

BUILDING A BRIDGE TO COMMUNITY LEARNING



UNIVERSITY OF MISSOURI
 Extension
Live. And Learn.

Adair County
2016 Annual Report



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December 2016

Dear County Commissioners and Friends of University of Missouri Extension,

Thank you for continuing to make University of Missouri Extension relevant and successful in providing educational programs for citizens of Adair County. This annual report outlines the success MU Extension has had in Adair County during 2016.

The success of University of Missouri Extension in Adair County is determined by the dedication and support of members of the County Extension Council. The council assists staff with planning and implementing programs by communicating the interests and concerns of local citizens. Programming efforts require the best efforts of our partnerships in the state to maximize and apply our resources where the greatest impact can be made.

We want to extend a special thank you to the Adair County Commission for their continued support of the Adair County Extension Center.

We would also like to thank all of our volunteers, partners and stakeholders who continue to support our efforts in extension.

When you support University of Missouri Extension, Adair County benefits as well as the state of Missouri.

Sincerely,



Katie Wayman
Extension Council Secretary



Sandra Fleak
Extension Council Chair



Michelle Klem, University of Missouri Extension
4-H Youth Development Specialist
County Program Co-Director



Jennifer Schutter, University of Missouri
Extension Horticulture Specialist,
County Program Co-Director

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

University of Missouri Extension provides equal opportunity to all participants in extension programs and activities, and for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of their race, color, religion, sex, sexual orientation, national origin, age, disability or status as a protected veteran.

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,



Marshall Stewart, Ed.D.
Vice Chancellor for Extension

Adair County Extension Council	Adair County faculty and staff	Staff serving Adair County, but based in other counties	Adair County Commissioners
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Sandra Fleak, chair
 Shelley Story, vice chair
 Katie Wayman, secretary
 Colleen Land, treasurer
 Edna Bunch
 Drew Daniels
 Kristy Garcia
 Sonja Harden
 Martha Hulet
 Andrea Jackson
 Bob Jackson
 Marty Jayne
 Brittany Kelsey
 Adam Moore
 Stanley Pickens
 Lois Powell
 Gale Robertson
 Ed Ross
 Tony Thompson
 Dale Vansickle



Michelle Klem
 4-H Youth Development Specialist and County Program Co-Director



Jennifer Schutter
 Horticulture Specialist and County Program Co-Director



Zac Erwin
 Livestock Specialist



Margo Myers
 Nutrition and Health Specialist

Vanessa Miller
 Office Manager

Deanna Shoup
 Family Financial Education Specialist
Chris Shoemaker
 Business Development Specialist
Charles Holland
 Business Development Specialist
Valerie Tate
 Agronomy Specialist
Jeremiah Terrell
 Human Development Specialist
Darla Campbell
 Agriculture Business Specialist
Kent Shannon
 Natural Resource Engineer
Christopher Kempke
 Community Development Specialist
Mary Smyser
 Food Nutrition Program Coordinator
Jill Lane
 Nutrition Program Assistant

Shelley Bush Rowe
 Regional Director
Shari Pretz
 Regional Office Support

Stanley Pickens
 Presiding Commissioner
Carson Adams
 1st District Commissioner
Mark Thompson
 2nd District Commissioner

State legislators

Brian Munzlinger
 State Senator District 18
Nate Walker
 State Representative District 3
Craig Redmon
 State Representative District 4

About us

Our location:
 503 E. Northtown Road
 Kirksville, MO
Our office hours:
 7:30 a.m. to 4:30 p.m.
 Monday through Friday
How to contact us:
 Phone: 660-665-9866
 Fax: 660-665-9876
 Email: adairco@missouri.edu
 Webpage: extension.missouri.edu/adair

Find us on



2016 Adair County University of Missouri Extension Council operating budget

REVENUES	
County Appropriations	\$66,300
EXPENSES	
Personnel Services	\$35,149
Payroll Expenses	10,362
Travel	3,284
Postage	175
Telephone Service/Tolls	2,500
Supplies/Services	3,300
Utilities	6,300
Other Contract Services	1,680
Insurance	1,300
Repairs/Maintenance	1,450
Furniture/Equipment	<u>800</u>
	\$66,300



Garden 'n Grow

Jennifer Schutter, horticulture specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
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10 youths

200 hours

Taught by Horticulture Specialist Jennifer Schutter and Master Gardener volunteers, youth were assigned a garden plot to grow vegetables of their choice.

They learned:

- To properly plant and care for a garden.
- Weed, insect and disease identification and control.
- When to harvest vegetables and prepare them for eating.
- The importance of donating extra produce to those in need.

Garden n' Grow participants grew their own garden in raised beds at the Adair County Extension Center. They selected vegetables of their choice and with the help of Jennifer and Master Gardeners they laid out and planted their gardens. During each class time, a lesson was taught on a garden topic such as soils, insects, disease, photosynthesis and many more. Participants learned gardening concepts they applied in the garden such as proper planting methods, watering, fertilizing, weeding and knowing when to harvest vegetables. After vegetables were picked they were used to show the youth how to prepare healthy dishes and incorporate vegetables into meals. Participants took home the vegetables that they grew. Approximately 300 pounds of tomatoes were donated to a mobile food pantry and to others in need of tomatoes.

When you support MU Extension's Garden n' Grow, youth learn the responsibility of growing and caring for a garden, how to cooperate and work together, how to harvest and prepare vegetables, the importance of healthy eating and the importance of giving to others in need.



Planting their gardens.



Above: We made pickles from cucumbers grown in our gardens.
Below: Picking and preparing our produce to exhibit at the NEMO Fair.



Below: Making pizza with fresh produce from our gardens.



COMMENTS:


"I think this program is wonderful for kids to do because you never know what situation you're going to be in."

"Cheeseburgers with pickles and onions and ketchup from our tomatoes. I had a lot of good fun!!!!"



