisted of twice-monthly interviews on KSN-TV’s “Living Well.” Talking points were on homeowner horticulture and upcoming events. Outreach is to the Joplin four-states area (MO, AR, KS, OK).

Two additional interviews on the Carol Parker Show were a collaboration between the horticulture specialist and nutrition program associates. One was providing information on different apple varieties and a recipe for sweet baked apple wedges. The other was similar, but for winter squash.

**Newsletters:** Local specialists contributed to a monthly newsletter, 4-H News and Notes, reaching over 220 Jasper County families. The newsletters are also available online at extension.missouri.edu/jasper.

Beef cattle educational information is included in regular news releases, a monthly Beef Newsletter, a weekly radio program on KKOW and occasionally a television news interview.

Extension specialists from across the region provided monthly articles for the Joplin Area Chamber of Commerce Newsletter. There are over 2,400 newsletters distributed monthly.

**Expanding Our Outreach with Media:** Jasper County began a Facebook page this year with 105 likes, and ended the year with 158 likes. The page is useful in announcing events, providing information, and displaying photos.

Jasper County 4-H is one of the supported agencies of the Carthage Area United Way.
Agriculture and Environmental Quality

Making a difference

Through MU Extension’s Agriculture programs, participants keep better farm records, are better prepared to identify crop and livestock problems, and increase farm production. This benefits others by providing increased tax base for public services, reducing the potential for water quality and other environmental impacts, and providing a more dependable and affordable food supply.

Horticulture

Achieving the Extension Mission through Volunteers

This online cohort course through the University of Minnesota is for the novice and experienced professionals who work with volunteers to enhance and deliver extension programs. It focuses on volunteer issues in 4-H and Master Gardeners by educating coordinators to:

- Build staff and organizational capacity around volunteer management and development
- Increase volunteer management competencies
- Build knowledge and skills to identify, recruit, select, and support volunteers
- Learn current volunteer trends and how they may impact programming
- Understand the organization’s philosophy related to volunteerism and develop your own philosophy

Integrated Management of Foliar and Soil-borne Diseases on Fruits and Vegetables: Host Resistance, Biological and Use of Cover Crops

This two-day symposium through Lincoln University, made possible by a Sustainable Agriculture Research and Education grant, explored the latest techniques for using organic certified methods for pest control in vegetables and fruits in Missouri.

Webb City Farmers Market First Thursdays

Extension was represented at the Webb City Farmers Market for monthly First Thursdays, which highlighted horticulture topics and programs for passers-by, as well as answering questions. Each month, several hundred visitors had the chance to interact with the displays and talk with extension personnel.

Seed Treatment Workshop

The workshop organized by the horticulture specialist and held in Webb City, introduced local produce growers and garden enthusiasts to the principles and practices in treating and storing seeds for better viability and germination rate. A dozen people participated in the workshop.

Scaling Up Your Farm Operation and Writing a Successful Specialty Crops Application

The Webb City Farmers Market, working with Jasper County Extension horticulture and other horticulture specialists in extension put on this workshop for local produce growers. Seven growers attended and learned how to write a Specialty Crops grant.

Midwest Winter Production Conference

A team of MU horticulture specialists, Webb City Farmers Market and Lincoln University presented this two-day conference in Joplin. Back by popular demand, this conference provided the opportunity for innovative farmers to expand fruit and vegetable production into the winter months. The conference featured national and regional presenters with hands-on experience in winter production. Around 100 people attended.
Farmers Market Sampling and Price Data Collection
Data collected at various farmers’ markets across the southwest region was submitted as part of a USDA grant through Missouri Department of Agriculture. “Assessing Sampling, Price Reporting as Farmers Market Vendor Marketing Tools” will identify how Missouri can expand a farmers’ market pricing tool, and determine the opportunities for creating that tool to ensure consumers have access to reasonably-priced, high-quality, local food. Twelve farmers’ markets were visited in the region for this project.

FFA Agriculture Education Day at MU Southwest Research Center, Mount Vernon
The Jasper County horticulture specialist assisted with FFA Ag Education Day for the Nursery and Landscape Contest. Approximately a dozen schools from surrounding counties attended.

Blackberry Production Workshop
A blackberry production workshop was held at the MU Southwest Research Center. Seven Jasper County residents learned about profitable commercial practices. As a result of this training, farmers examined their production practices, and took action to adopt blackberry production practices that enhance profitability. Farmers installed rotating cross-arm (RCA) trellis, and planted thornless blackberry cultivars.

Garlic Field Day
Fourteen farmers and gardeners attended a garlic field day in Oronogo. Farmers learned garlic production and adopted production practices demonstrated at the field day.

Good Agricultural Practices (GAPS) Training
A training for fresh product safety was held in Webb City for 17 farmers. Farmers learned how to minimize the risks of illness caused by microbial contamination of fresh produce. As a result of this training, farmers examined their production practices, and took action to change practices to minimize microbial contamination risk. Farmers developed on-farm food safety plans.

Missouri Blueberry School
Six Jasper County residents learned about all aspects of profitable blueberry production at the Blueberry School held in Springfield. Farmers used the skills gained at the conference to improve blueberry production practices, specifically in the areas of culture, pest management, and marketing. Farmers established new blueberry plantings.

Lincoln University Cooperative Extension Efforts
- MU Extension, in partnership with Lincoln University and Webb City Farmers Market, provided a Tomato School in Joplin. This two-day activity, funded partially by a USDA grant, attracted a hundred growers from several states for educational seminars and farm tours.
- Lincoln University, in partnership with MU Extension and several local organizations, initiated a Hispanic / Latino steering committee in Carthage to investigate opportunities for collaboration in community development for that population.
Master Gardener

The Master Gardener program in Jasper County started in 1992, and is still going strong. Since then, over 500 area residents have attended the annual training courses, and have donated over 56,586 hours of volunteer time within their local communities.

Ozark Gateway Master Gardeners contributed 2,614 volunteer hours in 2017 as well as an additional 368 education hours, for a total of 2,982 hours, making 2017 the most productive year on record for the Ozark Gateway Master Gardeners in Jasper County.

Volunteer projects included: beautification projects at churches, parks, schools, the Carthage Library, the Joplin Humane Society, the Carthage Humane Society, and agencies such as the Carthage C.A.N.D.O. Senior Center; community gardens in Joplin; a demonstration garden at the Wildcat Glades Conservation and Audubon Center; gardening projects with youth in the Webb City area; and donating garden produce and offering educational workshops at the Joplin Crosslines.

There were nine volunteers who completed their certification by donating 30 or more hours of volunteer service since completing their training program. In addition, 33 maintained their certification by donating at least 20 hours of volunteer service, plus completing at least six hours of continuing education during 2017.

Awards presented in 2017 were: Rookie of the Year, Bob Mitchell; Lou Ann Herron Community Service Award, Patty Compton; Coordinator’s Service Award, Lee Hickman; 1000-hour Lifetime Achievement Award, Eric Osen; Volunteer of the Year Award, Bev Sturgis; and Master Gardener Emeritus, Edie Sullivan.

