Macon County
Return on Investment
6.46 : 1 Ratio

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, national origin, sex, sexual orientation, gender identity, age, genetics information, disability or status as a protected veteran.
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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,

Marshall Stewart, Ed.D.
Vice Chancellor for Extension

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

EQUAL OPPORTUNITY/ADA INSTITUTIONS
Macon County, Missouri

The County at a Glance
- UM Students: 70
- UM Alumni: 459
- UM Employees: 51
- Population: 15,527

UM Students from the County in 2016
- 70 students
  - 51 - MU
  - 7 - UMKC
  - 10 - Missouri S&T
  - 2 - UMSL
- 56 - Undergraduates
- 14 - Graduates
- 55 - Full-time students
- 15 - Part-time students

UM Alumni Residing in the County in 2016
- 459 alumni
  - 387 - MU
  - 32 - UMKC
  - 22 - Missouri S&T
  - 18 - UMSL
- 226 Selected School Alumni
  - 7 - Medicine
  - 25 - Nursing
  - 18 - Health Professions
  - 4 - Dentistry
  - 5 - Pharmacy
  - 2 - Optometry
  - 9 - Veterinary Medicine
  - 98 - Agriculture
  - 41 - Engineering
  - 17 - Law

UM Employees and Retirees Residing in the County in 2016
- 51 people employed by UM
  - 19 - MU
  - 32 - UM Health Care
- 16 UM Retirees and Beneficiaries

UM Services Received in the County in 2016
- 2,673 patients seen at UM Health Care, with $1,039,527 of uncompensated care.
- 5 patients seen at the UMKC School of Dentistry with an average of $54 per patient in uncompensated care.
- 4,538 contacts with MU Extension through MU Extension events held in district counties.
- University of Missouri Health Care’s Missouri Telehealth Network provided services to 41 patients at 1 site.

UM Alumni Teaching K-12 in the County in 2016
- 33 teachers
- 16% of all county teachers
- 2 principals and administrators
- 17% of all county principals and administrators

UM Footprint in the County
Bertha Brown Farm, Macon County MU Extension Center
UM Research Expenditures Funded by Federal and Private Sources

- Between FY2010 and FY2015, UM brought in more than $1.1 billion in federal and private research funds.

Economic Development Highlights

- With $3.2 billion in total revenue, UM would have been the 14th largest publicly held Missouri-headquartered company in the state in 2016.
- With approximately 32,000 employees in the state, UM was Missouri’s 2nd largest employer in 2016.
- In 2014, UM’s $147.7 million in federal research expenditures represented 94.5% of these expenditures at Missouri public universities.
- In 2015, UM’s $34.9 million in National Science Foundation (NSF) awards represented 84% of all NSF awards made to Missouri public universities.
- UM earned $16.4 million in licensing income in 2016.
- UM received 184 new invention disclosures in 2016.
- 3 startups were created around UM technologies in 2016.
- UM was issued 39 U.S. patents and filed 63 new U.S. patent applications in 2016.

Electronic Services to the State in 2016

- The Missouri Research & Education Network (MOREnet) provided internet connectivity and technical services to members that include:
  - 59 higher education institutions with more than 238,000 students.
  - 521 K-12 schools serving more than 838,000 students and 75,000 faculty.
  - 121 public libraries connecting 322 library buildings that serve 5.32 million Missourians.
  - Serving the State Office of Administration, several municipalities and various other eligible organizations.
- MOREnet procured over $20 million worth of telecommunications services from companies doing business in Missouri.

Financial Aid Provided to UM Students in 2016

- $916.7 million provided to 58,251 total students
  - $476.3 million (28,288 students) - MU
  - $193.7 million (11,144 students) - UMKC
  - $114.1 million (7,722 students) - Missouri S&T
  - $132.6 million (11,097 students) - UMSL

Education Highlights

- UM enrolled 44.8% of first-time undergraduates attending four-year public institutions in Fall 2014.
- UM awarded 43.2% of the 1,480 Research/Scholarship Doctor’s degrees earned in Missouri in 2013-2014.
- UM awarded 25.7% of the 3,252 Professional Practice Doctor’s degrees earned in Missouri in 2013-2014.
- UM awarded 55.1% of the 31,016 bachelor’s or higher degrees awarded by Missouri’s four-year public institutions in Academic Year 2013-2014.

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.
A Message from the
Macon County University of Missouri
Extension Council Chair

Dear Citizens of Macon County:

It is an honor and privilege to present this 2016 Annual Report of the University of Missouri, Macon County Extension Council, to the citizens of our County.

We are grateful to the Extension staff, who have dedicated their profession to making this a successful year, along with the time and talents of many volunteers, community leaders, and council members.

It is the goal of the Macon County Extension Council, through the University of Missouri, to provide our citizens with the many educational opportunities to support their businesses, families and community.

The knowledge provided through the following programs:

1.) Community Development
A.) Works on grants, community leadership skills.

2.) Business Development
A.) Small Business Technology Development Center: Which includes small business startup, financial analysis, marketing, human resources counseling.

B.) Missouri Procurement Technical Assistance: Assistance for small business to learn and navigate through government contracting.

3.) Agricultural Programs and Assistance
A.) Livestock Production Assistance: Livestock Management-Production.

B.) Crop Management: Which includes Crop Management-Production, farm structures, water systems.

C.) The Master Gardeners Program: Assists individuals to learn sustainability of growing produce and taking care of plants.

D.) Horticulture Program: Educates on landscaping, trees, vegetables, flowers, houseplants and fruits.

E.) Agriculture Business: Assists in Farm Management, commodity marketing, risk management, laws and policies and product marketing.