Home horticulture and the environment

Jennifer Schutter, horticulture specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
19 Adair county residents attended a seed starting workshop held in March.	57 hours 	Participants learned what supplies are needed to start plants from seeds, when seeds can be started, and care for seedlings and transplants.	Participants are better able to start their own seeds indoors because they know the supplies needed and how to care for young seedling and transplants.	By supporting MU Extension's home horticulture program, citizens receive high-quality horticultural information that is unbiased and research-based. Comments: "Very good, loved the hands on."
30 Adair county residents attended the Pollinators and Beneficials workshop on October 24.	60 hours	Participants learned how to establish pollinator plants on their property to attract monarch butterflies and other pollinators.	Participants indicated that they would plant milkweed plants and other pollinator plants in the spring.	Comments: "Excellent program with a great deal of useable info even for a small yard gardener. Thank you for a great informational seminar in a great environment."
10 visually impaired persons attended two garden programs.	40 hours	Jennifer Schutter and Master Gardener Teri Crandall, gave programs using the senses (touch, taste, smell) using fresh fruits, vegetables and herbs.	Participants learned to identify garden produce using their senses. They learned ways to prepare and eat fresh produce.	
1200+ home gardeners and home owners	100 hours	Adair county residents received positive identification of weeds, ornamental plants, insects, plant diseases and disorders throughout the year. Residents also sought home horticulture assistance on various garden topics. Pest control options along with integrated pest management were discussed and university horticulture publications were given to clients.	Correctly having a plant or pest identified allows home gardeners to make better choices about pest control. Soil testing allows home gardeners to properly amend their soil before planting fruit and vegetables or fertilizing their lawn. Homeowners sought landscaping advice so they could make better choices about buying trees, shrubs and flowers for their landscape.	
248 Adair county residents receive the Garden Talk horticulture newsletter each month.	8 Kirksville Area Master Gardeners spend a total of 24 hours each month folding and stuffing the newsletter.	The Garden Talk newsletter provides citizens with timely horticulture information.	Information learned in the newsletter allows gardeners to make better decisions about plant selection, pest control and production methods.	

Master Gardener

Jennifer Schutter, horticulture specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
26 Master Gardeners	<p>Adair County Master Gardeners completed a total of 1,131 volunteer hours in 2016. Of that 856.5 were service hours, which have a value \$20,179.14 using the 2015 value of \$23.56 per hour from the Independent Sector.</p> <p>Master Gardeners completed 274.5 continuing education hours.</p>	<p>Master Gardeners learned to grow several types of milkweed and establish monarch waystations around the community.</p> <p>Master Gardeners continually learn about new plant varieties, production methods, landscaping techniques, plant identification, integrated pest management, lawn care, pruning, among many other areas of horticulture.</p>	<p>Master Gardeners worked with the city of Kirksville in securing funds for plants and mulch in parks and for assistance in the delivery of mulch and brush pick-up at various beautification sites around the city.</p> <p>Kirksville Area Master Gardeners:</p> <ul style="list-style-type: none"> • Continue to focus on restoring butterfly habitat in the county. • Hosted a pollinator workshop in October. • Worked on several beautification projects, including beds at the Adair County Veteran’s Memorial, Brashear Park and the Adair County Public Library. • Installed a sensory garden at the new inclusive playground at the YMCA in memory of Joan Mayberry. • Assisted with Garden n’ Grow. • Prepare the Garden Talk newsletter for mailing, among many other educational activities. 	<p>When you support MU Extension’s Master Gardener program public awareness of unbiased, research based gardening information is promoted and increased.</p> <p>The Kirksville Area Master Gardeners assist in the community through beautification projects, helping to disseminate research based information, and assisting with various other horticulture projects.</p>
2 Adair County residents	72 hours of Master Gardener training classes	<p>Participants took a 12-week training class attending a three hour class each week on these horticulture topics: Introduction to MU Extension and the Master Gardener program, plant growth and development, woody ornamentals, herbaceous ornamentals, landscaping, lawn care, vegetables, insects, plant diseases, winterizing the landscape, soils and fertilizers, fruit production and plant propagation.</p>	<p>Master Gardener trainees completed the course and will start volunteering and providing service to their community.</p>	<p>Comments: “Great instruction.”</p>
6 Master Gardeners	24 hours	<p>Master Gardeners learned to raise, tag and release monarch butterflies.</p>	<p>Master Gardeners raised, tagged and released 90 monarch butterflies. Twenty-one were raised and released without tags, for a total of 111 monarchs.</p>	



Commercial horticulture: Missouri Grown

Jennifer Schutter, horticulture specialist and Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
<p>150 people sampled products from local producers.</p> 	<p>8 hours of volunteer service from Kiwanis.</p>	<p>Horticulture Specialist Jennifer Schutter and two Kiwanian volunteers did a food sampling event at the Kirksville Farmers Market in August. The purpose was to showcase locally produced foods and see if sampling would increase producer sales. Consumers learned what products are available from local producers and were able to sample and taste the various products. After the event, producers indicated that they did have an increase in sales that day of the products they gave for sampling.</p>	<p>Adair county producers sell thousands of pounds of produce, eggs and meat through various marketing outlets such as farmers' markets, farm stands, grocery stores, restaurants, direct sales to consumers and wholesalers. These producers are better able to market their products and diagnose plant pests and apply the best methods of control with help from MU Extension. During the food sampling event at the Kirksville Farmers' Market, they learned that consumer sampling of various products can increase sales of those products on that day.</p>	<p>When you support University of Missouri Extension's Missouri Grown program, small scale producers and commercial growers are provided with unbiased and research-based information to make better decisions which will help them be successful with production of horticultural crops and raising bees.</p>
<p>6 Adair County residents attended the advanced beekeeping workshop held in Macon on June 1.</p> 	<p>36 hours</p>	<p>Participants learned advanced beekeeping techniques from experienced beekeepers.</p>	<p>Participants planned to build hives and raise honey bees for honey production and pollination of crops. The afternoon session was conducted at the farm of Macon County resident Bob Brammer. Bob showed participants how to smoke a hive and handle bees. He also showed how to determine if varroa mites are present in the hive among other beekeeping related techniques.</p>	<p><i>Comments:</i> <i>"Well worth the time and money."</i> <i>"Awesome class."</i></p>



Show-Me-Select


Zac Erwin, livestock specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
30 producers	75 hours	<p>The Show-Me-Select program focuses on an increased adoption rate of management practices that offer potential to improve long-term reproductive efficiency of their herds and resulting profitability.</p> <p>Also focusing on increasing marketing opportunities for and adding value to Missouri-raised heifers with the creation of reliable resources of quality replacement heifers in terms of genetics and management.</p>	<p>One beef producer in Adair County is enrolled in the Missouri Show-Me-Select replacement heifer program.</p> <p>Six Adair county beef producers purchased heifers from the sale at Kirksville Livestock, LLC.</p>	<p>Analyzing data from SMS sales show that Show-Me-Select tagged heifers when compared to those that don't carry the trademarked tag, realize a 164 dollar per head increase in value. Moreover, data from past buyers of Show-Me-Select heifers show a reduction, compared to the national average, in assistance rates and death loss of first calf heifers.</p> <p>Improving profitability of producers helps rural economies stay strong.</p> <p>Financially successful producers provide a basis for successful communities.</p> <p>Missourians benefit by keeping farm and ranch families in rural communities and improved natural resource stewardship.</p>
				
