Macon County University of Missouri Extension Council Annual Report 2012

Return on Investment

University of Missouri Extension
# Table of Contents

Message from Council Chair.................................................................3  
Council Leadership—Roles and Duties of the Extension Council ..................4  
Letter from Dr. Ouart, Vice Provost and Director .....................................5  
Macon County Faculty and Staff..............................................................6  
University of Missouri Extension Council Operating Budget .....................7  
Impact on Macon County Missouri..........................................................8  
4-H Youth Development Program ................................................................9-14  
Human Environmental Sciences Programs..................................................15-20  
Business Development Program ...............................................................21-22  
Agriculture Programs..............................................................................23-26  
Horticulture Program...............................................................................27  
Macon County Farm & City Night.............................................................28  
University of Missouri Extension Resources .............................................29
A Message from the Macon County University of Missouri Extension Council Chair

Dear Citizens of Macon County:

State wide each year University of Missouri Extension provides training and assistance to thousands of our citizens through major program umbrellas such as Agriculture and Natural Resources, Human Environmental Sciences, Business Development, Community Development, and 4-H Youth Development.

Descriptions of the many ways Extension touches the lives of people in Macon County follow in this 2012 report. We appreciate the on-going support of the Macon County Commission which makes these programming efforts possible. The Macon County Extension responded to the drought crisis by holding a public meeting with more than 50 producers interacting with a panel of experts for information and resources.

We salute the many volunteers, community leaders, Extension council members and Extension staff who have given their time and talents to make this a successful year. It is our goal to make Macon County a better place to live and work. We think the 2012 Annual Report reflects the efforts to meet this goal.

On behalf of the council and staff, it is an honor to extend the educational resources of the nationwide Land Grant University System to the citizens of our county. We look forward to another successful year.

Stan Grant, Extension Council Chair

Jane Hunter, County Program Director

The Mission of University of Missouri Extension

The mission of University of Missouri Extension is to: improve Missourians’ lives by addressing their highest priorities through the application of research-based knowledge and resources. As an integral part of the land-grant mission, University of Missouri Extension is a joint venture of University of Missouri campuses; Lincoln University Cooperative Extension; the people of Missouri through county extension councils; Cooperative State Research, Education and Extension Service of the U.S. Department of Agriculture; and other stakeholders and partners.

More than 50 producers interacting with a panel of experts for information and resources on the 2012 drought.
The mission of University of Missouri Extension is to improve Missourian’s lives by addressing their highest priorities through the application of research-based knowledge and resources.

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The county extension council plays a vital role in meeting these educational needs. County extension councils are statutorily created to work with the University of Missouri in carrying out the local extension program (Sections 262:550 to 262:610, Revised Statues of Missouri).

Effective county extension councils are comprised of members who are committed to the extension mission. Their responsibilities can be categorized into three areas:

- **Educational program development and implementation**
  
  The council plans and carries out extension programs in their county by identifying concerns in their community; making recommendations to the University by working with local faculty; and ensuring access to local residents, groups and organizations.

- **Governance**
  
  The council administers the local extension budget and operations, including council-employed personnel and fiscal management. The council is responsible for office operations, annual council membership elections, council operations and meetings, legal requirements, regional council relationship, marketing, and decision making.

- **Membership**
  
  Membership begins with recruiting candidates who represent the broad educational needs and backgrounds of the people in the county.

The 2012 Extension Council is sworn in by Shirley Sims, Macon County Clerk, at the Annual Meeting in March.

The Bevier Buck-A-Roos 4-H club provided a wonderful meal for our Annual Meeting.
Dear County Commissioners and Associated Friends of MU Extension:

At MU Extension, we know that citizens want their taxpayer-supported institutions to be responsive to their needs. Our distinct land-grant mission is to provide relevant, reliable and responsive education that improves Missourians’ lives, communities and the economy. We fulfill that mission by providing access to many research-based resources of the University of Missouri, in partnership with local and statewide organizations and groups.