4.) Human Environmental Science
A.) Family Nutrition Education Program: Educates on Diet, Types of Food in School Curricula.


C.) Human Development and Family Studies: Educates Individuals and families on relationships and growth across their lifespan.

5.) 4-H Youth Development Program
A.) It’s about young people making new friends and memories while preparing to be future leaders - from both rural and urban areas!

It is our sincere wish that you will find within this report an understanding of the ways in which your Extension is striving to provide essential services to our citizens. We are looking forward to another great year.

Lisa Tull
Macon County Extension Council Chair

Chris Shoemaker
Macon County Program Director
History of Extension

University of Missouri Extension is an innovative leader—using science-based knowledge to engage people in understanding change, solving problems and making informed decisions.

Federal Acts

University of Missouri Extension has its roots in the federal acts that enabled the university to deliver the practical benefits of education and scientific research to the people to improve their economic prospects and quality of life.

The Morrill Act of 1862 established the University of Missouri as a land-grant university. The acts gave grants of land to states with the provision that proceeds from the sale of those lands be used to establish public colleges or universities to educate citizens in agriculture, home economics, mechanical arts and other practical professionals. The Morrill Act of 1890, which established Lincoln University provided additional funds to ensure that the land grants were open to all citizens without regard to race.

In 1887, the Hatch Act established agricultural experiment stations at land-grant universities. The University of Missouri currently conducts research to aid agricultural producers and to ensure a safe food supply at research farms and centers around the state.

The Smith-Lever Act of 1914 established the Cooperative Agricultural Extension Service, a partnership among federal, state and county governments allowing universities to extend their programs to all people—not just students.

Extension in Missouri

Initially, the Extension program concentrated on working with farmers and their families, which comprised the majority of the nation’s population, to improve their quality of life and standard of living. Extension workers demonstrated how to produce more and better varieties of agricultural commodities; how to benefit from better nutrition, clothing and housing; and how to work together to bring about major improvements, such as electric cooperatives.

As the population shifted to the cities, Missouri’s extension program expanded to include programs for urban populations. Currently, those include after-school youth leadership programs in federal housing developments, food and nutrition education for limited-resource populations and labor education delivered through interactive television.
In 1927, 4-H became a part of cooperative extension. Today, one in five Missouri youths, ages 5-19, participate in a 4-H educational program. The University of Missouri 4-H Center for Youth Development provides education in leadership, citizenship and community service through nearly 1,100 4-H clubs, school enrichment programs, special-interest activities, conferences and camps. More than 17,000 adult and youth volunteers lead hands-on projects in science, conflict resolution, workforce preparedness, computer science and 60 other topics.

County Extension Councils

In 1955, state legislation required counties to establish county extension councils to advise the University of Missouri on educational programs. Today, some 2000 citizens volunteer their time and effort to assess local educational needs and to work with extension faculty in delivering and evaluating the programs. Appropriations from county commissions provide operating funds for county extension offices and secretarial support.

Continuing Education

The University of Missouri took a major step forward in 1960 when it combined continuing education and cooperative extension programs. Today, continuing education programs in fire and rescue training, law enforcement and many other topics are essential to the livelihood of Missourians.

In 1972, the University of Missouri and Lincoln University established a unified extension program—the nation’s first such partnership between two state land-grant universities. Technical assistance for families on small farms and leadership education for African-American youths are results of that successful partnership.

In 2004, the Office of the Provost at the University of Missouri-Columbia assumed administrative responsibility for the university’s statewide extension program.
PURPOSES OF COUNCILS

The councils have four purposes assigned by law:

Make recommendations and suggestions to the University concerning the extension programs.
Make recommendations and suggestions to the University concerning the appointment or removal of extension personnel.
Arrange for and administer the county’s share of the cost of the extension services over which the council has jurisdiction.
Receive, hold and/or sell real and personal property reasonably required for the extension program.

University of Missouri Extension Council
Macon County 2016

The extension council consists of twelve (12) elected members and two (2) appointed members. Appointed members consist of one county commissioner, one member from a farm organization which is Farm Bureau of Macon County. The council members are the Lisa Tull-Chair, Matt Bergfield-Vice chair, Carol Burstert-Treasurer, Amy Coleman-Secretary. Other members are Judi Riordan-Lolli, Greg Robertson, Barbara Primm, Ruth Larrick, Russell Kohl, Danny Primm, Jenn Gordan, Fred Seibert.
Chris Shoemaker  
County Program Director  
Business Development  
Specialist MOPTAC  
shoemakercl@missouri.edu

Tracie Moore  
4-H Youth Specialist  
mooretra@missouri.edu

Jennifer Fortna  
Youth Program Assistant  
fortnaj@missouri.edu

Macon County Financials  
2016  
County Appropriation $45,500

Expenses:
  County Office Support $17,480
  Payroll Exp. / Benefits $  1,691
  YPA Salary $ 2,866
  Total $22,037

  Rent $  8,400
  Telephone $  1,409
  Property Insurance/Bond $  561
  Program Development $ 1,500
  Utilities $  1,915
  Travel $  3,000
  Storage Facilities $  360
  Copier $  2,756
  Supplies $  2,919
  Total Expenses $ 22,820

Total Expenditures $44,857
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The registration processes for state and federal contracting along with potential opportunities that pertains to their product or services offered.

Possible contracts that give them opportunities to bid on and ultimately receive contracts from their bid proposals.

**Awards Amount**

$5,693,495.00

This is job creation along with increasing small business opportunities in Rural Northeast Missouri.

There were 456 awards for a total of $46,655,160.00. There were 124 clients counseled with 634 counseling sessions.