<p>Find us on </p> <p>Show Me Select Bred Heifer Sale: North Central Missouri</p>				

Beef cattle rations for producers

Zac Erwin, livestock specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
40	80 hours	<p>Producers learned how to reduce ration costs with proper diet formulation and supplementation</p>	<p>By including by-product feeds and doing forage analysis, producers are able to lower their ration costs.</p>	<p>MU Extension's by-product research and education assists beef producers in effectively storing and utilizing co-products as cattle feed. This results in improved producer sustainability and greater local use of co-products. Rural communities benefit from improved profitability of both the livestock and ethanol industries contributing to Missouri's agricultural economic strength.</p>
				

Missouri Livestock Symposium

Zac Erwin, livestock specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
225 producers	3,425 hours	<p>The Missouri Livestock Symposium is an annual educational program and trade show that attracts participants from throughout Missouri and beyond. It is recognized nationally as an outstanding program that targets agricultural producers and landowners.</p> <p>Curricula includes workshops led by nationally-known speakers in the areas of horses, beef, sheep, stock dogs, meat goats, forages, around the home, small poultry production and farm continuation planning.</p> <p>Comments:</p> <ul style="list-style-type: none"> • “Interesting speakers and able to reach a group that without the Symposium we would not be able to meet.” • “Great event highlighting livestock production and ag.” 	<p>Based on post-session (retrospective) evaluations:</p> <ul style="list-style-type: none"> • 82 percent of participating producers indicated that they had an increased level of understanding on the principles provided in the sections of beef cattle, horse, sheep, meat goats, forages and stock dogs. • On average, 87.5 percent of responding participants indicated they will adopt technologies presented in their respective sessions. <p>Find us on  Missouri Livestock Symposium</p>	<p>Public funding helps support the Missouri Livestock Symposium with objectives to provide educational opportunities for livestock producers and landowners representing all species of livestock, forages, and renewable resources and to promote the adoption of best management practices that are economically and environmentally beneficial.</p> <p>The producer benefits from this program by being better able to manage their livestock and their financial resources.</p> <p>Financially successful producers provide a basis for successful communities.</p> <p>Missourians benefit by keeping farm and ranch families in rural communities and improved natural resource stewardship.</p>



Above: Over 80 agriculturally-related businesses, commodity groups, and organizations displayed their products for area producers to see in the trade show. One of the trade show participants keeps coming back because this event “draws diverse crowds.” Another one stated, “good attendance, with people that have a need for our product.”



Left: Attendees had the opportunity to attend 47 educational sessions on beef cattle, forages, horse, sheep, meat goats, food chatter, stock dogs, around the home and farm and farm management topics throughout the day on Saturday, December 3.





Farm financial stress in rural economies

Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
10 Adair county participants	25 hours	<p>Topics included:</p> <ul style="list-style-type: none"> • Regional weather impacts. • 2015 prevented planting acres. • Lower land values. • Dropping farm commodity prices. • Local area broad issue impacts . 	Producers learned current information to help them make better management decisions during tough economic times and influence policy change.	<p>Producer concerns were heard from around the state and information was compiled by MU Extension and the Missouri Department of Agriculture. This information was then shared further with the United States Department of Agriculture.</p> <p>By networking and collaborating in this manner, more policy change will be influenced for livestock and crop producers.</p>



Agricultural Lenders' Seminar

Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
4 Adair county participants	22 hours	<p>Topics for the seminars held at Kirksville, Hannibal, and Mexico were:</p> <ul style="list-style-type: none"> • Ag site assessment. • Macroeconomics. • Land values and rental rates. • Crop and livestock outlook. • Update on taxes and other legal issues. • Livestock risk insurance. • Affordable Care Act . • Updated Extension curriculum. <p>Lenders received the 2016 Missouri Farm Financial Outlook publication, which included budgets for all major crop and livestock enterprises in the state.</p>	<p>Lenders will help their agricultural customers to use the information and tools they were given.</p> <p>Specific actions include using:</p> <ul style="list-style-type: none"> • Budgets. • Crop and livestock outlook. • Rental rates and land values. • Tax and ag site assessment information. 	<p>The lenders in attendance manage 6,039 loans totaling \$637,960,000.</p> <p>By attending University of Missouri's Agricultural Lenders' seminars, lenders are able to help their clients make better decisions based on risk management tools, budgets, and other resources provided.</p> <p>This benefits their portfolio of producers and landowners by a better understanding of enterprise budgets and cash flow affecting families' and businesses' financial health. This is especially important with the downturn in the agricultural economy as both crop and livestock producers face low income, high input costs, and challenging marketing decisions.</p>



FFA career development experiences

Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
31 Adair county youth and 2 adult instructors	264 hours	<p>Participants partook in Career Development Experiences (CDE) in the following areas:</p> <ul style="list-style-type: none"> • Farm business management. • Meats. • Equine. • Livestock. • Poultry. • Dairy Cattle. • Dairy Foods. • Forestry. 	<p>This event prepares youth for District and State contests, as well as real life careers.</p> <p>It also meets DESE testing requirements for seniors who have been in a specific area of vocational agriculture for three or more years.</p>	<p>Youth engaged in Career Development Experiences are better prepared to compete at the district, state, and national level. Longer term, they are more involved and informed producers, consumers, employees and business owners. Vocational Agriculture instructors are able to use what they learned to teach future students and FFA teams.</p> <p>Some of these youth will pursue careers in agriculture, but all will have gained marketable skills. Youth will have more confidence in their supervised agricultural experience (SAE) project as they learn applicable life skills that will help them be better prepared to enter college and the workforce.</p>

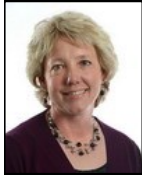


Tax school

Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
6 Adair county participants	48 hours	<p>Topics for the school included:</p> <ul style="list-style-type: none"> • New tax legislation, rulings, and cases. • Individual tax payer issues. • Affordable Care Act. • IRS rules and regulations. • Retirement issues. • Death of a taxpayer. • Agricultural topics. 	<p>Tax preparers attained their required continuing education credits. They will put the information learned in the tax school to use with their clients.</p>	<p>County residents benefit when local tax preparers gain knowledge they can use to benefit their clients.</p> <p>Taxpayers benefit by abiding within IRS regulations, having tax preparers that understand agricultural situations, and utilizing the latest tax law changes.</p>





Private pesticide applicator training

Valerie Tate, agronomy specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
31 producers	72 hours	Participants learned how to safely handle and apply pesticides. Participants also learned how to minimize negative environmental impacts of pesticide applications to protect water quality and wildlife habitat.	Producers obtained their Private Pesticide Applicator license which allows them purchase restricted use pesticides.	This program provides producers of agricultural commodities with the knowledge and skills necessary to apply pesticides in a way that is safe for them and the environment while remaining competitive by having the option of using EPA restricted crop protection technologies.

