

## County Specialist Receives Distinguished Service Award

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Natural Resource Engineer Jim Crawford received the Distinguished Service Award (DSA) from the National Association of County Agricultural Agents (NACAA) during their summer Annual Meeting and Professional Improvement Conference in Little Rock, Arkansas. DSA recipients are selected from the top 2 percent of the state membership in the organization.

The Distinguished Service Award is presented to members who have served at least 10 years as members of the Cooperative Extension Service, who have conducted outstanding programs, are held in high esteem by their fellow workers, and are approved by their State Director of Extension. Recipients are actively involved in the improvement of the Cooperative Extension profession and participate in the affairs of the State Association and constructively support its program.

Crawford joined the University of Missouri Extension in January of 2000 as a regional engineer headquartered in Atchison County. He currently serves as regional engineer for 26 counties in northwest Missouri as well as the county program director for Atchison County. In 2003 the role of superintendent for the MU Graves-Chapple Research Center was added to his responsibilities.



*Jim Crawford receives his plaque from NACAA President Cynthia Gregg as the 2016 Missouri Distinguished Service Award recipient.*

Jim provides leadership in many programmatic areas including energy conservation and renewable energy, no-till farming, waste management, farmstead planning and safety. A recent focus is providing education on the benefits of cover crops. He also serves as secretary for the Atchison County Soil and Water Conservation District as well as Vice-Chair for the Northwest Missouri Living Center. Jim has previously served as secretary, vice-chair and chair for the Missouri Association of Agricultural Professionals which is the Missouri chapter of the NACAA.



## VICE CHANCELLOR'S OFFICE

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January 5, 2017

Dear County Commissioners and Friends of MU Extension:

The past year was a busy one for University of Missouri Extension. As a long-time extension professional and newcomer to Missouri, I have found the support from people like you to be remarkable. Missouri is a special place with a promising future.

Through the efforts of faculty, staff and amazing volunteers, MU Extension connects millions of Missourians with knowledge they put into action in their daily lives. Using a range of learning experiences, we reach people of all ages and backgrounds, in every corner of the state.

In response to direct input received from local councils and the unique nature of each county, extension programs vary slightly across the state. This strength of local flexibility and public engagement enables county-based Mizzou faculty to provide local learning experiences that improve lives and community vitality. For example:

- MU Extension business specialists helped local Missouri businesses achieve sales increases of \$186 million while creating or retaining 7,766 jobs.
- Helping assure access to health care in local communities, MU Nursing Outreach made it possible for 2,094 nurses keep their skills up to date.
- Our 4-H youth development specialists and other extension team members worked with volunteers and community leaders to reach 269,000 youths ages 5 to 18 across the state.
- Anticipating the needs of Missouri's aging farm population, extension faculty developed workshops that target estate planning, succession and retirement planning specific to farmers.

These are just a few examples of how Mizzou's commitment to extension and engagement benefitted Missourians this past year.

In the interest of better serving Missourians, we are conducting a statewide needs assessment. It will include extensive input from local communities and stakeholders. It will result in stronger alignment between extension programs and local needs.

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

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

Sincerely,

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

Marshall Stewart, Ed.D.  
Vice Chancellor for Extension

Dear County Commissioners and Residents of Atchison County,

We are pleased to present you with a copy of the 2016 annual report compiled by the Atchison County Extension Council. This report is a brief overview for some of the educational programs conducted by extension specialists for the citizens of Atchison County. This annual report is not intended to give the full scope of all activities in the county. It is an attempt to provide information regarding the major programming efforts to provide educational programs to serve the needs of Atchison County residents.

University of Missouri Extension has had a long and proud history in Atchison County. Early records show the first Extension worker began in Atchison County in 1917 and there has been continuous representation in the county since the spring of 1919.

The Atchison County University of Missouri Extension council and staff would like to thank the Atchison County commissioners for their support and funding for programs during this past year. In turn, the council and staff remain committed to improving people’s lives by helping them meet the opportunities and challenges of the 21<sup>st</sup> century with research-based education and information. We do this by focusing programming efforts on local issues identified in county deliberative group sessions.

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 success of MU Extension programming in Atchison County would not be possible without the help and support of individual volunteers, groups, organizations, businesses, local and county government officials, and the research-based information provided by the land-grant university system.