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.
Missouri Small Business Development Center
Rising Star of Entrepreneurship Award, 2016
Northeast Region: Concrete Pier Systems, LLC, owned by Joe and Debbie Timbrook, located in Hunnewell.
Counselors – Charles Holland, Carolyn Chrisman and John Woodson,
Concrete Pier Systems, LLC manufactures a construction component for pole barns that extends the life of a pole to 100 years or more. The product is patented and has not been marketed outside the regional area. The Timbrook’s purchased the business and have built a new manufacturing facility in Shelby County with the goal of selling the product nationwide and will look at exporting within two years. Other IP is being developed to increase structural rigidity and ease of use. The company looking to hire 12 people within the next calendar year.
Owners, Joe and Debbie Timbrook are Monroe County residents.
### 4-H:

**Tracie Moore, 4-H youth development specialist**

**Community 4-H Clubs**

<table>
<thead>
<tr>
<th>Number of Macon County Learners</th>
<th>Total Hours of Collective Workshop Participation 2016</th>
<th>What Did They Learn?</th>
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<th>How Does This Work Make Macon County and Missouri Better?</th>
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<tbody>
<tr>
<td>4-H youth development in Macon County is a community of 181 youths building life skills, engaging in science and connecting to communities. 4-H youth are equipped with the knowledge, skills, attitudes and health for the 21st century workforce.</td>
<td>181 members x 1 hr per month x 12 monthly club meetings = 2,172 hours of community club work. 4-H offers over 100 different project areas for members to enroll in such as electricity, robotics, beef and cake decorating. To be recognized as a member in good standing each member must also complete at least one project in which they work with a registered volunteer for at least six hours per year. 181 members x 1 project each x 6 project meeting hours = 1,086 hours spent doing project work with an adult 4-H volunteer. Most members take around three different projects and spend more than the six required hours with a volunteer.</td>
<td>The five Macon 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.</td>
<td>4-H members continue to build on life skills that will benefit them through out their lives.</td>
<td>4-H connects kids to college and a higher quality of life. Missouri 4-H members are twice more likely to have been on a college campus than their non-4-H peers. MU is by far the campus most frequently visited and 4-H is the second most reported reason to be on the MU Campus (Lerner, 2008). MU Extension 4-H connects 8,700 young people ages 8 to 18 to University of Missouri campuses and faculty. Being on a campus is a predictor of youths going on to higher education (Hoover, 2006). 31 Macon County young people ages 8-18 participated in 4-H events on the MU Campus These students are more likely to go to college and enjoy increased financial success for themselves and their offspring, being better consumers, improved quality of life through more opportunities for leisure and hobbies, improved health for themselves and their children (Porter, 2003), being more likely to vote as adults, and being more likely to contribute to their community (Lerner, 2009; Zaff et al, 2003). Youths who earn their bachelor’s degree increase annual earnings by $2 million over their lifetime (NACUBO, 2012).</td>
</tr>
</tbody>
</table>

One of every five Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2016.
### 4-H

**Tracie Moore, 4-H youth development specialist**

**Volunteer Support**

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<td>Macon County 4-H members are supported by 106 registered adult volunteers.</td>
<td>Missouri 4-H volunteers responding to a survey report they contribute on average 100 hours per year. Valuing their time at $21.31 per hour, based on average Missouri incomes, the contribution of Macon 4-H volunteers was worth more than $225,886.00 in 2016!</td>
<td>Volunteers come away from their experience learning as much from the members as they taught. They learn how members interact and what motivates youths. Each volunteer must take a one-time Volunteer Orientation course. During the orientation they learn about the history of 4-H, youth development, the 4-H philosophy regarding competition and how 4-H teaches life skills and character to our youths.</td>
<td>Volunteers create, support and are part of the 4-H community. 4-H volunteers organize club meetings, project meetings, fundraisers and events. These dedicated people help our youths learn about project related skills such as using a sewing machine to make a dress while at the same time learning important lifelong skills such as responsibility.</td>
<td>Volunteers create, support and are part of the 4-H community. More important, these adults serve as mentors for our youths helping them transition into caring and contributing adults throughout our communities.</td>
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Volunteers create, support and are part of the 4-H community. More important, these adults serve as mentors for our youths helping them transition into caring and contributing adults throughout our communities.
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<td>Eighty-four 4-H members participated in the annual Achievement Day. Members competed in demonstration contests, public speaking contests, personal development interviews, 4-H royalty interviews, fashion revue, a table setting contest, collection displays, team skill-a-thon and judging contests for ages 5-18.</td>
<td>84 participants x 3 hours = 252 hours</td>
<td>Achievement Day assists 4-H youths in improving problem solving, communication and organizational skills as youths develop and present demonstrations, public speeches and judging class reasons. They also enhance teamwork skills as they work together to complete a task during a team contest called skill-a-thon.</td>
<td>4-H also helps youths prepare for future job interviews by offering different contests such as personal development, royalty, table setting and collections displays where each participant will be interviewed by a single judge or a panel of judges.</td>
<td>The 4-H Study of Positive Youth Development discovered that, when compared to other youths, young people involved in 4-H have higher educational achievement and higher motivation for future education. In addition, youth in 4-H make more civic contributions to their communities than youth in other out-of-school programs.</td>
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4-H
Tracie Moore, 4-H youth development specialist
Regional and State 4-H Events

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</table>
| Some events the Macon County 4-H members attended include:  
State 4-H Teen Conference—6 members attended  
State 4-H Congress—6 members attended  
State Public Speaking—7 members attended  
State Shooting Sports Contest—16 members attended  
State Livestock Judging Contest—4 members attended  
State Demonstrations—13 members attended  
State Fashion Revue—6 members attended  
Missouri State Fair—20 members attended | 4-H members spend months working in their project areas preparing for county, regional, state and national contests or events. | 4-H offers many opportunities for youths to learn life skills and grow into contributing adults. | Macon County was well represented at regional and state 4-H events. Members also demonstrated their skills learned through their 4-H projects at many contests. | Community service is integral to positive youth development programs. Young people in 4-H are engaged in twice as many leadership roles than their non-4-H peers (Lerner, 2008). |