Your Farm, Your Business, Your Future

Darla Campbell, agribusiness specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
2 participants	24 hours	<p>Class participants learned:</p> <ul style="list-style-type: none"> • Writing business goals and mission statements. • Effective communication techniques. • Dealing with conflict. • Understanding generational differences. • Succession planning. • Estate planning. • Retirement planning. 	<p>Attendees will review how their property is titled.</p> <p>They will use POD (Payable on Death) and TOD (Transfer on Death) when possible to transfer their assets.</p> <p>They will discuss their estate and succession plan with their heirs.</p> <p>They will encourage their children and grandchildren to start saving for retirement.</p>	<p>When you support MU Extension's Your Farm, Your Business, Your Future program, you prepare families to better understand how to transfer the farm or business, protect the estate's assets, and communicate more effectively with professional advisors and heirs..</p> <p>This helps foster family communication and avoid costly litigation and aids in the continuation of the farm business.</p> <p>If families save 6 hours of legal time the value of this class is \$4500.</p>





Missouri Procurement Technical Assistance Centers

Chris Shoemaker, business development specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2014.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
7 individuals	14 hours	The registration processes for state and federal contracting along with potential opportunities that pertains to their product or services offered.	Contracts Awarded for Adair County during the 2016 calendar year. Government contract awards amount: \$0. There are currently businesses being awarded government contracting, however have not utilized the resources of MOP-TAC currently.	This is job creation along with increasing small business opportunities in rural northeast Missouri. Overall, the University of Missouri's Business Development Programs (BDP) served people and their businesses state-wide. The total impact for all businesses assisted by the BDP was: Government contracts, \$347,900,000.00 The business development faculty contributing to these business successes are from the programs identified above. These staff have regional and statewide assignments and work with businesses in all counties across the state.



Business education offered in Adair County


Charles Holland, business development specialist

Number of Adair County learners.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
57 clients/companies receiving business counseling 73 training event attendees	Business Development Program Specialist and business counselors with MU extension, Missouri Small Business & Technology Development Centers (MO SBTDC), counsel people and their companies with start-up and management counseling, training and other assistance.	6 Business Start 10 Jobs Created \$800 Acquired Assets \$38,625 Capitalization \$1,290 in Sales increases	As Entrepreneur's and innovators, Missouri's small businesses are becoming a more diverse group that continues to make the state's economy productive. There are approximately 500,000 small businesses in Missouri. Nearly 98 percent of all businesses with employees are categorized as small businesses. In assisting owners and managers of those businesses, MU Extension contributes to a county's economic development through growth in jobs, sales, innovation, technology development and commercialization. Training and business counseling result in businesses making better financial and management decision leading to stronger businesses and a stable business community.



When you lose your job, don't panic Financial education for displaced workers

Wendy Brumbaugh, family financial education specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
21 Adair County participants 	42 hours	<p>Participants received instruction on:</p> <ul style="list-style-type: none"> • Setting financial goals. • Understanding credit pitfalls. • Identifying spending habits. • Budgeting concepts. • Strengthening communication skills about money. <p>Evaluation of the various workshops shows that participants learn:</p> <ul style="list-style-type: none"> • Strategies to replace financial stress and worry with positive action solutions. • Having savings in the bank is life changing. • Paying off debt is a form of savings and builds net worth. • There is only one truly free website to access your credit reports (annualcreditreport.com) and more than 100 rip-off websites. • A bad credit report can cost a family \$250,000. The credit report is the most important document a family has. • Predatory lenders routinely charge the equivalent of three and four digit annual percentage rate interest when both interest and fees are considered. 	<ul style="list-style-type: none"> • One hundred percent of the participants had written financial goals by the conclusion of their work. • Each participant gained an understanding of predatory lenders and received a list of resources available to them. • Making financial decisions less on the basis of fear or greed and with quality, correct information. • Every participant left the program with knowledge about their personal credit report and how to gain access to their report. • 98 percent find learning about financial management with Extension to be a positive experience and would recommend it to others. • Participants reduce their financial stress and take positive actions like: <ul style="list-style-type: none"> ⇒ Communicating with lenders. ⇒ Selecting lenders carefully. ⇒ Building net worth. ⇒ Paying off debt. ⇒ Increasing their savings for retirement and other critical goals. ⇒ Making financial decisions less on the basis of fear or greed and with quality, correct information. 	<p>By supporting Take Control of Your Finances, families learn to manage their finances which lessens the financial burden on the community and a drain on social services.</p> <p>The Personal Finance Employee Education Foundation has documented that for every \$1 spent in financial education, the bottom line in increased employee productivity is \$3. That's a 300 percent return. That's job retention.</p> <p>When you support financial education in Adair County, participants learn quality financial strategies which result in increased success in reaching financial goals, stronger credit reports and better-informed consumer purchasing decisions. This helps lower costs for public assistance programs, reduce debt discharged in bankruptcy and results in more productive employees. It has become increasingly clear in recent years that individual financial decisions collectively affect the local and state economy.</p>

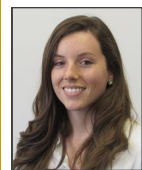
MissouriFamilies.org
Solutions for better living



Anger Management

Jeremiah Terrell, M.Ed., human development specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
7	14 hours	<p>This was a two hour stand-alone workshop on managing anger. It was delivered in partnership with Community Action Partnership of Northeast Missouri in Kirksville</p> <p>Participants learned:</p> <ul style="list-style-type: none"> • To understand underlying causes of anger. • To recognize the physical, emotional, and mental effects of anger. • How to develop coping mechanisms to reduce anger. 	<p>Participants were able to:</p> <ul style="list-style-type: none"> • Identify what causes their anger. • Connect their anger to physical, emotional, and mental reactions. • Identify coping mechanisms that work for them. 	<p>Poor anger management is connected with several physical, emotional, mental, and relational problems.</p>