We appreciate the continuing support that has been provided to extension as we work to enrich people’s lives. We hope that this report provides a greater understanding about University of Missouri Extension’s programming efforts in Atchison County.

Respectfully,

Dallas Hurst  
Council Chairman

Jim Crawford  
County Program Director  
Regional Natural Resource Engineer

Amie Schleicher  
Regional Livestock Specialist

Jerry Baker  
Regional Community Development Specialist

Samantha O’Riley  
4-H Youth Associate

Janet Linville  
Office Manager

# Missouri Century Farms



The University of Missouri Atchison County Extension Council is pleased to honor five Missouri Century Farms this year. The 2016 honorees are Patricia Broermann Laur of Westboro; Griffin Farms Partnership of Rock Port; Roseann & Keith Nemyer of Fairfax; Daniel and Mildred Shaw of Westboro; and Suzanne Southard of Fairfax.

Patricia and George Laur’s century farm, which is 80 acres, was originally purchased in 1909 by grandfather Henry Broermann.



*George and Patty Laur hold their Century Farm certificate along with MU Extension Council Chair Dallas Hurst and Missouri Farm Bureau State President Blake Hurst. (Photo by Atchison County Mail.)*

Griffin Farms Partnership which consists of 25 partners with the original acquisition consisting of 160 acres by James and Susan Griffin in 1869.



*Stan and Janet Griffin, with their certificate, along with MU Extension Council Chair Dallas Hurst and Missouri Farm Bureau State President Blake Hurst. (Photo by Atchison County Mail.)*

Suzanne Southard nominated the farm that has been in the family since the late 1800’s. The farm consists of 120 acres of which the original 80 acres was purchased by her paternal great-grandparents, James W. and Elizabeth A. Ball.



*Lisa Mitchell, Gena Mitchell, Roger and Suzanne Southard holding their certificate along with MU Extension Council Chair Dallas Hurst and Missouri Farm Bureau State President Blake Hurst. (Photo by Atchison County Mail.)*

*(Continued on Page 5)*

## Missouri Century Farms *(continued)*

Daniel and Mildred Shaw's century farm consists of 80 acres and was originally acquired by grandparents Christopher and Minnie Oswald Klump in 1916.



*Mildred and Daniel Shaw hold their century farm sign in the Velma Houts Fair Building.*

Roseann and Keith Nemyer's century farm is 78 acres and was originally purchased by Solomon Green, great, great grandfather of Roseann in 1866.

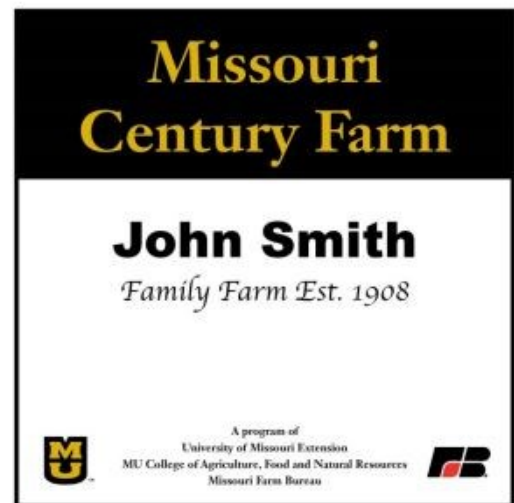
You will see quite a number of the Missouri Century Farm signs in Atchison County. Guidelines used in selection include: same family must have owned the farm for 100 years or more as of December 31 of the current year, the family shall consist of direct descendants (if in corporation or partnership, one of the principal stockholders must be a direct descendant), and the farm shall consist of no less than 40 acres of the original land and shall make a financial contribution to an overall farm income.

The Missouri Century Farm program's history dates back to 1976 as a result of the Missouri Committee for Agriculture. The committee's purpose was to organize the American Revolution bicentennial celebration in Missouri. One activity that was initiated by the committee was the "Centennial Farm" project which awarded certificates to persons owning farms that have

been in the same family for 100 years or more. A total of 2,850 Missouri farm owners in 105 counties were recognized as Centennial Farm owners. Since Missouri began the program in 1976, more than 8,000 century farms have been recognized.