Teen Conference
## 4-H

**Tracie Moore, 4-H youth development specialist**

**Show-Me Quality Assurance**

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<td>Forty-seven youths attended the 2016 program.</td>
<td>Some 4-H members will own or manage an animal for a project. The Show-Me Quality Assurance program is a two hour program geared toward 4-H youths enrolled in food animal projects such as beef, rabbits, poultry, sheep, swine, dairy and goats. Members enrolled in a food animal project will take the course twice between the ages of eight and thirteen and once again when they are fourteen. They will spend at least six hours in the Show-Me Quality Assurance program.</td>
<td>Information covered during the course includes daily care and management, animal handling, animal identification, reading feed labels, biosecurity, proper injection locations, carcass quality and medication withdrawal times.</td>
<td>4-H members who are enrolled in animal projects take on a big role of responsibility. Members not only take care of their animal’s daily well-being but also keep breeding records, medical records and expense records.</td>
<td>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.</td>
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A 4-H member learning how to give an injection.
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<td>166</td>
<td>Each exhibitor may put in 100 hours, preparing, practicing, helping others and exhibiting at the county fair.</td>
<td>4-H can also offer a taste of entrepreneurship to many youths through projects such as electricity, cake decorating, beef, computers, home environment and welding. The Macon County Fair gives 4-H members the opportunity to promote their work by exhibiting in shows, contests, demonstrations, displays and the Live-stock Sale.</td>
<td>During the fair 1,039 ribbons were awarded. The Danish system of judging is used at the fair where the exhibit is evaluated against a standard and recognition is given to the exhibitor by how close they have come to meeting that standard. A blue ribbon indicates the youth has excellent knowledge in the project area that exceeds the standard. A red ribbon indicates the youth has some knowledge in the project area and meets the standard. A white ribbon indicates the youth has little or no knowledge in the project area. At the fair 88 percent of the entries received blue ribbons, 12 percent received red ribbons and 0 percent received white ribbons. Six hundred twenty seven items were exhibited in the Expo Building during the fair. One hundred ninety three of the blue ribbon inside-items were chosen to be exhibited in the 4-H Building at the Missouri State Fair, indicating a high level of achievement. Youths will use the judge’s comments as valuable information to help them improve next year’s projects.</td>
<td>Members who exhibit at the fair use the judge’s comments as valuable information to help them improve and grow for the future. Youths who exhibit an item inside the Expo building at the fair participate in conference-style judging. Conference judging allows the member and judge to evaluate the exhibits together. During the evaluation, the judge and exhibitor talk directly with each other. Through the two-way conversation the judge can give suggestions to improve the exhibit and the exhibitor may explain problems encountered and solutions as well as goals reached and any knowledge gained. Conference-style judging gives the exhibitor an opportunity to learn from the judges experiences and knowledge and to start making future plans.</td>
</tr>
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**Waiting on conference judging**
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| **20** Macon Countians attended 4-H Summer Camp at Camp Si Colborn in Mark Twain State Park. | Summer camp is three days. **20** campers x 30 programing hours spent at camp = **600** hours. | Evaluation has shown 4-H camp is helping youths develop skills related to decision making, wise use of resources, useful or marketable skills and self-responsibility. When campers have been asked about the most important thing they had gained from attending 4-H camp, many responded with answers related to accepting responsibility, being more independent, interacting better with people, ability to make new friends, the ability to get along with people, teamwork, decision making and self-confidence. | Parents noted that when their children returned home from camp they had better attitudes, flexibility, improved responsibility and a better tendency to help out as a result of attending 4-H Camp (Klem, 2006). | 4-H members regardless of their background, socio-economic status, race and gender, thrive through the health/safety education and experiences they receive through 4-H programming. Young people in 4-H are
- less likely to have sexual intercourse by grade 10,
- 56 percent more likely to spend more hours exercising or being physically active, and
- shown to have had significantly lower drug, alcohol and cigarette use than their peers (Lerner, 2008). |