Master Gardener Core Training

There were nineteen graduates from the Master Gardener Core training program in 2017. Thirteen, 3-hour sessions were offered, giving the participants some options for obtaining their 30 hours of training. Topics covered included an orientation to the program, plant growth and development, woody ornamentals, home lawn and turf, soils, plant diseases, insects, plant propagation, vegetables, pruning, herbaceous perennial flowers, home fruit production, and an orientation to working the local Master Gardener helpline.

Master Gardener Continuing Education

Ozark Gateway Master Gardeners hosted continuing education sessions provided by the horticulture specialist, including a Seed Treatment workshop in Webb City, Fruit Tree Pruning Seminar near Avilla, as well as the Blueberry School in Springfield, Tomato School in Webb City, and Blackberry Workshop in Mount Vernon.

Jasper County’s Master Gardener Helpline

Master Gardener volunteers operated a helpline three days a week from April to mid-August, answering lawn and garden questions. It was staffed by 11 Master Gardener volunteers who assisted 26 citizens by answering 31 questions and giving horticulture advice to callers and office walk-ins.

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**Annual Master Gardener Plant Sale a Success**

The Ozark Gateway Master Gardeners held their annual plant sale in Carthage in May.

Each year, the members gather plants from their own gardens and/or start plants from seeds to sell at bargain prices to eager gardeners. The proceeds of the sale are used to support various community projects sponsored by the organization, such as the Carthage Library Garden, a garden area at the Carthage C.A.N.D.O. Senior Center, a community garden project at the Joplin Crosslines, and a demonstration garden area at the Wildcat Glades Conservation and Audubon Center in Joplin. In addition, they provide training course scholarships to help lower the fees for new Master Gardener trainees.

![Ozark Gateway Master Gardener 2017 Plant Sale.](image)

**Master Naturalist**

The Master Naturalist program is a partnership between the Missouri Department of Conservation (MDC) and University of Missouri Extension. The Master Naturalist’s mission is to promote awareness and citizen stewardship of natural resources through science-based education and community service.

In 2017, the Chert Glades Master Naturalists reported donating over 3,100 hours of volunteer service valued at $74,834. The chapter reported 619 hours of advanced training with 46 active members.

**Festival of Eagles**

In 2017 the chapter hosted “A Festival of Eagles” in Stella, Missouri, the signature outreach program for the chapter. Several hundred kids and adults visited educational exhibits and displays as well as viewed eagles.

**Monarch-related activities**

Monarch butterflies and pollinators were also supported this year with the City of Joplin signing The Mayor’s Monarch Pledge. In addition to participating in many native plantings at local parks, members provided education at a Third Thursday event in Joplin, and hosted Sara Dykman the Butterbike lady during her journey south. Ms. Dykman presented at three local schools and one evening public event at Joplin Wildcat Glades nature center.

**Waterfest**

Master Naturalists had an exhibit at the Waterfest event at Joplin Wildcat Glades center where information was shared about local watersheds with kids and adults.
Carver Day
In July, Master Naturalists participated in Carver Day at George Washington Carver National Monument with a display about “critters in your backyard.” In September, at Carver’s Prairie Days, Master Naturalists exhibited “scavengers and their benefits.” Both Carver events were well attended with over a thousand attendees.

Bayer Feed a Bee Program
In 2017, the Chert Glades Master Naturalists chapter was awarded a $5,000 grant from Bayer Feed a Bee program to assist with restoration of three acres of glade habitat at the Redings Mill Bridge area. Over 34 members spent more than 700 hours working on the project in 2017.

Ongoing Community Service Projects:
- Habitat management at Missouri Department of Conservation (MDC) conservation areas
- Work with Missourians for Monarchs and other organizations on restoring monarch habitat
- Educational programs at George Washington Carver National Monument, Roaring River State Park, local schools and community groups
- Kellogg Lake Kid’s Day, Carthage, Missouri
- Missouri Prairie Foundation where seeds were harvested and assistance was given in trash removal from area prairies
- Stream Team clean ups and water quality monitoring
- Milkweed and seed collection and planting
- Native plant and forb planting at four Joplin parks
- Wildcat Glades Conservation Center—continued maintenance, assistance with native plant sales, and provided educational programs
- Redings Mill Glade restoration project

Agronomy

Jasper County Livestock and Forage Conference
The 2017 Jasper County Livestock and Forage Conference was held in conjunction with Jasper County Soil and Water Conservation District (SWCD) and Jasper County cattlemen. Sixty-one producers attended and heard relevant information to improve their operation. Topics covered in March were: “Noxious and Poisonous Weeds” and “Is Round Baleage an Option for Your Farm?”

Pesticide Applicator Training
The Private Pesticide Applicator Training involves the initial training and recertification of Missouri’s private pesticide applicators (ag producers). The need for training in the application of pesticides is of high importance due to both the legal requirements and a real need for technical knowledge. The University of Missouri private pesticide applicator program reaches into essentially each of Missouri’s one hundred fourteen counties to train farmers on the safe and proper use of agricultural pesticides on their farmlands, including restricted-use pesticides. Fifty-two producers attended the program to obtain or renew their license. In addition, six clients utilized a computer training program at the Jasper County Extension Center.

Livestock

The major livestock educational efforts in the southwest region involved beef cattle. The programs included: Show-Me-Select Beef Heifer Development and Marketing; Missouri Steer Feedout; On-Farm Beef Evaluation; Bull Breeding Soundness Exams; and Beef ReproGene Workshop.

A companion effort with other extension specialists involved working with forage production and utilization. Examples included fescue renovation; grazing schools; Ozark Empire and Missouri State Fair hay shows; and trouble-shooting a wide variety of mysterious poisonous weed problems.

Show-Me-Select Beef Heifer Program
The Show-Me-Select Beef Heifer program is used to stimulate wider use of technology in developing heifers from weaning to the late second, third stage of pregnancy. The program has been in existence since 1997 and features a sale of bred heifers in May and November.

In 2017, Goodnight Angus and Jerry Carnes, Carthage each consigned heifers to the sale. Buyers from Jasper county were: Kevin Schrock, Reeds; Larry Aschermann and Tucker Dunaway, Carthage; and Heath Cobine, Lavon Schrock and David Turner all of Sarcoxie.
Bull Breeding Soundness Clinic
Bull breeding soundness clinics were held in March and October to bring attention to the need for bulls to have at least an annual physical exam to make sure they’re capable of breeding females. This helps bunch the next year’s calf crop which makes for a more uniform offering at the market. The following producers took bulls to the Animal Clinic of Diamond for their exams: Mark and Patsy Bright, Sarcoxie; Bruce Thompson, Oronogo; Kevin Charleston, Reeds; and Martin Wagner, Pierce City.