In 2008, the Missouri Farm Bureau joined MU Extension and the MU College of Agriculture, Food and Natural Resources as a program sponsor. "Missouri Farm Bureau is a proud partner in the recognition of century farms," said Blake Hurst, president. "We applaud the hard-working farm families that have kept us fed and clothed for generations. They represent an important part of our heritage and laid a foundation for the bounty Americans enjoy everyday."

There are currently over 125 Missouri Century Farms recognized in Atchison County. If you are interested in having your farm designated as a Missouri Century Farm, contact the Atchison County MU Extension Center in the spring of 2017 for application forms.



## Programs for Agricultural Producers

### Show-Me Quality Assurance (SMQA) training for 4-H members

4-H youths enrolled in livestock projects are required to complete the Show-Me Quality Assurance (SMQA) certification. The program teaches food quality assurance and includes fun, hands-on activities. Amie Schleicher, regional livestock specialist, taught a session at the Velma Houts Fair Building in Rock Port on March 21. Ten 4-H members attended along with several parents. Food safety is a major concern for consumers and this program teaches our youngest livestock producers how they play an important role in ensuring that the meat they produce is a safe and wholesome product. A comparison of pre- and post-tests indicated an improvement in knowledge of the key concepts.

Those who couldn't attend the face-to-face training had the option of completing the training online. A total of 21 4-H members were trained in SMQA in the 2015-16 4-H year.

### **Regional MU Extension programs attended by Atchison County livestock producers**

Three-State Beef Conference—January 13, Albany—at the 31<sup>st</sup> annual conference, producers received the latest information on the veterinary feed directive; cover crop establishment, forage yield, forage quality, and animal performance; and converting row crop ground to pasture: the process, the cost, and what is the best land use of your farm

Atchison County Ag Update—January 22, Rock Port—presentations by all regional ag specialists covering the county, including a discussion on “Changes to Antibiotic Labeling: Veterinary Feed Directive”

Small Acreage and Land Entrepreneur (S.A.L.E. conference)—April 2, St. Joseph—a wide variety of topics of importance to acreage owners, including considerations when raising livestock in an urban setting

Focus on Forages meeting—August 4, Albany— forage production is a popular topic with producers and the 8<sup>th</sup> annual meeting included a tour of the forage demonstration plots comparing “forage systems”, novel endophyte tall fescue varieties, and cool-season grasses including Kentucky-31 tall fescue, orchardgrass and smooth brome grass; economic comparison of several forage systems; reading and interpreting mineral tags; balancing forage yield and forage quality; and the spray/smother/spray technique for renovating forages

Beef Producers Seminar—November 5, Maryville—this program has been offered for several decades and its focus in 2016 was on practical applications of reproductive and genetic technologies, which included live animal demonstrations chute-side on ultrasound pregnancy checks and ultrasound fetal sexing; a presentation on genetic sampling and useful interpretations; and the latest information on the veterinary feed directive (VFD)

### **Opportunities for engaging with the public about agriculture**

Fairfax Elementary Ag Day—May 3, Fairfax—the Fairfax FFA chapter invited local experts to speak on a variety of topics related to ag safety for all of the Fairfax elementary students; this included a station on animal safety, and students got to learn about a number of different animals

What's in Our Big Back Yard—September 17, Corning—at this second annual event at the MU Graves-Chapple Research Center, youth and adults had the opportunity to see a ruminally-cannulated cow from the University of Missouri, used for ruminant nutrition research at MU to continually improve the nutritional management of our beef cattle; this was part of an overall effort to educate and interact with the public about agriculture

## Youth Learn About Technology in Agriculture

Two hundred fifty-six high school students and 29 teachers/chaperones from seven area schools attended the annual Student Ag Day at the Graves-Chapple Research Center on September 16. A rainy morning resulted in an additional five schools not attending. The goal for the event is to show some of the various aspects of agriculture to demonstrate to our youth there are many career opportunities in agriculture and that agriculture is more than just raising crops and livestock.



*MU Extension Regional Agronomy Specialist Wayne Flanary shows a sample of a cover crop to the students and explains the value to the farmer and the environment that they provide.*

Each learning station was designed to provide hands-on learning opportunities for the students on some of the cutting-edge technology and practices used in today's agriculture and how it affects their everyday lives.