Cooking matters at the store

Margo Myers, nutrition and health education specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
50 participants	75 hours	<p>Adair County residents who participated in Cooking Matters at the Store were provided information on MyPlate, fresh, frozen, and canned produce, seasonal produce, comparing unit prices, reading nutrition facts labels, how to identify a whole grain product, and suggestions on how to save money in each area/food group of MyPlate while shopping on a budget.</p>	<p>Participants will take the knowledge gained in this tour and apply it in their home and environment. Cooking Matters at the Store Tours provides participants with the necessary tools to buy healthy food while on a budget, planning grocery lists and meals in advance, and reading a nutrition facts label to determine the nutritive value and the whole grain content of the food they purchase. Further, each participant who attended the course received a Cooking Matters at the Store Workbook with tips on saving money and healthy recipes, and a reusable grocery bag to practice making healthy, affordable choices at the store.</p>	<p>When you support MU Extension's Cooking Matters at the Store Program, you help participants learn to shop smarter, providing them with the necessary skills to compare foods for cost and nutrition. Encouraging these healthy behaviors may reduce health care costs by helping prevent chronic health conditions throughout a person's life span, as well as reducing food waste and cost for a family or individual's budget.</p>



Nutrition educators training

Margo Myers, nutrition and health education specialist

Number of Adair County learners.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
16 participants	Participants heard from experts on multiple food topics including: “The Role of Labels in Consumer’s Food-Choice Decisions, Food Science Sense...and Nonsense, Why do Protein Quality and Quantity Matter?, and Ultra-violet Light and Nanotechnology to Extend Shelf Life of Fresh Produce”.	The objective of the conference was to increase the level of knowledge of professional educators and individuals that have an interest in health and nutrition in regards to the conference topics. This group is primarily responsible for the human nutrition education of thousands of northeast Missouri residents. The knowledge gained is used daily to enhance curriculum delivery in local schools, retirement communities, and income qualifying entities in their respective counties. Actions included more effective curriculum delivery, more informed food decision making, and better networking with other nutrition professionals.	Adair County residents ranging from youth in schools to the elderly benefit from the nutrition education programs of MU Extension. Increased awareness and better food decisions improve health and wellness of citizens. Increases in knowledge of food and nutrition has been shown to lower obesity rates and subsequently disease factors related to obesity. Decreasing obesity rates has been the target to lowering health care costs for all citizens.
Total hours of collective workshop participation in 2016.			
80 hours			

Participant quotes:

“Great speakers, food, and overall environment! Thanks for providing this seminar.”

“I can use what I have learned in teaching my classes. Many adults ask about the topics covered – now I have answers.”

Chronic disease self-management program

Margo Myers, nutrition and health education specialist

Number of Adair County learners.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
16 participants	Adair County residents who participated in Chronic Disease Self-Management were provided information on maintaining quality of life when faced with chronic medical conditions. More specifically, topics covered included: techniques to deal with problems such as frustration, fatigue, pain and isolation, appropriate exercises for maintaining and improving strength, flexibility and endurance, appropriate use of medications, communicating effectively with family, friends and health professionals, nutrition, and how to evaluate new treatments.	Participants will take the knowledge gained in this course and apply it in their daily activities for an enhanced quality of life. The Chronic Disease Self-Management Program provides participants with the necessary tools to effectively manage their chronic disease, or the chronic disease of a loved one. <ul style="list-style-type: none"> • 100 percent of program participants agreed that the class increased their independence and ability to carry out routine daily activities. • 86 percent of program participants agreed that the program had led them to change something (action or knowledge) based on what they learned or experienced in the program. 	By supporting the University of Missouri Extension’s Chronic Disease Self-Management Program, Adair County citizens receive high-quality health education information that is unbiased and research-based. Participants of Chronic Disease Self-Management are better able to effectively manage a chronic disease, maintain active, fulfilling lives with the tools and skills acquired from the class, and do so with increased confidence and independence.
Total hours of collective workshop participation in 2016.			
240 hours			

Small steps to health and wealth

Margo Myers, nutrition and health education specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
12 participants	24 hours	The Small Steps to Health and Wealth Program motivates participants to improve both their health and their finances. Participants are encouraged to set a health goal and/or wealth goal, then take action to achieve their goals by identifying small progress steps. Participants discuss 20 similarities between health and personal finance issues and learn 10 suggested behavior change strategies that can be applied to either area of life. The impact of health on finances and finances on health is also explored. The program concludes with a discussion of seven key health and wealth success factors: attitude, automation, awareness/knowledge, control, environment, goals, and time.	Participants will take the knowledge gained in this course and apply it to the health and financial aspects of their daily lives. By creating health and wealth goals, they are taking the first step in creating healthier habits for themselves and their families. When program participants were asked, "How will you apply what you have learned in this program?" responses included: "I'm going to watch my spending, start saving money, and start keeping a journal."	By supporting the University of Missouri Extension's Small Steps to Health and Wealth Program, citizens receive high-quality health and financial information that is unbiased and research-based. Participants of Small Steps to Health and Wealth can now make healthier choices regarding their spending practices and health habits. Implementing these practices (becoming aware of current spending and health practices, setting goals, and maintaining a positive attitude) can lead to an overall healthier lifestyle for the residents of Adair County.
<p>When program participants were asked, "How will you apply what you have learned in this program?" responses included: "I'm going to watch my spending, start saving money, and start keeping a journal."</p>				

A matter of balance

Margo Myers, nutrition and health education specialist

Number of Adair County learners.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
30 participants	Adair County residents who participated in A Matter of Balance were provided information on how to reduce the fear of falling and increase activity levels for those (specifically older adults) who have concerns about falls. Participants of the course learn to view falls and the fear of falling as something that is controllable, set realistic goals for increasing activity, change their environment to reduce fall risk factors, and promote exercise to increase strength and balance.	Participants will take the knowledge gained in this course and apply it in their home and environment. A Matter of Balance provides participants with the necessary tools to control/manage the frequency of falls and increase levels of physical activity by providing instruction on strength and balance exercises. Further, participants learn to view falls as something that is manageable, not just a natural part of aging. "As a result of this class, I have been cleaning my apartment to make it safer." "Thank you! This was a nice class, with great information!"	By supporting the University of Missouri Extension's A Matter of Balance Program, citizens receive high-quality health education information that is unbiased and research-based. Upon completion of the A Matter of Balance Program, participants should be able to view falls as a controllable matter, and increase their exercise levels by completing the physical activity routine provided in the course workbook. Additionally, if falls can be prevented, adults can save thousands of dollars in healthcare expenses. Implementing these practices can lead to an overall healthier lifestyle for the residents of Adair County.
Total hours of collective workshop participation in 2016.			
480 hours			