A total of 441 bulls were examined at the clinics held in Diamond, Miller, Cassville, Clever, Aurora and El Dorado Springs. There were 93.9 percent bulls that passed the BSE. In past years the passing percent has been as low as 85 percent. During the clinics, livestock specialists gave body condition scores, soundness scores and visited with owners about buying bulls, expected progeny differences (EPD), genomic testing, and more.

All-breed Performance Tested Bull Sales
Extension livestock specialists work closely with the Southwest Missouri Beef Cattle Improvement Association and their All-breed performance tested bull sales. Our goal is to help both buyer and seller utilize objective data such as EPDs in buying and selling bulls. The association holds two sales, one in March and one in October at the Springfield Livestock Marketing Center.

Consignors to the October sale from Jasper county were: Heath and Paula Covey, Carthage and Mark and Patsy Bright, Sarcoxie. Both were first-time consignors. Buyers of bulls in 2017 were Tom Fix and Gary Wampler, Carthage as well as Tom and Mark Elliston, Carl Junction. Tom Elliston has bought 14 bulls through the sale dating back to 1983. Fix purchased three bulls in 2017 and a total of 11 since 2004.

Missouri Steer Feedout
The Missouri Steer Feedout gives cow-calf producers a chance to put as few as five steers in the feedout to learn how their steers perform in the lot and on-the-rail. Participants in 2017 from Jasper county were: Goodnight Angus, Top Notch Farms, and Larry and Janice Peters all of Carthage.

The steers are gathered at Joplin Regional Stockyards in June and November. A Missouri Department of Agriculture market reporter places a feeder cattle grade and a price on each calf. In November, the public was invited to learn about the program and let them hear what buyers think about each group of steers. The cattle are then sent to Iowa where they are fed from five to six months before they’re sold. Carcass and feedlot data is shared on each calf at the Feedout Finale in late June along with pictures of many of the steers as they neared slaughter time.

Additional beef cattle resources
Additional beef cattle educational information is included in regular news releases, a monthly Beef Newsletter, a weekly radio program on KKOW and occasionally a television news interview. A special Beef ReproGene workshop was held in Springfield in March. The Monett Beef Cattlemen’s Conference was in January. Each meeting attracted around 100 persons from the region.
Dairy

Missouri Dairy Team
The University of Missouri transdisciplinary Dairy Team works collaboratively to ensure dairy owners and managers are able to best maximize profitability through sound management practices.

The State of Missouri is a milk-deficit state. Meaning, the total volume of milk produced does not meet the demands of Missouri consumers. Additionally, dairy farms are valuable to the state of Missouri. The most recent assessment of economic impact concluded that dairy farms supported 3,680 jobs/year and added over $131 million to Missouri’s Gross Domestic Product.

It is necessary to equip this valuable audience with fact-based management tools to ensure longevity of our current dairy population. Throughout 2017, the dairy team worked to provide a diverse number of learning opportunities.

Heat Stress Field Day
The heat stress field day was an on-farm learning opportunity in Humansville, Missouri attracting 96 participants to discuss timely heat stress topics. Dairy cattle are extremely vulnerable to heat stress conditions in southwest Missouri, which results in decreased milk production in addition to damaging the genetics of the unborn calf in utero. Modest improvements in management during this time can have major impact on the future productivity of the herd. This field day was a partnership program with the Missouri dairy industry alliance and targeted as an opportunity to discuss the importance and the how to’s of managing heat stress.

Women in Dairy
Women in Dairy continued to meet monthly in the southwest region throughout the 2017 calendar year. The highlight of the programming year included the udder dissection and the robotic tour. Additional topics included: reproductive management, heifer development, College of the Ozarks field day and wreath making. One hundred seventy-six ladies met throughout the year.

Monett Dairy Day
One of two available milk co-ops changed the pricing dynamics of milk produced during the spring. Thirty-two dairymen participated in a timely discussion of how to enhance a producer’s profitability through specifically managing their spring milk production. Additionally, the topics built upon themselves allowing for an improved understanding of the federal milk marketing orders enabling dairymen to manipulate management practices to respond to their local milk markets.

Winter Dairy Day
Previously known as the Crane Dairy Day, the Winter Dairy Day serves an audience in and around Lawrence and Christian Counties. Eighteen producers came to learn about farm succession planning, low lignin alfalfa varieties and the top 10 benchmarks of profitable dairy farming. Additionally, producers heard from a panel of recent College of the Ozarks graduates about developing interest in dairy farming to college-aged students.

Ag Fun Day
A field day hosted by University of Missouri Southwest Center targeted students in the 3, 4 and 5th grade, with 150 participants. Topics discussed were the process of putting up hay and how to accurately sample the hay bale to determine quality.
4-H in Jasper County is a community of 232 youths building life skills, engaging in science and contributing to their communities.

4-H Connects Kids to a Higher Quality of Life

4-H youth are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. 4-H youth are engaged in programs anchored in science (Arnold, Bourdeau, & Nott, 2013).

A study from Tufts University reports that young people in “4-H far outperform their non-4-H peers” in developing the skills, leadership and interest in science and science careers that drive our nation’s future. In fact, 4-H’ers are more likely to pursue careers related to science, engineering and technology because they spend more time engaging in science programs (Lerner & Lerner, 2011). It is not surprising that 4-H youth are three times more likely to go into science related careers than similar peers (Lerner & Lerner, 2008).

MU Extension 4-H connects 5,176 young people to University of Missouri campuses. Being on campus is a predictor of youth going onto higher education (Dalton & St. John, 2016). 4-H youth are nearly twice as likely to go to college compared to their non 4-H peers (Lerner & Lerner, 2011).

The U.S. needs young people prepared to live and work in a world that no one can imagine—jobs that do not yet exist, using technology that has not been invented, and solving problems that have not yet been identified. In Jasper County, 232 4-H members were engaged in science-related projects and experiences.

Youth who earn a bachelor’s degree increase annual earnings by $2 million over their lifetimes (NACUBO, 2012). If 50 percent of the Jasper County youth participating in 4-H events on a college campus receive a bachelor’s degree, 4-H would help young people acquire $68,000,000 more of lifetime earnings.

Jasper County is growing future scientists. 4-H’ers are more likely to pursue future courses or a career in science, engineering or computer technology. Eight hundred twenty-five of Missouri 4-H members were enrolled in science related projects this past year.

References:


Jasper County 4-H

4-H Club Information
Jasper 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 aerospace and arts to veterinary science and sport fishing. Clubs also involve children and teens in community service, camping and educational trips. In 2017, there were nine 4-H clubs in Jasper County.

4-H School Programs
Jasper County 4-H school enrichment programs are short-term educational experiences that supplement learning in the classroom. Most are led by teachers or 4-H volunteers. The most popular 4-H school program in Jasper County is basic electricity, with 37 participants.

4-H Volunteers
Volunteers create, support and are part of the 4-H community. Missouri 4-H volunteers responding to a survey reported they contribute on average 100 hours per year. Based on average Missouri incomes, the contribution of Jasper County 4-H volunteers was worth more than $381,412 in 2017! More importantly, these adults serve as mentors for our youth, helping them transition into healthy adulthood, which is priceless. 4-H members were supported by 158 youth and adult volunteers.