The learning stations were:

- ⇒ Demonstrating the digestive tract of cattle using a cannulated cow
- ⇒ Beef quality assurance
- ⇒ Energy efficient lighting
- ⇒ Agricultural entrepreneurship
- ⇒ Representative from MU with opportunities in ag at MU
- ⇒ Composting products we use every day
- ⇒ The benefits of cover crops

- ⇒ Importance of monarch butterflies and their habitat restoration
- ⇒ Field tour highlighting some of the research at the center

A lunch of hotdogs and hamburgers was provided by the research center and local area businesses, and prepared by the Rock Port Rotary Club. Volunteers from the Atchison County MU Extension Council helped serve the meal.



*Under the close supervision of MU Extension Regional Livestock Specialist Amie Schleicher, a student explores the rumen of a cow using the implanted cannula. By exploring the rumen, students gain a better understanding of how the multiple stomachs of a cow digest food.*

All the participants were asked to complete a questionnaire after the event to gauge their understanding of the topics both before and after the event using the following scale: 1 - no knowledge, 2 - some knowledge, 3 - average knowledge, 4 - above average knowledge, 5 - excellent knowledge.

The average score before the field day was a 3.1 and after was a 3.9, which is a 25% increase in knowledge of the topics after the event. This indicates a good transfer of knowledge occurred during the workshop.

## Atchison County 4-H

Eighty youth members and nine adult leaders were active in the Atchison County 2016 4-H program. These youths and adults participated within four county 4-H Clubs: Lucky Clover Club in Rock Port, Atchison County Robotics Club in Rock Port, Farmer's City Club in Tarkio, and Wolverine Club in Fairfax. 4-H club and county involvement offers long-term educational experiences in which members learn life skills such as decision-making, public speaking, and working with others. 4-H youth are equipped with the knowledge, skills, attitudes and health for the 21<sup>st</sup> century workforce. Missouri 4-H members spend more of their leisure time than peers engaged in projects of interest anchored in science (Khan, 1989). It is no wonder, 4-H members are three times more likely to go into science-related careers than similar peers (Lerner and Lerner, 2008).

4-H youth are more connected to college campuses and faculty than their friends. MU Extension 4-H connects 8,700 young people to University of Missouri campuses. Being on campus is a predictor of youth going onto higher education (Hoover, 2006). 4-H youth are nearly twice as likely to expect to go onto college (Lerner and Lerner, 2011).

Youths who earn their bachelor's degree, increase annual earnings by \$2 million over their lifetime (NACUBO, 2012). If 50% of the 80 members participating in 4-H events on the MU campus go on to earning a bachelor's degree, 4-H would help young people earn  $80 \times 0.50 \times @ \$2,010,000 = \$80$  million more of lifetime earnings.

Missouri 4-H is growing future scientists. Young people that are engaged in 4-H are three times more likely to be interested in pursuing science-based careers than their non-4-H peers. Our nation 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, solving problems that have not yet been identified. In Atchison, 80



*Sam O'Riley, 4-H youth program associate, discussing poison control with two elementary students.*

members were engaged in a total of 270 projects. In the science and technology studies we had 95 in project areas such as biological science, consumer and family science, environmental education and earth science, and plant science. Youth were enrolled in other project areas as well, such as 85 in animal, 53 in communications and expressive arts, 12 in foods and nutrition, and 4 in health.



*Proud participant showing her horse at the fair.*

The Atchison County 4-H Achievement Day was held in July, as well as a horse show, alongside the Atchison County Fair. This event offers project exhibits, conference judging, general demonstrations, working demonstrations, public speaking, fashion revue, and talent. Twenty-four 4-H members exhibited

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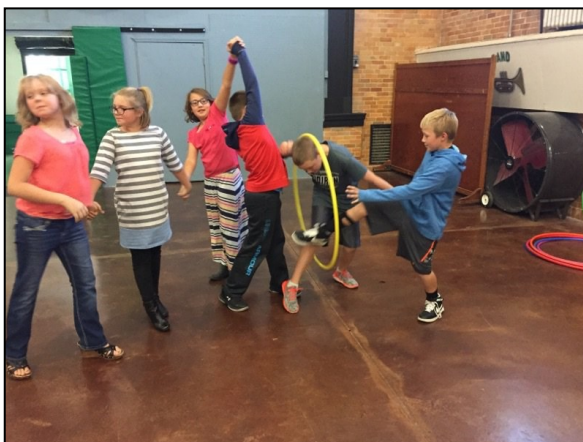


## Atchison County 4-H *(continued)*

a total of 120 projects. Fifty-seven blue ribbons, 17 red ribbons, nine white ribbon were awarded, and 10 Clover Kid awards. Of the 57 blue ribbon exhibits, 37 were awarded state fair ribbons and the opportunity to represent Atchison County in the 4-H Building of the Missouri State Fair in Sedalia, Missouri.