**Camp Photos of Camp Si Colburn In Mark Twain State Park**
### 4-H

**Tracie Moore, 4-H youth development specialist**  
**Hatching Chicks in the Classroom**

<table>
<thead>
<tr>
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<tr>
<td>136 students in Macon County participated in 4-H school enrichment programs in 2016.</td>
<td>Pre-incubated eggs are delivered to the classroom on a Monday where students turn the eggs twice daily until Friday. The eggs hatch the next Monday and stay in the classroom for the week.</td>
<td>Students in classrooms that participate in 4-H embryology learn about science, life, responsibility, decision making and teamwork while working their way through activities and lesson plans provided to the teacher or volunteer by the extension office.</td>
<td>4-H school enrichment programs are short-term educational experiences that supplement learning in the classroom. Most are led by teachers or 4-H volunteers. The most popular 4-H school program in Macon county is “Hatching Chicks in the Classroom”.</td>
<td>Missouri 4-H members are engaged with science activities. The advantages of 4-H participation include the development of positive attitudes about science and more participation in science-focused activities during out of school time.</td>
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*Duplicates not removed*
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<tr>
<td>Twelve youth attend the Drone program this fall.</td>
<td>Drone Discovery was a day program lasting from 9:00am until noon. 12 workshop participants x 3 programing hours = 36 hours.</td>
<td>From the evaluation that was given at the end of the workshop participants learned about the different types of drones, flight dynamics, different ways drones are used and how to program a drone to fly.</td>
<td>Young people in 4-H are three times more likely to be interested and pursue science-based careers than their non-4-H peers.</td>
<td>4-H is growing future scientists. Our nation needs young people prepared to live and work in a world that no one can imagine. They will work in jobs that do not yet exist, using technology that has not been invented and solve problems that have not yet been identified.</td>
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Number of Macon County Learners | Total Hours of Collective Workshop Participation 2016 | What Did They Learn? | What Action Did They Take? | How Does This Work Make Macon County and Missouri Better?
--- | --- | --- | --- | ---
15 Macon County Learners involved in the Experience Works program | 15 Hours | Participants were given an overview of the growing health impact of falls in older adults, i.e.: Falls are the major cause of injury and death for older adults. Falls are the leading cause of injury hospitalization in the US. 1/3 to 1/2 of older adults acknowledge their fear of falls. Fear of falling is associated with: - depression - decreased mobility and social activity - increased frailty - increased risk for falls as a result of deconditioning The Matter of Balance program is an educational effort to teach vulnerable populations about what they can do to prevent falls. Topics covered in this class include: How to reduce fear of falling. What things increase an individual’s risk for a fall. Increasing participants self efficacy to prevent a fall by environmental changes and physical exercises. Additionally some of the exercises of the class were demonstrated. Participants participated in sample exercises. They expressed interest in attending a class, received contact information for the local extension office, asked for and were mailed additional information regarding fall prevention. Previous classes held in Macon County showed: - People report feeling more confident. - People report learning new ideas for prevention. - People report and appear happy about their improvement(s). - Leaders observe improvements in class. - Leaders run into former participants and learn about continued success(es). Teaching middle age and older adults about how to prevent falls now and in the future can: - Reduce injuries and emergency room visits. - Reduce brain injuries from falling and fatalities. - Reduce hospitalizations due to falls. - Help older adults to remain living in their own homes. - Reduce medical costs for individuals, and public and private insurers. - Lessen the impact on family caregivers lives.
<table>
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<th>Number of Macon County Learners</th>
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<td>27 divorcing parents with children under the age of 17</td>
<td>A 2.5 hour court ordered class for all divorcing parents with kids still at home. The program reviews the five predictors of positive outcomes for children when their parents’ divorce. Through class discussion and viewing video vignettes, parents are reminded of the importance of keeping their children out of the conflict.</td>
<td>Avoiding conflict in front of the child improves the child’s outcomes. Open &amp; frequent communication between parents must be maintained. Children need to know: both parents love them &amp; will remain in their lives and that the divorce isn’t the child’s fault. Importance of listening to their children</td>
<td>Parents will listen to what their children have to say more effectively. Participants will communicate directly with one another rather than sending messages to the other parent via the children. Parents will be more mindful of reassuring their children of their love and continued presence. Parents will exercise caution when introducing new love interests to their children. Parents will develop an effective parenting plan.</td>
<td>Divorce may be the first experience with grief and loss. Parents who listen frequently and effectively will be able to assist their children through the grief process with greater confidence. When parents “do” divorce most effectively, their children experience fewer disruptions socially, educationally and physically. Parents who continue to co-parent after the divorce with frequent honest and open communication will produce kids in a more balanced and effective fashion.</td>
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### Number of Marion, Ralls, Lewis, Macon Monroe, Shelby County Learners

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<tr>
<td>770 Northeast MO taxpayers that include:</td>
<td>All volunteers passed Standards of Conduct and Basic certification test, Intermediate test, and/or advanced test. Evaluations show participants learned:</td>
<td>Purchased necessities, keeping money in their county. • Paid bills • Reduced paid/off debt • Established/increased emergency savings • Repaired/replaced</td>
<td>When you support MU Extension’s MoTax Initiative Program, participants: - Save an average of $200 in tax preparation fees per year - avoid high-cost refund anticipation loans - Learn basic financial management strategies. This leads to increased cash flow and reduced family debt, benefiting other community members by reducing demand for public assistance, stabilizing the county tax base and stimulating the economy. This change begin in the taxpayer’s community, and continues through federal and state tax refund dollars and dollars from tax credits.</td>
</tr>
<tr>
<td>• Low to moderate income working families • Students • Senior citizens • Single parent households</td>
<td>• What credits they are eligible for • How to determine the amount they should have withheld from all income sources • About finances from using the VITA program (Volunteers go over financial handouts clients are given on credit reports, predatory lending, budgeting, saving and more.) • About tax planning, options and future deduction possibilities</td>
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<tr>
<td>• 1120 hours of collective learning by NE MO residents</td>
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<tr>
<td>• 41 VITA volunteers Provided 1230 hours to the project (a value of $26,898)</td>
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As a result of this program, taxpayers in NE MO received $810,141 in federal refunds and $288,315 in Earned Income Credits.
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<td>8 participants</td>
<td>44 hours (5.5 hours x number of county participants)</td>
<td>Topics for the seminars held at Kirksville, Hannibal, and Mexico were: Ag Site Assessment, Macro Economics, Latest in Land Values and Rental Rates, Crop &amp; Livestock Outlook, Update on Taxes and Other Legal Issues, Livestock Risk Insurance, the Affordable Care Act, and new Extension curriculum. Lenders received the 2016 Missouri Farm Financial Outlook book which included budgets for all major crop and livestock enterprises in the state.</td>
<td>Lenders will help their agricultural customers to use the information and tools they were given. Specific actions include using the: Budgets; Crop &amp; Livestock Outlook; Rental Rates and Land Values; Tax and Ag Site Assessment information.</td>
<td>The lenders in attendance manage 6039 loans totaling $637,960,000. 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. 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.</td>
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## Ag Business