Jasper County Teen Council
Teen council consists of 4-H members ages 12-18. These teens help with county and fun events, as well as service projects. Approximately 25 county 4-H members meet on a monthly basis.

4-H Council (Parents’ Association)
The Jasper County 4-H Parents’ Association is composed of club leaders, project leaders and parents of 4-H club members from every club in the county. Average attendance is 15. There must be more than half of the clubs represented for the association to transact business.

County Achievement Day and Fashion Revue
Members competed in demonstrations, judging, personal development, fashion revue, public speaking, and Clover Kid sharing. Twenty-nine members participated in 116 different project areas. Top members in fashion revue were Kelton AuBrey, Abigail Dumm, Livia Dumm, and Lacey Allen. Top demonstrators were Evelyn Gilbreath and Harmouni Cundiff.

Weights Work Wonders
This is a community service project created by the Jasper County Mt. Moriah 4-H Club clothing project group to provide inexpensive weighted blankets and vests for children affected by autism. When a child affected by autism becomes agitated or upset, lying under a weighted blanket or wearing a weighted vest helps the child calm down and regain control. Project members made 10 weighted blankets and two weighted vests for area agencies. The project group also made eight receiving blankets for Life Choices in Carthage.
Jasper County Youth Fair (JCYF)
The 2017 Jasper County Youth Fair had a total of 1,539 exhibits. Participants earned $6,799.20 in premiums. Entries included 116 beef, 26 dairy, 143 goats, 111 horses, 190 poultry, 91 rabbits, 80 sheep, 74 hogs, 548 4-H non-animal, and 156 FFA non-animal exhibits. There were 317 individual exhibitors this year.

The animals sold at the Market Sale brought a total of $141,490. There were 62 exhibitors who qualified for the sale. Animals sold were two market turkeys, four pens of market broilers, one rabbit meat pen, one beef feeder steer, one dairy feeder steer, 15 market steers, 16 market hogs, 10 market lambs, and 12 market goats. The Jasper County Fair Board keeps 10 percent of the market sale total to pay class premiums to all exhibitors. This year the fair paid $.30 per premium point.

University of Missouri—Legislative Day
This is an opportunity for alumni, faculty, staff, retirees, volunteers and other friends of the University of Missouri system to thank legislators for their past support and encourage their continued support by sharing examples of how the UM system and its campuses improve the lives of Missouri citizens. Jasper County 4-H organized a trip for their members and parents. Thirty-five 4-H members and parents attended. The group toured the Capitol Building, met with all Jasper County legislators, had their picture taken in the Senate chambers and was recognized by the House of Representatives.
Regional 4-H Events

Regional Achievement Day
The following 4-H members received a blue ribbon at Jasper County Achievement Day which qualified them to represent Jasper County at the regional event. Those competing were: **Demonstrations**: rabbits—Evelyn Gilbreath; dog—Laura Thorn; foods—Harmouni Cundiff; cake decorating—Hannah Andrews; clothing—Kelton AuBrey; public speaking—Jake Thorn and Marissa Thorn; and welding—Korbin Fast; **Personal Development**: Caleb Martin, Mikayla East, Lannah Cassatt and Garrett Egger; **Project judging**: poultry—Laura Thorn and Nathaniel Hudson; cake decorating—Hannah Andrews and Izzy Baldwin; swine—Evelyn Gilbreath, Sadie Ramirez and Lannah Cassatt; horse—Emily Egger and Tannah Cassatt; beef—Tannah Cassatt, Emily Egger, Garrett Egger, Nathaniel Hudson and Marissa Thorn; shooting sports—Korbin Fast, Sadie Ramirez; and Brett Rockers; foods—Cate Martin; photography—Izzy Baldwin; clothing—Kelton AuBrey; and **Public speaking**: Mikayla East and Brett Rockers.

4-H Welding Competition
The competition was held at Ozark Technical College with just under 20 competitors. Winning from Jasper County were junior division—Lane Allen, 1st place; intermediate division—Shem Miller, 2nd place, Tanner Kahl, 4th place, Luke Anibal, 5th place, and Seth Miller, 6th place; senior division—Sam Anibal, 3rd place.

Ozark Empire Fair
Seventy-four Jasper County 4-H’ers exhibited 168 non-animal projects at the Ozark Empire Fair. This resulted in 124 blue ribbons, 19 red ribbons, one overall grand champion, nine grand champion and four reserve champion winners. In addition, several members exhibited animals at the fair.
Southwest Regional 4-H Member and Leadership Camps
The camps held at Camp Smokey, Roaring River State Park, Cassville, were attended by 20 club members and two adult leaders from Jasper County. Most of those members are now serving as officers in their respective clubs.

Member/Leader Trainings
Making the Best Better and Bright and Bold are annual member/leader training workshops. The events provided workshops on leadership, public speaking and demonstrations, as well as project-related sessions. Certifications for volunteer orientation and Show Me Quality Assurance (SMQA) were conducted as well.

The goals of these trainings were:
- Youth and leaders develop improved knowledge of project materials.
- Youth and leaders develop increased skills in making decisions, speaking in public, thinking critically and solving problems.
- Youth and leaders develop increased capability to listen and to respect the opinions of other people.
- Youth and leaders develop increased skills to work in groups.

Members and leaders trained during 2017:
- Forty-one new adult leaders took the volunteer orientation in order to become certified 4-H leaders.
- Twenty-seven 4-H members were certified in Jasper County to show their livestock at fairs through the Show Me Quality Assurance program.
- Four hundred twenty-nine 4-H members and leaders were trained in 107 different project areas.

Regional Shooting Sports
The 2017 Southwest Missouri Regional 4-H Shooting Sports Contests were held at the Andy Dalton Range in Bois D’Arc, Missouri and in Polk County in the west central region.

Those competing from Jasper County were: senior division—Chis Bowles, Tyler Dunnic, Korbin Fast, Brett Pennington, Cole Quade and Sadie Ramirez.

State and National 4-H Events
State 4-H Fashion Revue
Representatives were selected during county fashion revue events. The State 4-H Fashion Revue is hosted by University of Missouri Extension. Members competing were: intermediate division—Livia Dumm, 2nd place clothes you make wool award and junior division—Kelton AuBrey, 4th place clothes you make.

Missouri State Fair
Members receiving blue ribbons at the Ozark Empire Fair may exhibit at the Missouri State Fair in Sedalia. One hundred fifteen Jasper County members exhibited at the State Fair. Hannah Andrews and Harmouni Cundiff gave demonstrations at the fair.
State Poultry Day
This is a youth training and skills demonstration event, a fun poultry quiz bowl and a production judging contest, including egg and carcass grading and laying hens placing. Jasper County 4-H members attending were Kaleb Bell and Mackenzie Bell.