For the second year Atchison County has had school enrichment programming called "Take A Stand." This program is designed to help youth learn how to stop bullying before it happens by respecting themselves and others with skills they learn. Communication, teamwork, manners, cultural awareness, and problem solving are all skills that the youth learn to help themselves and their friends in everyday situations. The youth like the program because it is fun and they learn different approaches to bullying that they may not have already learned. This year 189 students were served with the "Take A Stand" program at Fairfax and Tarkio schools.

Atchison County is hosting a workshop monthly after school that is open to the public as well as 4-H youth. Topics covered this year were Cake Decorating, Clover Kids Watermelon Day, Cross Stitch, Science Night, Kids in the



*Students participating in a team-building exercise during their "Take a Stand" enrichment program.*

Kitchen, and Wreath Making. Youth come and pay only for materials as needed and they are able to learn how to make different things as well as learn new skills. The workshops are held in a different town each month so all youth are given the opportunity to attend.



*Everyone is helping to mix the batter.*

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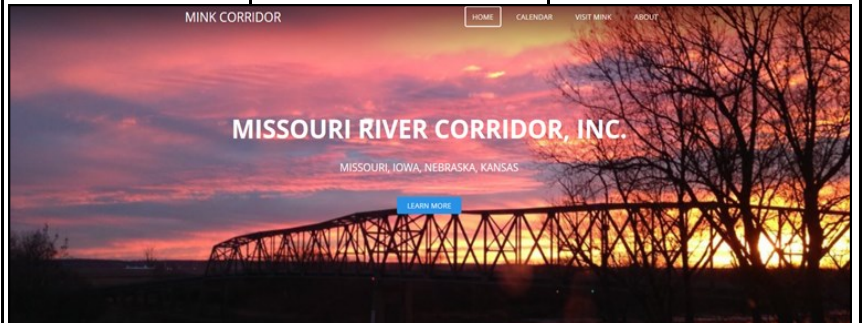
# Promoting Tourism and Agricultural Product Marketing

Learners	Marketing in Rural Northwest Missouri	What Did They Learn?	How Did Participants Benefit?	How Does This Make NW Missouri Counties Better?
<p>The student field day at the Graves-Chapple Research Center had 256 students and 29 adults from seven school districts attend the session on tourism and ag product marketing.</p> <p>The students and their supervisors were from schools within the regional area.</p>	<p>The concepts of product marketing also can be a part of agritourism development.</p> <p>The region has two major highway systems that enables easy accessibility to the various communities.</p> <p>Visualizing how product is displayed, how it is explained and valued is an important piece of selling the community and the product to the consumers.</p>	<p>When participants begin to develop a strategy on how to market their community or their products, a simple business plan is needed. Online resources from MU Extension were included in a handout to the attendees.</p> <p>In addition, the regional extension horticulture and agronomy specialists were recommended as an immediate contact resource.</p> <p>Various MU Extension web listings were also provided that related to growing the product and marketing strategies. Real life examples were displayed and explained.</p> <p>The use of electronic media to market both product and place was emphasized.</p>	<p>Product and agritourism promotion is a growing marketing concept in the local region. This four-state corner of Missouri has development opportunities for both product and agritourism promotion.</p> <p>Participants reviewed how to evaluate their site as a “safe place” for all customers.</p> <p>In today’s marketplace, customer safety is a priority and a concern. Examples illustrated “what not to do” when setting up a farmers market display or when welcoming customers to the agritourism site location.</p> <p>Participants benefited by reviewing marketing, social media and safety issues.</p>	<p>The attendees from the the regional area learned how to display product, what to say and not say, and ways to safely market products and site visits.</p> <p>Some attendees indicated their families are not “gardeners” and they learned from the session about products that are home-grown and sold through grocery stores in the region.</p> <p>Almost 100 percent of the attendees had seen one or more of the displayed products on store shelves. The products were from vendors who grew the product and then placed their product into the various regional markets.</p> <p>The emphasis was “You can also do this!”</p>