**Program** FFA Career Development Experiences  
**Joe Koenen and Darla Campbell**

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</table>
| **5** youth and **1** adult instructor | **48 hours**  
(8 hours x 6 participants) | Participants had Career Development Experiences (CDE) in the following areas:  
Farm Business Management  
Meats  
Equine  
Livestock  
Poultry  
Dairy Cattle  
Dairy Foods  
Forestry | This event helps prepare youth for District and State contests, as well as real life careers.  
It also meets DESE testing requirements for seniors who have been in a specific area of vocational agriculture for three or more years. | 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. 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. |

A total of **282** youth and **19** Vocational Agriculture Instructors participate with assistance from **42** community partners.
**Program Area – Agricultural Business**  
**Program Tax School**  
**Presenter Names Mary Sobba, Joe Koenen**  

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<td>6 Participants</td>
<td>48 hours</td>
<td>Topics for the schools were: New Tax Legislation, rulings, and cases, individual tax issues, affordable care act, IRS rules and regulations, business issues, retirement issues, death of a taxpayer and agricultural topics.</td>
<td>Tax preparers gained continuing education credits which are required for their profession. They will put the information learned in the tax school to use with thousands of clients statewide.</td>
<td>County residents benefit when local tax preparers have the opportunity to gain knowledge they can use to benefit their clients. Taxpayers benefit by abiding within IRS regulations, having tax preparers that understand agricultural situations, and utilizing the latest tax law changes.</td>
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<td>3 participants</td>
<td>7.5 hours</td>
<td>Topics included:</td>
<td>Producers learned</td>
<td>Producer concerns were heard from around the state,</td>
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<td>A total of 153 people</td>
<td>(2.5 hours x 3 participants)</td>
<td>• Regional weather</td>
<td>current information to</td>
<td>compiled by a team of MU Extension and the Missouri</td>
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<td>attended the Kirksville and</td>
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<td>impacts</td>
<td>help them make better</td>
<td>Department of Agriculture. These</td>
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<td>Mexico sites which were</td>
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<td>• 2015 Prevented</td>
<td>management decisions</td>
<td>concerns were then</td>
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<td>two of seven around the state.</td>
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<td>planting acres</td>
<td>during tough economic</td>
<td>shared further with the United States</td>
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<td></td>
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<td>• Lower land values</td>
<td>times and influence</td>
<td>Department of Agriculture. By</td>
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<td>• Dropping farm</td>
<td>policy change.</td>
<td>networking and</td>
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<td>commodity prices</td>
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<td>collaborating in this</td>
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<td></td>
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<td>• Local area broad</td>
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<td>manner, more policy</td>
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<td>issue impacts</td>
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<td>change will be influenced for livestock and</td>
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<td>crop producers.</td>
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**Agriculture**  
**Zac Erwin, Livestock Specialist**  
**Program: Missouri Livestock Symposium**

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| 3425 Hours                     |                                                     | 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. 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. Comments:  
• “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.” | Based on post-session (retrospective) evaluations:  
• 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. | 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. The producer benefits from this program by being better able to manage their livestock and their financial resources. Financially successful producers provide a basis for successful communities. Missourians benefit by keeping farm and ranch families in rural communities and improved natural resource stewardship. |

*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 “drew diverse crowds.” Another on stated, “good attendance with people that have a need for our product.”*
## Agriculture

**Anita Snell, Livestock Specialist**  
**Program: Missouri Livestock Symposium**

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<td>20</td>
<td>130</td>
<td>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. 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.</td>
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**Agriculture**
**Anita Snell, Livestock Specialist**
**Walk-Ins and Phone Calls**

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<td>3 producers called/ came into office.</td>
<td>6 collective hours were spent answering producers’ questions.</td>
<td>Producers learned appropriate rations for cattle for their operations, hay waste, different hog niche markets, and potential causes for equine lameness.</td>
<td>Producers utilized balanced rations for livestock and took appropriate measures for other issues discussed.</td>
<td>Because Anita has started in July 2016, she can better learn her counties needs to better assist them and determine necessary programs in the upcoming year. Producers that have benefited now know to where to bring questions regarding livestock.</td>
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</table>
Agriculture
Anita Snell, Livestock Specialist
4-H & FFA Livestock Judging Clinic

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<td>37 4-H and FFA Youth from 5 counties including Macon.</td>
<td>This was a six hour clinic. 37 youth x 6 hours = 222 hours of participation.</td>
<td>The 4-H and FFA Livestock Judging Clinic provided an opportunity for local 4-H and FFA members to learn how to evaluate live beef cattle, dairy cattle, sheep, goats, swine and horses as well as how to construct and present a set of oral reasons.</td>
<td>Youth set through a classroom session where they were given instructions on how to write a set of oral reasons for judging. The youth were then divided into six groups and given the opportunity to evaluate live animals under the instruction of area industry experts. After each group had visited each species, they were asked to write and give a set of reasons on the species of their choice.</td>
<td>Participating on livestock judging teams offer many benefits to 4-H members. Team members are exposed to team work, effective communication skills and analytical thinking. Team members also build self-confidence as they become comfortable with both components of judging. Development of these skills benefits every area of the livestock judger’s life. Livestock judging provides a rare opportunity to develop strong decision making skills, and the skill a young person learns while judging livestock will transfer well into a number of professions when they are older. 100 percent of clinic participants reported they were more comfortable judging livestock as a result of this clinic.</td>
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<td>13 Adult volunteers</td>
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### Master Gardeners