State Hippology Contest
Hippology is an activity that can enhance learning for 4-H members by letting them exhibit their knowledge and understanding of equine science and husbandry in a competitive setting. Attending from Jasper County were junior division (overall 4th place)—Mackenzie Bell (4th place individual), Evelyn Gilbreath, Samantha Schenck, and Marissa Thorn. The senior team placed 5th overall. Members were Emilee Block (7th place individual), Isaiah Chandler and Emily Egger. Other members competing from Jasper County were Lannah Cassatt, Tannah Casatt, Mikayla East, Garrett Egger, Sydney Gold, August Haile, Hope Miller, Jayden Schenck, Jake Thorn, Jerry Watson, and Jessy Watson.

State 4-H Meats Judging Contest
The meat industry is an important component in Missouri agriculture. The Meat Identification and Judging Contest encourages 4-H members to develop skills and abilities needed to enter and advance in careers in the meat industry. These activities are designed to encourage the development of broader analytical skills, critical thinking, the use and understanding of appropriate meat terminology, and the evaluation of meat animal products to optimize economic returns not only to them as producers, but as consumers as well. Jasper County 4-H members who competed in the contest, hosted by MU Extension, included junior team—Luke Anibal, Garrett Egger, Austin Pope, and Brett Rockers. Senior team members were Sam Anibal, Emily Egger and Grady Weaver.

State Shooting Sports
Members enrolled in the Shooting Sports project may be selected to represent Jasper County by accruing points in local events. Members competing were: senior division—Chris Bowles, archery recurve freestyle, 2nd place and blue ribbons in compound release, 3D compound and American 600 compound; Brett Pennington, archery 3D compound, 2nd place, and blue ribbons in compound release and American 600 compound; Sadie Ramirez, .22 rifle standard open, blue ribbon; Aubrey Niess, .22 rifle standard open, blue ribbon; intermediate—Emily Bowles, archery. 1st place in recurve freestyle, 3D recurve, and American 600 recurve freestyle, and 2nd place recurve traditional; Tyler Dunnic, trap single, red ribbon; Cole Quade, trap single, red ribbon; and Korbin Fast participated in trap single.

State Livestock Judging Contest
First place junior and senior members are determined by scores they receive during the county contest. The State 4-H Livestock Judging Contest is hosted by MU Extension. Senior team members placed 3rd in competition and will travel to Colorado in January, 2018. Members were Sadie Ramirez, Jared Parrigon, Matthew Meyer and Savanna Fisher; and junior team members were Aubrey Block, Karli Buggs, Kallie Cloud and Seth Miller.
State 4-H Congress
This event was held in Columbia on the MU campus. Members participated in a variety of leadership, project and career workshops. Attending from Jasper County were Emilee Block, Isaiah Chandler, Hannah Miller, Sadie Ramirez, Lydia Rockers, and Kaylee Talken.

State 4-H Teen Council
Council members represent over 20,000 youth who participate in Missouri 4-H clubs. They play a major role in statewide 4-H event planning, advise on policy issues and help coordinate two major youth leadership conferences each year. State council members must be elected as representatives from their regions. Sam Anibal served the southwest region on the state council.

State Teen Conference
4-H members ages 11-13 took part in leadership, communication, and community service workshops, and toured the MU campus. Tannah Cassatt, Korbin Fast, Aubri Fisher, Caitlyn Garrett, Nathaniel Hudson, Luke Lage, Katherine Macy, and Brett Rockers attended from Jasper County.

Missouri Equine Tour
This year the tour headed to Oklahoma and Texas exploring the western equine world for teens dreaming of an equine-related career or aspiring to learn more about the horse world. Jasper County members on the 2017 tour were: Sami Bayless, Emilee Block and Isaiah Chandler.

State 4-H Foundation Scholarships
These scholarships are for high school seniors and current college students who are or have been 4-H members. There are over twenty $500 and $2,500 scholarships administered by the Missouri 4-H Foundation. Emphasis is on leadership and community service. One of these $1,000 scholarships is funded by Jasper County 4-H and was awarded to Hannah Rockers.

Missouri 4-H Foundation Frank Graham Volunteer Leadership Award
In recognition of Frank Graham, past director of Missouri 4-H Youth Programs, local volunteers can be recognized for their dedication to Missouri’s youth. Each county may honor one or two outstanding 4-H volunteers annually. Connie Cooper was recognized as this year’s recipient.

Connie has been involved in the Jasper County 4-H program for 27 years. She was a club leader for several years. She was also a project leader for several projects and is currently a dairy goat and gardening leader. She served several years on the Jasper County Parents’ Association board.

Connie has helped with numerous other activities such as the county livestock judging contest during the fair, achievement days and conference judging. She even helped with costumes and skits for the Share the Fun. As time permits she helps out the grandkids by working in the concession stand or monitoring the small exhibit building during the fair and is always an avid spectator watching the children at the county fair.
Missouri Extension 4-H Hall of Fame
“Making the Best Better” for generations of Missouri 4-H’ers, Larry Jackson of Reeds was inducted into the Missouri 4-H Hall of Fame on Aug. 19 at State Fair Community College in Sedalia.

Larry has served the Jasper County 4-H program for more than 25 years. He supports the Jasper County Youth Fair and is a driving force behind the success of the Jasper County 4-H concession stand. He has also been very involved with the Jasper County Youth Fair Herding Heroes program for youth with special needs. Larry is always willing to lend a hand, provide support and encourage 4-H members to do their best.

“The Missouri 4-H Foundation recognizes individuals who have created a legacy of service to 4-H by honoring them with membership in the Missouri 4-H Hall of Fame,” said Rachel Augustine, Missouri 4-H Foundation director.

These volunteers have played a vital role in helping our youth develop essential life skills that will empower them to become strong leaders in the 21st-century workforce. We are proud to honor their legacy of service to Missouri 4-H.

The annual event is sponsored by FCS Financial and the Missouri State Fair in partnership with the Missouri 4-H Foundation.

National Horse Judging
The difference between 4-H and many other horse-related opportunities is that the various competitions available focus first on youth development and “winning” a second goal. However, winning is also worthy when the team members put in the effort to succeed. This year Jasper County had the privilege of representing Missouri at The All American Quarter Horse Congress in Columbus, Ohio. It is the largest single-breed horse show in the world. Team members included: Emilee Block, Isaiah Chandler, Emily Egger and Grady Weaver. The team placed 17th overall, 16th in halter, 19th in performance and 21st in reasons. There were 34 teams from all over the United State competing.

National 4-H Congress
National 4-H Congress is a premier 4-H event held in late November in Atlanta, Georgia. Participant experiences include leadership, service and cultural opportunities. Jasper County’s Hannah Rockers was chosen to attend.

Hannah Rockers attended National 4-H Congress.
Focus on Kids (FOK)
Focus on Kids is a 2 ½-hour face-to-face program provided by University of Missouri Extension in collaboration with the circuit court system.