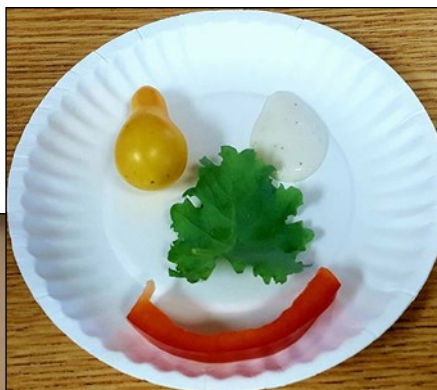


Family Nutrition Education Programs
Mary Smyser, project director



Jill Lane, nutrition program associate

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
<p>University of Missouri Extension's Family Nutrition Program (FNP) reached 2147 participants directly and 246 indirectly with nutrition education in Adair County during 2016 a significant percentage of which were low income. FNP provides information on nutrition, food safety, and physical activity for lifelong health and fitness by working with qualifying schools, community groups and agencies.</p>	<p>1073.5 hours</p>	<p>Youth from Pre-school to 8th grade learned through kid-friendly, hands-on lessons and activities. Activities include opportunities for taste-testing healthy foods and practicing skills that lead to good health. Education for adults also includes nutrition, food safety, and physical activity, as well as food resource management.</p>	<p>Nutrition Program Associates (NPA's) go into schools and other grant eligible locations and interact with community members to help them make healthier choices and build healthy habits. They see the difference the program makes in people's lives.</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. 2,393 of these participants reside in Adair County. 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>



Lane receives Lifetime Achievement Award

Jill Lane, Nutrition Program Associate with the University of Missouri Extension's Family Nutrition Program received the **Lifetime Achievement Award**. This award recognizes an individual who has made a significant contribution to the Family Nutrition Education Program, the organization, and the citizens they serve for more than fifteen years. Selection for this award was based on evidence of outstanding abilities, performance, character, and commitment to the land-grant philosophy. Jill is based in the Schuyler County Extension Office and serves eligible clients in Schuyler and Adair County.

Pictured right: 2016 Lifetime Achievement Award winners Juana Lopez – Nutrition Program Associate (Jackson County-Kansas City Area) and Jill Lane – Nutrition Program Associate (Schuyler & Adair County)





Strengthening community non-profit organizations: Take Root Café

Christopher Kempke, community development specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
12 Adair County learners	22 total workshop hours	<p>Participants were provided training on teambuilding, conflict management and consensus decision making in the context of a board.</p> <p>In the teambuilding section of the curriculum, participants learned how communication and empathy build trust which creates a positive team environment.</p> <p>In the conflict resolution section, participants learned strategies to avoid and defuse conflicts. They also learned how to structurally deal with conflicts between board members, executives, employees and others.</p> <p>In the consensus building section, participants learned how consensus decision making can be used in leuwe of or in addition to parliamentary procedure.</p>	<p>Participants integrated these strategies and techniques into their board operations.</p> <p>The organization has also since launched its pay what you can café, which is now fully operational.</p> <p>At least one participant elected to take MU Extension's Build Your Board online board curriculum.</p>	<p>In general, this program helped increase the leadership capacity of the 12 Adair County residents who attended and can now take those skills with them to any other organizations they work with.</p> <p>In the context of the Take Root Café organization, Adair county now as a pay what you can café operated by a more effective board due to their greater understanding of team dynamics, conflict resolution and decision making skills.</p>



What is the bigger picture? What are the true, lasting skills youth learn in 4-H

Michelle Klem, 4-H youth development specialist



What do we want youth to gain from 4-H?? Ribbons and trophies from the fair?? Sure, but ribbons will fade, trophies will sit still with dust. So, what is the bigger picture; what are the true, lasting skills youth learn in 4-H. Read below from a 4-H graduate, and you will learn what is truly possible for our youth in the 4-H program.

“Growing up, 4-H was a huge part of my family. My grandmom was an incredible volunteer in Cumberland County, New Jersey 4-H. Both of my parents were members during their childhood and they passed the tradition along to us kids. The 4-H program taught me about life and about my capabilities more than any other experience throughout my childhood.

This organization develops confident, competent, exceptional leaders. In 4-H we don't give trophies for participating, but we teach our youth how to win graciously and to lose in the same fashion. We teach our youth to be hardworking, independent individuals with a very diverse skill set through a number of wonderful opportunities.

My favorite part of the 4-H program when I was a member was going to 4-H camp. Even more than that I absolutely loved being a camp counselor. Now as a staff person serving the University of Missouri Extension and Missouri 4-H, my favorite aspect has changed. I now love seeing youth find their place, make new friends, and gain an unbelievable skill set that they will carry throughout their lives. This is what 4-H grows.

P.S. I also love hanging out with the kid's project animals and I still love camp... a lot!

Adair County 4-H Alumnus

Community 4-H clubs

Michelle Klem, 4-H youth development specialist

Number of Adair County learners.	Total hours of collective workshop participation in 2016	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
<p>224 youths ages 5 to 18. One of every five Missourians between the ages of 5 and 18 participated in a MU Extension 4-H Youth Development program in 2016.</p>	<p>12,096 hours</p>	<p>Eleven 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.</p> <p>4-H project work and related educational experiences help youths explore interests in citizenship, communication and leadership.</p> <p>4-H youths report three times more opportunities than their non-4-H peers to engage in meaningful community leadership roles.</p>	<p>4-H youth are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. Missouri 4-H members spend almost nine times more of their leisure time than peers engaged in projects anchored in science. As a result, 4-H members are three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008).</p> <p>Fostering career development is the fact that Missouri 4-H members are connected to college campuses and faculty. MU Extension 4-H connects 8,500 young people to University of Missouri campuses. Being on campus is a predictor of youth going onto higher education (Hoover, 2006).</p>	<p>When you support MU Extension our young people are more likely to attend college. Youths who earn their bachelor's degree, increase annual earnings by \$2 million over their lifetime (NACUBO, 2012). If 70 percent of the Adair County members participating in 4-H events on the MU campus go on to earn their bachelor's degree, 4-H would help young people earn \$16,800,000 more over the course of their life.</p> <p>Missouri 4-H members, however, also learn to use these talents to engage in their communities. Young people in 4-H are engaged in twice as many leadership roles than their non-4-H peers. This provides them with the experience in problem-solving to step up and lead in a complex, changing world. In Adair County 197 or 87.4 percent of 4-H youth were engaged in leadership and service experiences in their communities.</p>



DID YOU KNOW?