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<td>11 Master Gardeners</td>
<td>459 total hours: 102 education hours and 357 service hours which has a value $8,410.92 using the 2015 value of $23.56 per hour from the Independent Sector. 108 hours</td>
<td>Master Gardeners continually learn about plant propagation, plant selection, production methods, plant diseases and disorders, insects, weeds and the best control options available. They also learn landscaping methods and teamwork. Participants took a 12 week training class held at the Macon County Extension Center. One, three hour class was held each week. Participants learned about a different horticulture topic during each class which included: the history of the Master Gardener program and University Extension; plant growth and development, herbaceous ornamentals, woody ornamentals, vegetables, fruit, plant diseases and disorders, insects, plant propagation, landscaping and winterizing the landscape.</td>
<td>The Master Gardeners maintain the healing garden at Samaritan Hospital in Macon where they weed, water, mulch and care for the plants throughout the year. Master Gardeners created garden note cards and gift cards to sell as a fundraiser. They also helped plan the Master Gardener training class held in the fall. They worked on beautification projects at the Macon post office, historical society, Macon Health Care Center and local churches, among many other horticulture related activities.</td>
<td>When you support MU Extension’s Master Gardener program public awareness of unbiased, research based gardening information is promoted and increased. The Macon County Master Gardeners assist in the community through beautification projects, and by helping to disseminate research based information to the gardening public.</td>
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Master Gardener Class Held in Macon
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<td>8 Macon county residents attended a Seed Starting workshop held in Kirksville.</td>
<td>24 hours</td>
<td>Participants learned what supplies are needed to start plants from seeds, when seeds can be started and care for seedlings and transplants.</td>
<td>Participants are better able to start their own seeds indoors because they know the supplies needed and how to care for young seedlings and transplants.</td>
<td>By supporting MU Extension’s Home Horticulture and the Environment program, citizens receive high quality horticultural information that is unbiased and research-based.</td>
</tr>
<tr>
<td>Macon County residents attended the Pollinators and Beneficial’s Workshop held in Kirksville.</td>
<td>4 hours</td>
<td>Participants learned how to establish pollinator plants on their property to attract monarch butterflies and other pollinators.</td>
<td>Participants indicated that they would plant milkweed plants and other pollinator plants in the spring.</td>
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<tr>
<td>78 Macon county residents received the Garden Talk newsletter.</td>
<td></td>
<td>Readers learn gardening tips and information about timely horticulture topics.</td>
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### Horticulture

**Jennifer Schutter, horticulture specialist**  
**Home Horticulture and the Environment**

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<td>1 Macon county resident attended the Holidays Unwrapped program held in Kirksville November 17.</td>
<td>3 hours</td>
<td>Participants learned how to create a Thanksgiving table centerpiece using fresh flowers. They learned how to shop on a budget, and how to make healthy holiday dishes.</td>
<td>Participants created their own flower arrangement to take home. They sampled easy to make holiday foods and indicated they were likely to make these at home</td>
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**Horticulture**  
**Jennifer Schutter horticulture specialist**  
**Spring Workshop**

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<td>12 Macon county residents attended a spring garden workshop in March presented by Illinois Master Gardener Mary Wilson.</td>
<td>36 hours</td>
<td>Participants learned when and how to prune and different pruning techniques for trees and shrubs. They also learned about seed starting and propagation.</td>
<td>Participants took what was learned and applied it to the beautification projects they work on throughout the year in the city of Macon.</td>
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Horticulture Jennifer Schutter horticulture specialist  
Spring Workshop
### Horticulture
**Presenters:** Jennifer Schutter, Darla Campbell
**Missouri Grown**

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</tr>
</thead>
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<td><strong>6 commercial producers/ market Gardeners</strong></td>
<td>Jennifer Schutter and Darla Campbell made <strong>8</strong> hours of farm visits in Macon County in 2016.</td>
<td>Growers learned the best production and marketing methods for their operation.</td>
<td>Macon 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 market their products and diagnose plant pests and apply the best methods of control.</td>
<td>Participants learned the advanced beekeeping techniques from experienced beekeepers. Participants planned to build hives and raise honey bees for honey production and pollination of crops. The afternoon session was conducted 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.</td>
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<td><strong>1 Macon County resident helped coordinate and attended the advanced beekeeping workshop held in Macon on June 1.</strong></td>
<td><strong>8</strong> hours</td>
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<tr>
<td>Number of Macon County Learners</td>
<td>Total Hours of Collective Workshop Participation 2016</td>
<td>What Did They Learn?</td>
<td>What Action Did They Take?</td>
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<td>University of Missouri Extension’s Family Nutrition Program (FNP) reached 316 participants directly and 441 indirectly with nutrition education in Macon 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.</td>
<td>158 collective workshop hours</td>
<td>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.</td>
<td>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.</td>
<td>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. 456 of these participants reside in Macon 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.</td>
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Success Stories:

Recently, I taught at Macon Elementary. I taught the students about the importance of the Protein food group. The students got to play a fun relay game to decide if the protein food card they had come from an animal or a plant. The students also got to taste refried beans. Many of the students we surprised that after tasting the beans that it was good and would like to have them more often! Tennille Manson.

While setting up for the food tasting and passing out plates, I asked the children if they liked hummus. Some of them said they had not tried it but it looked “gross”. After passing out the tasting to each child and they all tried it, I asked what they thought about the hummus again. The children who said they had not tried it thought it was good and some even asked for seconds! Shannon Kiley.

While teaching second grade at Atlanta Elementary School, we discussed how choosing healthy foods make us healthier people. I was teaching the lesson and one of the students said that they have been making healthier choices recently because of the lessons. The student said they were feeling healthier and that they were excited about trying new fruits and vegetables. Shannon Kiley.