## Asset Development and Area Promotion

Learners	Collaborative Programming	What Did They Learn?	How Did Participants Benefit?	How Does This Make NW Missouri Counties Better?
<p>Members of the MINK Missouri River corridor, Inc., meet quarterly within the four-state region.</p> <p>The four standing committees hold workshops and discussions on housing, transportation tourism and business development.</p> <p>All MINK members and guests meet quarterly and continuously invite partners in communities to attend the sessions.</p>	<p>In the four-state areas identified as the MINK Missouri River corridor, all who are interested in the development of this rural area are invited to participate in the programs.</p> <p>More than one million residents in the four-state MINK regional areas are being represented in their community enhancements.</p> <p>Following the strategic plan developed last year, the four MINK committees continuously seek input from partnerships throughout the region to better identify and communicate the region’s assets.</p>	<p>Participants in the four committees are continually engaged in asset mapping and identifying how to meet current and future needs in communities.</p> <p>Specifically, the transportation committee has engaged local, state and federal officials in conversations relating to restoring the transportation of product along the Missouri River.</p> <p>The tourism, housing and entrepreneurship committees are reviewing current and future opportunities and how to best promote river navigation assets.</p>	<p>The MINK Region has significantly benefited from all four committee inventory assessments and promotions.</p> <p>The transportation committee now has river transported product from the Kansas City area to near the Omaha ports.</p> <p>A housing assessment study is being planned for the region.</p> <p>A cultural arts asset inventory for the region continues to be charted.</p> <p>The entrepreneurship committee now has “how to” program presentations.</p> <p>One immediate goal is to further develop river traffic of product within the MINK corridor.</p>	<p>The public value statement indicates “The Missouri River Corridor, Inc.</p> <ul style="list-style-type: none"> <li>- works collaboratively</li> <li>- leverages resources</li> <li>- seeks investments</li> <li>- supports growth to reverse the downward trends in population and economic values</li> <li>- promotes regional assets.</li> </ul> <p>The standing committees are highly engaged in the promotion of the region to its citizens and to decision makers at all levels of government.</p> <p>A strategic value of the MINK corridor group is the recognition being received by local, state and federal agencies. The MINK corridor has now been recognized by state and federal officials.</p>



## Agronomic Programs

Programs	Topic	What Did They Learn?	How Did Participants Benefit?	How Does This Work Make The County and Missouri Better?
<p>The value of all crops including row crop, forages and commercial horticulture is \$406 million in Holt, Atchison, Andrew, Nodaway, Clinton, Buchanan and DeKalb counties. To maintain a competitive, viable agriculture requires the latest research, education and resources to continue its growth.</p> <p>Management of Genetically Improved Crops</p> <p>Mo Crop Management Systems</p> <p>Plant Protection</p> <p>Nutrient Management Planning</p> <p>Forage Production and Management</p>	<p>Crop management</p> <p>Forage management</p> <p>Fertilizer management</p> <p>Pest management</p> <p>The agronomic programming focused on timely delivery of crop management information and research to the seven counties in the Northwest Region. The programming effort is accomplished through media such as radio, newspaper and newsletters. Other methods include meetings, research and demonstration plots and directly answering growers' questions.</p>	<p>New precision ag technology and biotechnology and how technology fits into a grower's operation</p> <p>New hybrids and varieties through our testing program</p> <p>Improved weed control research and teaching</p> <p>New weed, insect, and disease pests that potentially can attack crops and utilizing our pest monitoring program</p> <p>Product evaluation to determine if the product is effective and how to adopt and utilize this in a grower's operation</p> <p>Pesticide safety</p> <p>Product costs and determining their cost effectiveness</p> <p>Choosing and applying fertilizers.</p>	<p>Formal surveys of growers' attitudes to teaching in formal meetings as follows:</p> <p>During the last eight years, the value of the agronomic meetings rated a 4.25 on a scale of 1 to 5 with 5 being excellent and 1 being poor.</p> <p>Data summarized over past eight years indicated that growers would recommend this meeting to other growers rated a 4.38 average on the same scale.</p> <p>As to speaker being knowledgeable, data summarized was 4.58 on the same scale.</p> <p>Agronomic programs vary with the methods of delivery. The result is an action or a decision and knowledge is gained by growers. Also, growers request what the research indicates, what are the advantages and disadvantages of using a product, a strategy, or sometimes how to address a situation.</p>	<p>Winter Ag Update meetings focus on critical topics for row crop and livestock producers enabling them to be competitive.</p> <p>Private applicator training provides growers with the knowledge to apply pesticides safely while protecting the environment.</p> <p>Cooperation with commodity groups helps growers expand markets and produce food not only locally but also globally.</p> <p>Certified crop adviser meetings provide technical information to crop advisers resulting in scientifically sound recommendations when they work with area growers.</p> <p>Graves-Chapple Research Center and Hundley-Whaley Research Center provide the latest research to help growers remain competitive and provide an economic driver for northwest Missouri.</p> <p>As world population continues to increase, the need for food production continues to grow. It is critical to continue to increase crop yields while maintaining competitiveness to increase food production in an environmentally responsible manner.</p>