The project areas with the highest enrollment in Adair County are:

1. Shooting Sports—78
2. Photography—52
3. Foods—50
4. Arts and Crafts—44
5. Beef—37
6. Swine—36
7. Rabbits—32
8. Poultry—30
9. Horsemanship—25
10. Meat Goats—22



4-H camp

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
30 youths	1,200 hours	<p>Camp counselors receive 25 hours of training in youth development, positive discipline, emergency management and group dynamics each year, even if they have been camp counselors before.</p> <p>Campers learned to get along with others, be independent, follow a schedule and be on time, along with content that included science, drama, community service, health and fitness, and teamwork.</p>	<p>In a statewide research project, parents were asked what changes they saw in their child as a result of 4-H Camp. Frequently, parents reported their child was more helpful at home, better at working with others, more organized, showed higher self-confidence, better able to follow a schedule, make better choices, and comfort in speaking to and getting to know others.</p>	<p>In several statewide research projects, 4-H Camps, across the state were proven effective in developing life skills in youth; among those being independence, team work, social skills and learning to learn. Both youth campers and parents agreed that 4-H camp was effective in developing these life skills. In addition, a statewide research project confirmed that camp counselors are developing a variety of life skills and making career decisions based on their camp counseling experiences</p>



Left: Michelle Klem, 4-H youth development specialist, trains camp counselors in youth development, positive discipline, emergency management and group dynamics.

4-H volunteer development

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2014.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
116 volunteers	116,000 hours	<p>Adults learn to effectively work with 4-H youths, how to keep themselves and theirs safe while volunteering.</p> <p>In addition, they also learn many of the same project skills as youth.</p>	<p>Missouri 4-H volunteers responding to a survey report they contribute on average 100 hours per year.</p>	<p>When you support MU Extension, Adair county 4-H participants experience the positive mentoring of 179 volunteers annually.</p> <p>Valuing their time at \$21 per hour, based on average Missouri incomes, the contribution of Adair County 4-H volunteers was worth more than \$375,000 in 2014! More importantly, these adults serve as mentors for our youth helping them transition into healthy adulthood: priceless.</p>



4-H and United Way partnership

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
224 youths	15,200 hours	<p>United Way Board of Directors learn much about the current 4-H program. These individuals are typically influential in the community, and can help educate others.</p> <p>Through United Way support, 4-H families learn that our community cares about them, and that 4-H is removing barriers to participation by providing dues waivers and reimbursement scholarships for 4-H families who meet the free lunch income guidelines.</p> <p>The 4-H Clover Kids program for youths 5 to 7-years-old is an entry program into 4-H. Through United Way support, the program costs are vastly reduced to encourage families to enroll.</p>	<p>One United Way board member, who is a banker, encouraged Adair County 4-H to apply for grant funding through their bank, which was approved, and will be used to offset expenses for transportation and meals for 4-H camp.</p> <p>4-H families are able to join 4-H, and reap the benefits, regardless of their ability to pay.</p> <p>Recognition, in the form of conferences, workshop and camp scholarships, are provided through United Way funding. Members submit a record of their learning experiences in 4-H. Scholarships are awarded to those members whose records merit the award. The scholarships range from \$75 to \$285. Through writing this record, youth increase their writing skills, reflect on their experiences, and are more motivated to succeed.</p>	<p>When you support MU Extension, you are providing youth with positive youth development experiences that they may not otherwise be able to.</p> <p>When 4-H members participate to the fullest in 4-H, they grow and develop beyond their peers. In a longitudinal study conducted by the Institute for Positive Youth Development at Tufts University, the report found that 4-H participants had better grades, were more behaviorally and emotionally engaged with school, and were more likely to see themselves going to college. Specifically, the respective odds that 4-H youth have “B and above” grades, have high academic competence, and expect to go to college are 2.68 times higher than for comparison youth.</p> <p>4-H youths are more civically active and make more community and civic contributions than do youth participants in other out-of-school-time activities.</p> <p>4-H youths were 1.1 times more likely to be in the lowest trajectories for both depressive symptoms and risk/delinquent behaviors.</p>



Below: Recognition is an important part of positive youth development.



Club leader orientation

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2016.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
18 adults	45 hours	Effective mentoring. Support for club programming. Missouri 4-H policies and best practices. Risk management strategies. Available resources and where to find them.	Club leaders are better able to strike a delicate balance between management and support of youth leaders. Volunteers plan and manage safer events when following risk management strategies. Volunteers effectively carry out the mission and policies of Missouri 4-H.	When you support MU Extension, you enable 4-H mentors to better provide the environments and culture shown by the research to have the following outcomes: In general, 4-H youths appear to have higher levels of the developmental assets that the 4-H Study has found most important in promoting Positive Youth Development (PYD): relationship with others, and in particular, caring, competent, and committed adults, such as parents, teachers, and mentors. In Grade 11, 4-H youths reported they had more mentors than did comparison youth (Lerner, 2009); and research shows that youths with more support systems develop increased elements of positive youth development compared with youths lacking in connections with caring adults.



4-H school enrichment

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
300 children	Classroom teachers report that students now know that chicks hatch from eggs and eggs that are not hatched do NOT become chickens.	Students became adept at observing and journaling about what they saw. Students also improved non-fiction reading skills to learn more about chicks.	When you support MU Extension, students learn to practice skills such as decision-making, getting along with others, self-responsibility, planning and organizing, and improving their knowledge of general science and technology place students on a path towards successful careers. Interest in science is a predictor for youth to choose science-related careers, future scientists are critical to our county, state, national and global economy.
Total hours of collective workshop participation in 2016.	Students are aware that it takes 21 days for a chick to develop.	Students also became more responsible as they cared for the eggs and chicks.	4-H science programs reach more than five million youth with hands-on learning experiences; these experiences will address our nation's critical challenge of developing a long-term solution for improving science literacy and aptitude.
3,000 hours	Students understand how to candle an egg and how to use an incubator and what it is used for. Students also learned the life cycle of a chicken as compared to other living creatures.	Students were more responsible and quieter in the classroom when they were raising chicks. Students also advised guests to the classroom about being quiet and washing hands after handling eggs or chicks.	As a result, 4-H participants are three times more likely to go into science related careers than similar peers (Lerner and Lerner, 2008).

4-H Clover Kids clubs

Michelle Klem, 4-H youth development specialist



Number of Adair County learners.	Total hours of collective workshop participation in 2014.	What did they learn?	What action did they take?	How does this work make Adair County and Missouri better?
24 youths	408 hours	Younger children also have opportunities to participate in 4-H through the Clover Kids program. The program is designed specifically for youths 5 to 7. It is developmentally appropriate, non-competitive, focuses on cooperation and introduces youth to a wide variety of 4-H projects that they may learn more about throughout their years in 4-H.	Participants are better prepared to enter into the 4-H Club program at eight years of age. They can lead pledges, participate in community service and are in a better position to make choices on what projects they want to pursue.	When you support MU Extension, Adair County youth are enriched at a younger age, giving them an extra three years of positive youth development experiences, laying the groundwork for these young people to be better prepared for a productive future, a commitment to help others in the community, and to be community leaders as adults.



Hannah Chang, Adair County 4-H Ambassador and Holly Hatfield, regional representative on the state 4-H Council assist Adrienne Tucker, Mizzou student employed at the MU 4-H Center for Youth Development during the Commodity Carnival at the NEMO Fair.