Funded through the support of federal, state and county government; grants and contracts; fees for services; and private gifts, MU Extension leverages every dollar received to create expanded educational opportunities. Every dollar appropriated from county government is leveraged with $6 to create a significant return on investment.

MU Extension creates value for citizens – including those who do not participate directly in its programs. For example:

The MU Extension Fire and Rescue Training Institute teaches volunteer and career firefighters how to handle or mitigate fires and disasters, resulting in safer firefighters, citizens and communities. In FY2012, MU FRTI trained 17,096 fire and emergency service personnel through 217,000 instructional hours of training. Enrollees were from all of Missouri’s 114 counties.

This summer’s severe drought put MU Extension faculty in an active leadership role in helping Missourians deal with the crisis. MU Extension developed educational materials and programs and provided technical assistance for homeowners, businesses and the agricultural community. Social media, including Facebook, YouTube and websites, were used to inform citizens on such topics as animal nutrition, including nitrate poisoning; heat-related disabilities; government programs; wildfires; and more. Extension faculty also worked with Soil and Water Conservation Districts to implement drought cost-share practices, which allowed more than 11,000 landowners to apply for state assistance to access adequate water supplies for livestock and crop production.

These are just two examples of MU Extension’s public value impact. I’m sure you will find many other examples in your local community.

I want to thank you for your support of MU Extension as a critical team player in your locale. Your ideas for improving our partnership are always welcome.

Sincerely,

Michael D. Ouart
Vice Provost and Director
Macon County MU Extension Faculty and Staff

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Additional Faculty/Staff Serving Macon County
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## 2012 Macon County University of Missouri Extension Council Operating Budget

### Revenue
- County Appropriation: 37,500.00
- Miscellaneous: 252.58
- Funds Reallocation—Moving Funds: 1,200.00
- Total Revenue: 38,952.58

### Expenses
- Salary & Wages: 16,550.38
- Payroll Expenses: 5,907.57
- Travel: 1,000.00
- Telephone Service: 1,760.44
- Rent /Water: 9,240.00
- Supplies/Services: 1,166.37
- Utilities: 1,612.45
- Insurance: 512.74
- Total Expenses: 37,749.95
Impact on Macon County, Missouri

UM Students from Your County in 2011
- 80 students
  - 70 - MU
  - 5 - UMKC
  - 4 - Missouri S&T
  - 1 - UMSL
  - 62 - Undergraduates
  - 18 - Graduates
  - 69 - Full-time students
  - 11 - Part-time students

Macon County
Estimated Population in 2010: 15,566
Estimated Population Change 2000-2010: -196 (-1.2%)
Estimated Median Household Income in 2010: $27,130

Health Professional Shortage Areas
Your entire county is within a Primary Care, a Dental Care, and a Mental Care HPSA.

Medically Underserved Areas
Part of your county is within a MUCA.

UM Alumni Residing in Your County in 2011
- 447 alumni
  - 372 - MU
  - 37 - UMKC
  - 20 - Missouri S&T
  - 18 - UMSL
  - 202 Selected School Alumni
  - 5 - Medicine
  - 21 - Nursing
  - 9 - Health Professions
  - 4 - Dentistry
  - 6 - Pharmacy
  - 1 - Optometry
  - 8 - Veterinary Medicine
  - 92 - Agriculture
  - 41 - Engineering
  - 15 - Law

UM Employees and Retirees Residing in Your County in 2011
- 45 people employed by UM
  - 17 - MU
  - 28 - UM Health Care
- 11 UM Retirees and Beneficiaries

Tax Revenue and Income Generated by UM Employees and Retirees Residing in Your County in 2011
- $54,487 in Missouri State Taxes
- $249,862 in Federal Taxes
- $1,635,729 in Salary and Retirement Income returning to the county

UM Services Received in Your County in 2011
- 2,825 patients seen at UM Health Care with $1,416,392 of uncompensated care.
- 14 patients seen at the UMKC School of Dentistry with an average of $37 per patient in uncompensated care.
- 7,331 educational contacts with MU Extension through MU Extension events held in your county.