## Housing and Environmental Design

Number of Atchison County Learners	Topic	What Did They Learn?	How Did Participants Benefit?	How Does This Work Make Atchison County and Missouri Better?
7 Atchison County Community Services clients	Healthy Homes - Green Cleaning	Participants learned how to reduce indoor pollutants by limiting the number of chemicals used and by following three basic guidelines for improving their indoor environment.	Participants benefited by learning how to improve their indoor environment, save money and help conserve natural resources. Participants received recipes and the supplies for making their own cleaning products	It provides citizens with the information needed so that they can simplify their cleaning, save money and improve their indoor environment. Participants who had upper respiratory issues or with family members with those issues expressed how excited they were to improve their indoor air quality and save money.
7 Atchison County Community Services clients	Money Matters from the Building Strong Families program	Participants learned how to identify their own personal money styles, practice family resource allocation and learn the importance of a spending plan.	Participants benefited by understanding what motivates personal financial decisions, understand trade-offs among competing resource demands within the family, increase communication skills within the family and reduce family stress.	Families make fewer demands on community and agency resources. It also reduces the demand for predatory financial products and services.
6 Atchison County Community Services clients	Home Maintenance – Home Repair	Participants learned to identify areas of the home that typically need repair, where to look and factors to help them determine if they have the ability and resources to do themselves or hire a contractor.	Participants benefited by learning what might be involved with a home repair such as time, abilities and resources to do the repair properly. If they need to hire a contractor, they learned what qualifications to inquire about, references, and costs.	Families that can successfully make their own home repairs can save money and experience a feeling of satisfaction. GHCAA provided a tool kit for each family. Many did not have one so were very excited to be able to do a few home repairs on their own.
8 Atchison County Community Services clients	Energy Management – Water Conservation	Participants learned measures that they can take to conserve water while saving energy as well as money. They also learned about the importance of Water Sense products.	Participants benefited by learning the measures they can take in their own homes to save water, energy and money. GHCAA provided each family with a water conservation kit containing products that they could immediately implement in their own home to conserve water and save money.	This helps families to save money while conserving water and energy by implementing the measures they were taught as well as installing the products which will assist them with their efforts. When we conserve water and energy, it helps our community and environment.

## Family Nutrition Education

Number of Atchison County Leaners	School Districts and Agencies Served	What Action Did Participants Take?	How Does This Make Atchison County and Missouri Better?
<p>559 Youth Direct Contacts</p> <p>189 Total Indirect Contacts (youth &amp; adult)</p> <p>In 2016, the University of Missouri Extension Family Nutrition Education Programs provided nutrition education to low-income youth and adult participants in Atchison County.</p> <p>Nutrition Educators provide kid-friendly lessons that include taste-testing healthy foods and practicing skills that lead to good health.</p> <p>Education for adults includes nutrition, food safety, physical activity, and food budgeting.</p>	<p>Schools:</p> <p>Fairfax Elementary</p> <p>Rock Port Elementary</p> <p>Tarkio Elementary</p>	<p>NPA Gina Ripley shares: While teaching classes at Tarkio Elementary, several 2<sup>nd</sup> grade students reported making the Tortilla Roll-up recipe at home after trying it in my nutrition class.</p> <p>At the same school, the aunt of a third grade boy told me they had attended a health fair at a local hospital and her nephew took part in a nutrition quiz along with several adults. He was able to answer most of the questions correctly and said he learned much of the information from my nutrition classes (<i>Building My Body</i>) at his school.</p> <p>The parent of a preschool boy at Rock Port Elementary reported that since having my nutrition classes (<i>Let's Read About Healthy Eating</i>) her son talks about the foods on his dinner plate at home, categorizing each food into its correct food group.</p>	<p>The Family Nutrition Program (FNP) brought \$8,582,289 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 951,652 food stamp recipients and food stamp eligible citizens of Missouri.</p> <p><b><u>FNP recorded 748 total contacts in Atchison County.</u></b></p> <p>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.</p>