The purpose of Focus on Kids is to help parents learn how to nurture and support their children during and after separation and divorce. Specific goals include the following:

- Avoid putting children in the middle of parental disputes by encouraging divorcing parents to discuss differences and problem areas in a respectful manner or when children are not present.
- Encourage both parents to remain actively involved in the life of their child following divorce/separation (if it is healthy for the child).
- Provide research-informed suggestions of helpful parental behaviors related to transitions between households and discussing financial issues.
- Provide information on how divorce often affects children’s socio-emotional adjustment, and potential developmental differences based on children’s age and understanding.
- Provide research-based information and community resources related to human service agencies and other organizations that may be helpful to children and parents as they attempt to adjust to the process of divorce.

Each parent receives a take-home packet of information, including publications, book lists, websites, and a directory of parent resources. Twenty-four parents attended FOK in Jasper County during 2017.

Sample of parents' comments about the Focus on Kids program:
- “Wish I would’ve known this information when I first separated. I think I would’ve been able to help my son adjust easier.”
- “I liked the program. It helped me find ways to say things to my ex-spouse without causing a fight.”
- “This is a good program and it helped me realize how important the divorce is to the child, to be very patient with my child and to help him understand what’s going on.”
Nutrition

Cooking Matters
As part of the No Kid Hungry campaign to end childhood hunger in America, Share Our Strength's Cooking Matters teaches participants to shop smarter, use nutrition information to make healthier choices and cook delicious, affordable meals.

The participants in the six-week Cooking Matters courses are adults, teens and children who want to make healthy meals on a budget. They learn to shop smarter, use nutrition information to make healthier choices, and cook delicious, affordable meals.

During program year 2017, Cooking Matters courses were delivered to 68 youth contacts in Sarcoxie and five adult graduates in Carl Junction.

After attending the course, participants reported improved knowledge, skills, and understanding of maintaining a healthier dietary intake, using skills and recipes learned to improve their families diet, and using skills and knowledge to shop healthier and reduce food costs.

Stay Strong, Stay Healthy
Stay Strong, Stay Healthy—Level 1 is an eight-week strength training program for middle-aged and older adults. The program is designed to increase aging adults’ access to a safe, structured, and effective strength training program. At each session a prescribed set of eight upper and lower-body strengthening exercises are done. 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.

In Jasper county, 15 people participated in the Stay Strong, Stay Healthy program. University of Missouri Extension collaborated with local churches to offer the program to the citizens in the Carl Junction area.

When you support MU Extension’s Stay Strong, Stay Healthy program, participants increase their physical activity and may improve strength, balance and flexibility, resulting in reduced risk for falls, better overall health and greater independence. These health benefits decrease the likelihood of a participant entering a nursing home, which costs on average $51,465 per year in Missouri. The money saved benefits the community by keeping more discretionary income in circulation locally. It also keeps people actively and independently contributing to society longer.

Nutrition Basics—101
One hundred twenty students and two adults in Carl Junction High School physical education classes learned about the nutritional benefits of various macro and micronutrients.
Family Nutrition Education Program (FNP)

The Family Nutrition Program brought $9,681,129.00 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 838,295 Supplemental Nutrition Assistance Program (SNAP) recipients and eligible citizens of Missouri. There were 3,831,270 educational contacts. 2017 had 3,064,781 indirect educational contacts. Indirect contacts are reached through newsletters, health fairs, food pantries and the Show Me Nutrition help line.

Participants in FNP become more aware of nutrition, make healthier meal and snack choices, eat breakfast more often, are more willing to try new foods, increase their physical activity and in general make healthier food choices. Those who practice healthy eating and activity behaviors are more likely to enjoy a high quality of life as an adult and into old age. A healthy labor force is critical to attracting and keeping jobs in Missouri. In addition, this important programming effort serves to reduce healthcare costs over the participant’s lifetime, saving taxpayers money in reduced public healthcare benefits and insurance premiums.

During 2017, 3,197 youth and 28,942 adults were served through schools, community groups and agencies. The following is a list of the locations where participants were served in Jasper County:

- **Show-Me Nutrition Education Program**: a six-lesson program for pre-school through eighth grade. Topics included food safety, My Plate, physical activity, and food tasting. These classes were offered at North Joplin Head Start and Pumpkin Patch Daycare Center in Joplin; Sarcoxie Head Start; Webb City Head Start; Carterville Elementary; Carl Junction Primary 2-3 and Head Start in Carl Junction; and in Carthage at Fairview Elementary, Mark Twain Elementary, Steadley Elementary, Pleasant Valley Elementary, Columbian Elementary, Carthage Middle School, and Head Start. Classes were also offered at Central Elementary in Pierce City; and Miller Elementary.

- **Eating Smart, Being Active**: an eight-lesson nutrition curriculum for adults. This program was offered at Lovin’Grace, Independent Living Center, Community Support Services of Missouri, and Lafayette House in Joplin.

- **Show-Me Nutrition Education Displays** incorporate nutrition messages around a variety of relevant topics (such as Supersizing of America, Healthy Eating on the Run, Childhood Obesity, Nutrition and Learning, Facts on Fats, etc.). There are 20 distinct displays that are used along with a corresponding handout to educate adult audiences. These displays were utilized with audiences at St. Peter’s Outreach House, and City Health Department in Joplin; Helping Hands Ministries, Carl Junction; Freedom Fellowship Church Outreach Food Pantry, Sarcoxie; and Salvation Army in Carthage.

- **Healthy Change workshop**: a six-lesson nutrition curriculum. These are 20-30 minute lessons for food pantries that focus on label reading, changing to healthy habits, food safety, planning, changing shopping habits, and healthy celebrations. These workshops were offered at Harp’s Food Store in Joplin.

- **Getting Healthy through Gardening**: provides nutrition and gardening activities to increase consumption of fruits and vegetables. This workshop was held at Gateway in Joplin.
Recipe cards with healthy living tips are mailed monthly to over 1,200 clients of Soul’s Harbor, Forest Park Baptist Church, Ozark Center Turnaround Ranch, Community Support Services, Salvation Army, St. Peter’s Outreach, Stone Village Children’s Center, We Care of the 4 States, Independent Living Center, Lafayette House, Crosslines, and Boys and Girls Club in Joplin; River Street Food Pantry, Salvation Army and Crosslines, Carthage; Brothers in Need, Oronogo; Freedom Christian Fellowship, Sarcoxie; Helping Hands Ministries, Carl Junction; and The House and Samaritan’s Basket in Webb City.

Summer school, 2017: Approximately 200 students participated in “Eating from the Garden” which allowed students to raise a variety of their own produce. They were able to sample what they grew including an abundance of radishes, lettuce and spinach among other vegetables.

In addition to the numbers, nutrition program associate, Mary Ann Pennington shared these success stories demonstrating local impact:

“I taught a series of six lessons at Joplin North Head Start. When I was about halfway through I went in one of the classrooms and a little girl came up to me right before I started the lesson and was talking about the germ lesson that we had a couple of week before. She told me that since I had done the lesson and sent newsletters home about washing your hands, her family has been making a point to wash their hands. That is now what they all have to do before they ever sit down to eat.”