UM Alumni as K-12 Teachers and Administrators in Your County in 2011
- 30 teachers
- 14% of all county teachers
- 3 principals and administrators
- 19% of all county principals and administrators

Office of Government Relations
839 University Hall
Columbia, MO 65211
573-882-2728

www.umsystem.missouri.edu/department/in/gr/
4-H youth development in Macon County is a community of 195 youth building life skills, engaging in science and connecting to communities.

One of every five Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2012.

4-H Connects Kids to College and a Higher Quality of Life
Missouri 4-H members are twice as 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). In 2011, MU Extension 4-H connected 8,500 young people ages 8 to 18 to University of Missouri campuses and faculty. Being on a campus is a predictor of youth going on to higher education (Hoover, 2006).

- Twenty 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
  - Be better consumers
  - Improve quality of life through more opportunities for leisure and hobbies
  - Improve health for themselves and their children (Potter, 2003)
  - More likely to vote as adults
  - More likely to contribute to their community (Lerner, 2009; Zaff et al, 2003)
- Youth, who earn their Bachelor’s degree, increase annual earnings by $2.01 million over their lifetime (Porter, 2003). If 70% of the Macon County members participating in 4-H events on the MU Campus go on to earning their Bachelors, 4-H would help our local young people earn $28.14 million more of lifetime earnings.

4-H Clubs
4-H participants = 195

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.
**4-H members supported by 111 adult volunteers**

Volunteers create, support and are part of the 4-H community. Missouri 4-H volunteers responding to a survey report they contribute on average 100 hours per year. Valuing their time at $18.80 per hour, based on average Missouri incomes, the contribution of Macon 4-H volunteers was worth more than $208,680 in 2012! More importantly, these adults serve as mentors for our youth helping them transition into healthy adults.

![Image](image1.jpg)

**4-H School Programs**

4-H participants = 171*

Macon County 4-H school enrichment programs are short-term educational experiences that supplement learning in the classroom. Most are led by teachers or 4-H volunteers. The most popular 4-H school program in Macon County is “Hatching Chicks in the Classroom”. Pre-incubated eggs are delivered to the classroom and hatch about four days later. 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.

Life Skills Days are another school enrichment program offered in Macon County. During the day youth participate in different fun and hands on activities that teach how important it is to work together, communicate, be a good leader, be someone others can trust and how those life skills influence their lifestyle as an adult. Bevier Elementary students from Kindergarten through sixth grade participated in a Life Skills Day at the Bevier Park this past spring.

![Image](image2.jpg)

**Show-Me Quality Assurance**

Some 4-H members will own or manage an animal for a 4-H project. The Show-Me Quality Assurance program is geared toward 4-H youth enrolled in food animal projects such as beef, rabbits, poultry, sheep, swine, dairy and goats. Food animal project members must be certified in Show-Me Quality Assurance to be considered a member in good standing for that project. Twenty-nine youth attended the 2012 program that covered information on daily care and management, animal handling, animal identification, reading feed labels, biosecurity, proper injection locations, carcass quality and medication withdrawal times.

![Image](image3.jpg)
Macon County Youth Leaders

Youth Leaders are a small group of 4-H members ages thirteen and above. They work together on community service projects to help improve our communities, help our citizens and make life more enjoyable. Throughout 2012 this small group of five teen 4-H members raised funds to sponsor a Veteran on an Honor Flight in April 2013. Youth Leaders also learn about youth development so they can better assist adult volunteers during project specific meetings.

Achievement Day

Fifty-two 4-H members participated in the annual Achievement Day. Members competed in demonstration contests, public speaking contests, personal development interviews, 4-H royalty interviews, a table setting contest, collection displays, team skill-a-thon and judging contests for ages 5-18. Achievement day assists 4-H youth in improving problem solving, communication and organizational skills as youth 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. 4-H also helps youth 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.