I was teaching an adult lesson and one participant said she did not like dairy very much. As part of our fruit and veggie lesson, I brought a spinach dip made with yogurt. After tasting the dip, she said that she enjoyed it! Shannon Kiley.
## Nutrition and Health Education

Jim Meyer, nutrition and health education specialist

### Food Preservation

<table>
<thead>
<tr>
<th>Number of Macon County Learners</th>
<th>Total Hours of Collective Workshop Participation 2016</th>
<th>What Did They Learn?</th>
<th>How Participants Benefit</th>
<th>How Does This Work Make Macon County and Missouri Better?</th>
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<td>Six residents had 8 of their dial pressure gauges tested for accuracy.</td>
<td>A four hour opportunity was offered at the MU Extension office in Macon for clients to have their gauges tested for free.</td>
<td>Participants had their dial pressure gauges checked for accuracy and replaced as needed. MU extension guide sheets on food preservation were also distributed.</td>
<td>Testing of pressure gauges is recommended each year. Participants benefited by having a local venue to test their gauges. Also, having an accurate pressure gauge is the only way to safely preserve low acid foods.</td>
<td>MU Extension delivers food preservation lessons based on safe food handling research. The need is to protect food from contamination by pathogenic microorganisms, parasites, and naturally occurring toxins. This program helps prevent a foodborne illness outbreak which could result in unneeded healthcare costs and possible deaths.</td>
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Kent Shannon  
Natural resource engineering specialist  
Program: Drone Education Reaches a Youth Audience

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<td>In total 35 4-Hers and FFA students were reached</td>
<td>140 hours</td>
<td>Youth from Macon County were educated through the Drone Discovery curriculum developed by Cornell University Cooperative Extension. Through a hands-on engineering design challenge youth explored the science behind drones and how they are being used to solve real world problems. One specific real world problem explored was the potential uses of drone technology in agriculture. These uses included crop scouting for nitrogen deficiencies or disease detection through aerial photography. Current status of drone technology available was also covered from quad copters, helicopters, and fixed wing aircraft.</td>
<td>Participants gained an overall understanding of how drone technologies could be utilized today and in the future. With this knowledge, youth will be able explore STEM related careers in the future. In the area of agriculture this means making better decisions in adopting and utilizing drone technology in the future.</td>
<td>The Association for Unmanned Vehicle Systems International (AUVSI), a group representing drone researchers and manufacturers, estimates in the first three years of the integration of drones into the airspace, the economic impact will surpass $13.6 billion as new companies and whole new industries form to market the technology. Of that economic boost, the AUVSI predicts much of it will be in agriculture. Specifically for Macon county youth, this type of program stimulates interest in future careers which ultimately may bring future jobs and businesses to the county.</td>
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MU Extension FY2016
continuing education paragraph summaries

Office of Continuing Medical Education and Physician Lifelong Learning (CME/PLL)  4 Macon Co Residents
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. http://medicine.missouri.edu/cme/about

Fire and Rescue Training Institute (MU FRTI)  70 Macon County Residents
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. 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)  9 Macon County Residents
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. http://leti.missouri.edu

MU Conference Office 56 Macon County Residents
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. http://muconf.missouri.edu

MU Nursing Outreach  24 Macon County Residents
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. 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
Osher Lifelong Learning Institute (OLLI) 0 Macon County Residents

The Osher Lifelong Learning Institute (Osher@Mizzou) appeals to the curious and intellectual world of adults 50 and better. Classes are taught by retired faculty, authors, artists and world travelers. Courses cover subjects such as religion and politics, poetry and folklore, arguments before the Supreme Court, writing your memoirs, and the 2017 solar eclipse. In addition to the broad array of classes, Osher hosts social activities and provides service opportunities for members. As the retiree population is projected to double in the next 15 years, Osher is poised to stimulate and engage the minds of seniors. http://osh.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/cont-education.htm

Missouri Training Institute (MTI) 39 Macon County Residents

The Missouri Training Institute provides continuing education, custom-designed training programs and consulting services for business and industry, public and nonprofit 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. http://mti.missouri.edu

Labor Education 0 Macon County Residents

The MU Extension Labor Education Program works with members and leaders of a variety of workplace-based organizations across Missouri to help them develop skills to contribute to their organizations, act effectively in the workplace, and be informed and active participants in their communities. In FY 2016, the Labor Education Program offered 38 courses and conferences to meet the needs of 1,007 participants. The majority of these participants are elected and appointed leaders of organizations representing the economic interests of more than 20,000 working people in Missouri and surrounding states. http://labored/missouri.edu
Visit these Web Sites to Learn More About University of Missouri Extension

University of Missouri /Lincoln University Extension
http://extension.missouri.edu

Publications
http://muextension.missouri.edu/publications

Missouri Families
http://missourifamilies.org

Community Connection
www.communityconnection.org

The Missouri Career Information Hotline
http://missouribusiness.net

Missouri Watershed Information Network
http://www.mowin.org

Missouri Alternatives Center
http://agebb.missouri.edu/mac

Distance Education
http://cdis.missouri.edu

What is University of Missouri Extension?

University of Missouri Extension is the statewide educational outreach of the University of Missouri System, which has campuses in Columbia, Kansas City, Rolla, and St. Louis, and Lincoln University in Jefferson City. Through conferences, short courses, workshops, town meetings, and the mass media, University of Missouri Extension delivers the knowledge and resource base of Missouri’s land grant universities to citizens. Research-based information enhances Missouri’s economic viability, creates strong individuals, families and communities, and creates and sustains healthy environments.

Extension specialists work in collaboration with personnel from state agencies and local organizations to draw together whatever resources may be needed to help citizens accomplish their goals. Macon County Extension is proud to extend these resources to the citizens of our county through the many programs described in the 2016 Annual Report.

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.