“I was able to get a six-week class set up in a little food pantry in Sarcoxie. The turnout was very good. I really had only expected to have two or three but had an average of fourteen to fifteen every class. One of the ladies came up to me after class had ended on the dairy lesson. She told me she was so glad I explained that you only lose the fat not the calcium when switching to low fat or skim milk. She told me her husband had been telling her for a while she should be using lower fat or skim milk but she didn’t really know why. She told me it all made sense now and she would be buying the lower fat or skim milk from now on.”

Gayle Fahrenbruch, nutrition program associate, shared this success story demonstrating local impact:

“At an elementary school where I taught nutrition during the academic year, we made vegetable wraps using spinach and baby carrots. This summer, I have been going to the same school teaching the garden curriculum called “Eating from the Garden.” I asked a class if they had made the spinach and carrot wraps that we previously tasted. Out of a class of 20, 14 students raised their hands to indicate that they made them at home. Some students said that their families had also eaten the wraps.”

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

Making a difference
When you support MU Extension’s Business Development Program, enterprising Missourians receive information and training to successfully start, run and expand businesses. This increased business activity creates jobs, increases consumer demand, promotes economic development and generates tax revenue for the public’s welfare.

Missouri Procurement Technical Assistance Centers (MO PTAC)
PTACs provide a wide range of assistance -- most free of charge -- to businesses through one-on-one counseling sessions, classes, seminars and matchmaking events. PTACs are funded through cooperative agreements between the US Department of Defense (DoD) and state/local non-profit entities. MO PTAC services include procurement counseling, automated bid matching, registration assistance, access to regulations, provision of government specifications, procurement histories, and assistance with bid preparation. Procurement specialists are located throughout Missouri, including in the Jasper County Extension Office.

In Jasper County the PTAC specialist worked with 46 unique clients in calendar year 2017, providing 163 service sessions, and provided eight presentations at which there were 152 attendees.

Reach out to your local PTAC for:
- Free help with System Award Management (SAM) registration and other government contracting issues
- One-on-one counseling tailored to the specific needs of your business – always free of charge!
- Workshops and seminars to teach you what you need to know and connect you with other small businesses
- Information on matchmaking events that connect you with agency buyers who need your product

Local PTACs help with government contracting topics such as:
- Determining suitability for contracting
- Securing necessary registrations
- Small Disadvantaged Businesses (SDB), 8(a), Historically Underutilized Business Zone (HUBZone) and other certifications
- Marketing
- Researching procurement histories
- Networking
- Identifying bid opportunities
- Proposal preparation
- Preparing for audit
- National Institute of Standards and Technology (NIST) SP 800-171 Compliance

Even after you have been awarded a contract, PTAC may be able to help with certain contract performance issues, such as:
- Production and Quality Systems
- Accounting system requirements, contract payments, and payment methods using the Invoicing, Receipt, Acceptance, and Property Transfers (iRapt) system
- Packaging and Transportation
- Subcontracting
- Property
- Interfacing with the agency

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

In Jasper County during fiscal year 2017, the MU Extension BDP served 719 people and their companies with business start-up and management counseling, training, and other assistance. In addition, entrepreneurs and business owners in Jasper County reported the following economic impact and activity resulting from services provided by the MU Extension BDP:

- $14,609,484 sales increase
- 226 jobs created/retained
- eight new business starts
- 196 clients/companies receiving business counseling
- 523 business training attendees and conference participants
- $90,368 government contracts (three)

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

- 198 new businesses
- 3,106 new jobs
- 3,675 jobs retained
- $478,772,408 sales increases
- $403,359,341 government contracts
- $4,004,375 in Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR) or research proposals submitted with $7,622,000 awards received
- $91,002,145 of loans and investments in business
- 3,458 clients/companies receiving business counseling
- 10,685 business training attendees and conference participants:

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

MO PTAC is part of the University of Missouri (MU) Business Development Program (BDP) Delivery Network

Business Development Specialists are headquartered at MU Extension centers; centers located on the MU campuses at Columbia, Kansas City, St. Louis and Rolla; and centers at most of the state universities across Missouri, including Missouri Southern State University in Joplin. Programs delivered through this network include:

- Missouri Small Business and Technology Development Centers (MO SBTDC)
  - Technology Development and Commercialization
  - Economic Gardening
- International Trade Center
- Missouri Procurement Technical Assistance Centers (MO PTAC)
- Mid-America Trade Adjustment Assistance Center
- Missouri Environmental Program
- BDP Workforce Program

More information about this network is available on BDP’s website: http://extension.missouri.edu/main/working4mo/business.aspx.
2018 IMPACT DATA

Jasper County

UM System Footprint in the County in 2017

Students
180 County students
- 143 Undergraduates
- 37 Graduates
- 157 Full-time students
- 23 Part-time students
- 54 Pell grant recipients (aid year ’17)

Employees and retirees
21 people employed by UM
- 16 Campus
- 3 UM Health Care
18 UM retirees and beneficiaries
UM salary and retirement income: $835,187
UM state tax revenue: $24,093
UM federal tax revenue: $111,830

Alumni
Selected school alumni
- 40 - Medicine
- 78 - Nursing
- 26 - Health Professions
- 50 - Dentistry
- 36 - Pharmacy
- 9 - Optometry
- 19 - Veterinary Medicine
- 92 - Agriculture
- 204 - Engineering
- 75 - Law
Alumni teaching K-12
- 34 teachers
- 2% of all county teachers
- 5 principals and administrators
- 7% of all county principals and administrators

Breakdown by campus

MU
- 87 students
- 669 alumni
- 16 employees

UMKC
- 41 students
- 255 alumni
- 0 employees

Missouri S&T
- 49 students
- 195 alumni
- 1 employees

UMSL
- 3 students
- 38 alumni
- 1 employees

Services provided

Health care
- 223 patients seen at UM Health Care, with $25,723 of uncompensated care
- 1 patient seen at the UMSL Center for Eye Care with an average of $52 per patient in uncompensated care
- 28 patients seen at the UMKC School of Dentistry with an average of $54 per patient in uncompensated care

Extension
- 47,363 total educational contacts from MU Extension to residents of county, including:
  - 204 contacts related to productive farming, better gardening, and managing natural resources
  - 45,783 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
  - 1,376 contacts related to starting businesses, developing community leaders, or renewing the local economy

Properties and offices

MU Extension in: Jasper County

Supporting the University of Missouri is an investment in the future of Missouri.
The university advances Missouri citizens and communities through its mission of teaching, research, public service, and economic development across our four campuses and University of Missouri Extension.