## Family Financial Education

Number of Atchison County Participants	Total dollars returned from federal and Missouri refunds	What Did They Learn?	What Action Did Participants Take?	How Does This Make Atchison County and Missouri Better?
50 participants representing 40 households	\$25,669 returned including \$3,016 in earned income credit to Atchison County Residents	Importance of retirement savings Savings credit Other tax credits Lowering tax liabilities Consequences of bankruptcy	An Atchison County couple had been considering bankruptcy, but after learning about the tax consequences, they decided to look into different options for their debts.	In addition to the income and education, an average of \$90 per return was saved by having taxes prepared by University of Missouri Extension. Regionally, federal and state tax forms were filed for 274 households. In addition to Missouri tax returns, state returns for seven other states were prepared. Supporting extension saved low income families the cost of a tax preparer and brought money to the area in refunds, earned income credit, child tax credits, and other tax credit benefits.

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 **Facebook - University of Missouri Extension Atchison County**

**Office faculty and staff:**

Jim Crawford, natural resource engineer and county program director  
 Amie Schleicher, livestock specialist  
 Jerry Baker, community development specialist  
 Samantha O’Riley, 4-H youth program associate  
 Janet Nauman, secretary/office manager

**Specialists and staff assigned to serve Atchison County:**

Karma Metzgar, regional director  
 Wayne Flanary, agronomy  
 Randa Doty, agriculture business  
 Penny Crawford, regional coordinator, FNEP  
 Connie Neal, housing and environmental design  
 Constance Mowrer, FNEP program manager  
 Tom Fowler, horticulture  
 Annette Deering, 4-H youth  
 Regina Ripley, nutrition program associate  
 Meredith Berry, family financial education  
 Clint Dougherty, procurement technical assistance

INCOME	2016 BUDGET
County commissioners	\$44,660
Rent	\$952
Resale items/soil tests	\$233
Postage allocation	\$2,520
Fundraising	\$1,911
Miscellaneous	220
<b>TOTAL</b>	<b>\$50,496</b>

**Atchison County MU Extension Council Members**

**Officers:**

Dallas Hurst, chairman  
 Josh Oswald, vice chairman  
 Jim Ball, secretary  
 Jon Lucas, treasurer

**District 1 - Tarkio School District**

Afton Hannah                      Joy Clapp  
 Dallas Hurst                      Tim Turnbull  
 Dennis Martin

**District 2 - Rock Port School District**

Dale Dickkut                      Jon Lucas  
 Jennifer Geib                      Richard Stephens  
 Buddy Husing

**District 3 - Fairfax School District**

Jim Ball                              Krys Carlock  
 Josh Oswald                      Treyvor Umbarger

**Appointed Members**

County Court                      David Chapin  
 4-H Advisory                      Julie Joesting, Shannon Tharp  
 Farm Bureau                      Ryan Harms

EXPENSES	2016 BUDGET
Secretary/bookkeeper	\$20,435
3-wk temp. sec. and janitor	1,573
Benefits	2,820
Travel	4,376
Supplies/materials	9,272
Equip. new/maintenance	220
Ins., bond, adv.	1,065
Utilities/rent	6,403
½ time youth program associate support	4,332
<b>TOTAL</b>	<b>\$50,496</b>

Federal and state funds provide salaries and benefits for professional staff assigned to the county, expenses for professional development, official mail, and cost sharing on computer technology. The University also provides educational materials and faculty support for extension programs. For the past year, 2016, University of Missouri Extension investment for direct support of three professional staff and one-half time youth program associate amounted to over \$279,900 in Atchison County.