Continuing education

Information provided by the University of Missouri

Office of Continuing Medical Education and Physician Lifelong Learning (CME/PLL)

CME/PLL serves both MU Extension and the MU School of Medicine by educating physicians and other health care professionals and enhancing the standard of health care to improve the health of the people of Missouri and beyond through health education, wellness promotion and health care quality improvement/performance improvement initiatives. Additionally, CME/PLL facilitates and manages health care quality improvement projects for the University of Missouri Health Care system and the MU School of Medicine Springfield clinical campus. In FY 2016, CME/PLL offered 1,879 noncredit programs, courses and educational activities with 31,779 participants. Eight of those were from Adair County. <http://medicine.missouri.edu/cme/about>

Fire and Rescue Training Institute (MU FRTI)

MU Extension's Fire and Rescue Training Institute (MU FRTI) provides comprehensive continuing professional education and training to Missouri's fire service and emergency response personnel. The institute has a direct impact on the well-being and protection of Missouri's 29,000 firefighters and the 6 million citizens they serve. Courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation, as well as fires. In FY2016, MU FRTI trained firefighters representing all 114 Missouri counties for a total enrollment of 13,828 fire and emergency responders. Fifty-eight from Adair County participated. Student enrollment numbers rose by 6 percent in FY 2016 as compared to the previous fiscal year. MU FRTI served 1,360 fire departments, organizations or agencies in FY 2016. <http://www.mufrti.org>

Law Enforcement Training Institute (LETI)

LETI brings state-of-the-art, certified, professional training to law enforcement officers and continuing professional education to a wide spectrum of other criminal justice and public safety professionals. For more than 60 years, the institute has been the state's leader in providing vital training and education services to Missouri's 17,000 in-service personnel and police recruits annually. Working with national, state and local agencies from 31 states, LETI provided basic and advanced animal cruelty investigations training. LETI also conducted 17 armed intruder/personal safety presentations to extension personnel and council members. LETI led several presentations to civic organizations, churches and businesses throughout the state on a variety of topics, including personal safety and armed intruder response. Eleven from Adair county participated. <http://leti.missouri.edu>

MU Conference Office

The MU Conference Office provides high-quality, professional, full-service meeting management for a variety of noncredit educational programs, such as conferences,

workshops, seminars and symposia. Whether a meeting is hosted on campus, in out-state Missouri or anywhere in the world, the office's professional staff provides assistance to create the best learning environment for participants. In FY 2016, 12,215 Missourians registered to attend MU Extension conferences for teacher education in math, science and writing; crop management, and agricultural lending, as well as statewide youth leadership programs.— FCCLA and 4-H. Ninety from Adair County participated. <http://muconf.missouri.edu>

MU Nursing Outreach

Keeping Missouri nurses up to date with the knowledge and skills they need to effectively provide care and fully participate in the state's health care efforts is a primary goal for Nursing Outreach. In FY 2016, Nursing Outreach helped 2,094 health care professionals participate in its programs and reached another 881 nurses through co-sponsored multidisciplinary programs. Fourteen were from Adair County. Nursing Outreach serves a predominantly rural health care audience with high-quality, affordable continuing education programs using face-to-face, web-based and online delivery methods. A full 92 percent of Nursing Outreach's Missouri participants reside outside the metropolitan St. Louis and Kansas City areas. <http://nursingoutreach.missouri.edu>

Veterinary Medical Extension and Continuing Education (VMECE)

Veterinary Medical Extension and Continuing Education (VMECE) focuses on issues that have widespread impact on Missouri veterinarians and livestock owners. Factors such as disease risks, rising input costs and increasing regulations all impact the livelihood of farming operations. The primary goal of VMECE is to provide up-to-date information and consultation to veterinarians and livestock owners so they are better prepared to address these challenges. For FY2016, VMECE provided continuing education for veterinarians seeking continuing education credit to renew their veterinary licenses. Team members also presented information about production-related topics or animal disease at more than 70 meetings across the state. <http://cvm.missouri.edu/continuing-education.htm>

Missouri Training Institute (MTI)

The Missouri Training Institute provides continuing education, custom-designed training programs and consulting services for business and industry, public and non-profit organizations and educational institutions. Training programs include subjects such as human resource management, supervision, management, leadership, team building and other business-related topics. The institute's consulting services include curriculum design, human resources, strategic planning, board development and facilitating meetings and retreats. In FY 2016, 11,997 people enrolled in the institute's 421 programs; 21 were from Adair County. <http://mti.missouri.edu>



Adair County, Missouri

The County at a Glance



Population: 25,642

- **UM Students: 89**
- **UM Alumni: 495**
- **UM Employees: 33**
- **UM Salary & Retirement Income: \$994,811**
- **UM State Tax Revenue: \$34,923**
- **UM Federal Tax Revenue: \$172,004**

UM Students from the County in 2016

- 89 students
 - 67 - MU
 - 6 - UMKC
 - 12 - Missouri S&T
 - 4 - UMSL
 - 64 - Undergraduates
 - 25 - Graduates
 - 75 - Full-time students
 - 14 - Part-time students

UM Employees and Retirees Residing in the County in 2016

- 33 people employed by UM
 - 22 - MU
 - 1 - UMKC
 - 1 - UMSL
 - 9 - UM Health Care
- 7 UM Retirees and Beneficiaries

UM Alumni Residing in the County in 2016

- 495 alumni
 - 376 - MU
 - 55 - UMKC
 - 28 - Missouri S&T
 - 36 - UMSL
- 214 Selected School Alumni
 - 9 - Medicine
 - 35 - Nursing
 - 18 - Health Professions
 - 11 - Dentistry
 - 12 - Pharmacy
 - 1 - Optometry
 - 7 - Veterinary Medicine
 - 50 - Agriculture
 - 36 - Engineering
 - 35 - Law

UM Alumni Teaching K-12 in the County in 2016

- 20 teachers
- 8% of all county teachers
- 2 principals and administrators
- 14% of all county principals and administrators

UM Services Received in the County in 2016

- 1,917 patients seen at UM Health Care, with \$882,864 of uncompensated care.
- 1 patient seen at the UMSL Center for Eye Care with an average of \$52 per patient in uncompensated care.
- 1 patient seen at the UMKC School of Dentistry with an average of \$54 per patient in uncompensated care.
- 16,545 contacts with MU Extension through MU Extension events held in district counties.



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 2016, based on the best available data. Data sources include Missouri Office of Administration • UM IR • Office of Social and Economic Data Analysis (OSED) • Center for Applied Research and Environmental 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