Prepared in December 2017, based on the best available and most recent data. Data Sources include: Missouri Office of Administration • UM IR • Office of Social and Economic Data Analysis (OSEDA) Center for Applied Research and Engagement Systems (CARES) • MU • UMKC • Missouri S&T • UMSL • UM System • UM Health Care • MU Extension • US Census Bureau • US Dept. of Health and Human Services • National Science Foundation

www.umsystem.edu
Jasper County Extension Council

Chairman
Peter Carter
Vice Chairman
Sherri Garvin
Secretary
Vickie Flenniken
Treasurer
Tom Flanigan

Elected Members
Debbie Carter
Crystal Gordon
Peter Carter
Barbara Hunter
Rosann Chapman
Gail Kreutzer
Bill Chapman
Karen Latimer
Debbie Cooley
Mary Jo Little
Mick Cooley
Bub Miller
Andrea Cullers
Sarah Miller
Vickie Flenniken
Sandy Swingle
Sherri Garvin
Dorothy Shull
Kyle Garvin
Steve Wardlow

Appointed Members
Dan McCreary
City of Joplin
Andy Cloud
City of Carthage
Clint Lambeth
City of Webb City
Tom Flanigan
County Commission
Carl Burton
Farm Bureau

Unique partnership
Jasper County’s University of Missouri Extension Council is a full partner with Missouri's land-grant universities to deliver high-quality education and research-based information that helps people solve real-world problems and take advantage of opportunities.

Council members
- work with extension specialists to provide the county with quality educational programs,
- manage finances of local extension operations,
- provide personnel to carry out extension activities, and
- elect and organize the local extension council.

2017 Jasper County Commission
John Bartosh
Presiding Commissioner
Tom Flanigan
Associate Commissioner (East)
Darieus Adams
Associate Commissioner (West)
University of Missouri Extension programs in Jasper County are funded by Jasper County, state and federal appropriations. Local funding for support of the Jasper County Extension Center is provided by the Jasper County Commission. The commission provides office space, funds for office expenses, clerical salaries, and travel expenses of extension specialists who conduct educational programs in Jasper County.

**University of Missouri’s Contribution to County Extension Program**

The University of Missouri provides salaries and benefits for three professional and two para-professional staff members headquartered in Jasper County. The university provides in-service training expenses, including travel and lodging for faculty and staff, communications, and funds for computer equipment costs and maintenance.

**Statewide Extension**

**Budgeted Sources of Funding**

- **$22.3** Gifts and Contracts
- **$13.2** Other
- **$6.0** County
- **$10.8** Federal
- **$26.3** State and University allocation

Numbers shown in millions

**MU Extension**

budgeted sources of funding

Total

$78,608,900

**University of Missouri Extension**

**Jasper County**

**Annual Financial Report**

**Year Ending 2017**

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<td>4300 - Rent/Lease Space</td>
<td>25.00</td>
</tr>
<tr>
<td>5100 - Supplies/Services</td>
<td>18,424.68</td>
</tr>
<tr>
<td>5600 - Professional Services</td>
<td>680.00</td>
</tr>
<tr>
<td>6400 - Other Contract Services</td>
<td>1,445.00</td>
</tr>
<tr>
<td>6800 - Insurance</td>
<td>1,662.25</td>
</tr>
<tr>
<td>7000 - Miscellaneous Expenses*</td>
<td>16,472.82</td>
</tr>
<tr>
<td>7010 - Extension Council Election</td>
<td>100.00</td>
</tr>
<tr>
<td>7100 - Test Services Expenses</td>
<td>2,646.00</td>
</tr>
<tr>
<td>7200 - Publications for Resale</td>
<td>1,020.50</td>
</tr>
<tr>
<td>7300 - Repairs/Maintenance</td>
<td>3,000.00</td>
</tr>
<tr>
<td>7999 - Fee Generation Distribution</td>
<td>6,966.75</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>$109,323.54</strong></td>
</tr>
</tbody>
</table>

Revenue less Expense $76,685.83

*Miscellaneous income and expenses reflect Master Gardener, Master Naturalist and 4-H activities, account transfers, copies, publishing and printing.*
Faculty and Staff

Headquartered in Jasper County

Bob McNary
4-H Youth Specialist
Co-County Program Director

Dr. Phyllis Behrens
Field Specialist, MO PTAC

Virginia Bryan
Administrative Assistant

Robert Balek
Horticulture Specialist
Co-County Program Director

Mary Ann Pennington
Nutrition Program Associate

Dixie Rockers
Administrative Assistant

Gayle Fahrenbruch (retired)
Nutrition Program Associate

Bob McNary
H Youth Specialist
Co-County Program Director

Jay Chism
Regional Director

Jeff Barber
Housing and Environmental Design Specialist

Reagan Bluel
Dairy Specialist

Jill Scheidt
Agronomy Specialist

David Burton
Civic Communications Specialist

Bob Schultheis
Natural Resource Engineering Specialist

Eldon Cole
Livestock Specialist

Lindsey Stevenson
Nutrition and Health Education Specialist

Terri Fossett
Family Nutrition Program Project Director

Ken Surbrugg
Business Development

Dr. Kathy Macomber
Community Development Specialist

In addition to our regional extension faculty, local individuals and businesses can receive assistance through the Small Business and Technology Development Center (SBTDC) located on the Missouri Southern State University campus. The director is Lisa Robinson.

Other Regional Faculty Serving Jasper County

Jay Chism
Regional Director

Reagan Bluel
Dairy Specialist

Eldon Cole
Livestock Specialist

Terri Fossett
Family Nutrition Program Project Director

Dr. Kathy Macomber
Community Development Specialist

Jay Chism
Regional Director

Reagan Bluel
Dairy Specialist

Eldon Cole
Livestock Specialist

Terri Fossett
Family Nutrition Program Project Director

Dr. Kathy Macomber
Community Development Specialist

Jay Chism
Regional Director

Reagan Bluel
Dairy Specialist

Eldon Cole
Livestock Specialist

Terri Fossett
Family Nutrition Program Project Director

Dr. Kathy Macomber
Community Development Specialist
Gayle Fahrenbruch shared information on how to stretch food dollars at a Jasper County supermarket.

Lincoln 4-H members cleaned up roadway as part of their Community Service project.

4-H members showcase their animals for patients at Carthage Health and Rehabilitation.

Ozark Gateway Master Gardeners gathered produce at Crosslines in Joplin.

Master Gardener workday at Wildcat Glades.

Sarcoxie Chiefs 4-H Club foods project dinner.

Mt. Moriah 4-H members caroling at St. Lukes in Carthage.

4-H Christmas Parade float.

State 4-H Fashion Revue.

State 4-H Horse Show competitors.

Forest Mill Friends 4-H recycles at the Jasper County Youth Fair.

4-H members competed at the State 4-H Horse Show.

Sarcoxie Chiefs 4-H Club foods project members.

Spring River 4-H project demonstration.

4-H Day at Silver Dollar City.

Lincoln 4-H project demonstration.

Gayle Fahrenbruch shared information on food safety at a National Breast Feeding event in Jasper County.

Mary Ann Pennington presented a “Eating Smart, Being Active” program at the Sarcoxie Library.

Forest Mill Friends “Stuff the Bus.”

JCYF Royalty candidates.

JCYF Royalty candidates.