4-H Summer Camp

Fifteen members from Macon County attended 4-H Summer Camp at Cuivre River State Park near Troy. A pre camp evaluation and post camp evaluation developed from the Life Skills Evaluation System was given to campers that were entering grade six and up the first day and the last day of camp. The evaluation tool showed 4-H camp is helping youth develop skills related to decision making, wise use of resources, useful or marketable skills and self-responsibility. When campers were asked about the most important thing they have 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.
Regional, State and National 4-H Events

Macon County was well represented at regional, state and national events. Some events the Macon County 4-H members attended include:

- State 4-H Teen Conference - 4 members attended
- State 4-H Congress - 3 members attended
- Kansas City Global Conference - 1 member attended
- 4-H Summer Camp - 15 members attended
- Counselor’s Camp - 1 member attended
- Regional Energizer - 9 members attended
- Macon County Town and Country Fair - 128 members attended
- State Public Speaking - 1 member attended
- State Shooting Sports Contest - 17 members attended
- State Livestock Judging Contest - 6 members attended
- State Demonstrations - 5 members attended
- State Fashion Revue - 6 members attended
- Missouri State Fair - 60 members attended
- MU Annual Robotics Challenge - 2 members attended
- National Poultry and Egg Conference - 1 member attended

*Duplicates not removed

References:


PARENT EDUCATION – Jane Hunter

When you support Building Strong Families and Focus on Kids Parent Education Programs in Macon County you will see stronger families who are more self-reliant and knowledgeable of strategies and skills in building relationships with their children and one another. Parents who participate in the Focus on Kids Parent Education Class for divorcing parents will be less likely to return to court to modify their divorce decree. All of these parent education programs reduce the costs imposed on state agencies and county courts.

Building Strong Families Parent Education Class was held in Macon County where families referred from the Family Support Division, public schools and Head Start attended. Mothers and fathers attended this 4-week course to learn about strengths within their families, strategies for guidance and discipline of their children, practices that build self-esteem in children, and community resources that support families. Parents attending the class enrich their skills and understanding of child development as it relates to rearing their children. Some parents attend the class because their children have been removed from the home and they are learning better parenting skills to enable them to have their children returned to them. Some of the parents attend the class as members of drug court. In all cases, University of Missouri Extension is the only available parent education course that is offered on a regular basis in the Macon County area. Parents attending the classes come from Macon, Shelby and Adair counties.

TAKING CARE OF YOU – BODY, MIND AND SPIRIT – Jane Hunter

When you support University of Missouri Extension’s multi-session program entitled “Taking Care of You-Body, Mind and Spirit,” participants learn strategies enabling them to better manage life challenges and improve their overall health. These behavior changes result in improved family relationships, improved work relationships, and could impact the health of the individual in a positive way.

Everyone endures stress in one form or another in their everyday lives. Stress has a direct and indirect effect on our health- including our physical, mental and spiritual health. Research shows stress increases our likelihood of making poor food choices, to be less physically active, to smoke and be less likely to quit, and more likely to drink a greater number of alcoholic beverages. It is not surprising that the top three causes of death in the United States are associated with chronic stress.

The University of Missouri Extension’s multi-session program Taking Care of You-Body, Mind and Spirit helps Missourians better deal with stress through practical strategies participants can use in their everyday lives to better cope with the stress and challenges they endure leading to improved health behaviors. To learn more about the program visit http://extension.Missouri.edu/taking care.
Ten Shelby County residents participated in a program in December entitled “Beat the Holiday Stress” based on the Taking Care of You curriculum. The program provided strategies to cope with stress that is associated with the holiday season. Participants practiced staying in the moment to be able to accomplish tasks, mindfulness to better manage eating, spending and health practices, responding vs reacting to stressors to stay healthier, and the art of gratitude to maintain positive perspectives during the holidays. Other strategies included examining expectations we put on ourselves and others, remembering to take a deep breath, and learning to say “No.” Each participant received a packet of resource materials to support the strategies learned. Enjoyment from sharing with one another and learning these strategies emphasized the best strategies of all – joy and laughter!

EARLY CHILDHOOD EDUCATION PROGRAMMING – Jane Hunter

*When you support training programs for child care providers children will receive better educational experiences in their care, children will receive care that is more safe and healthy because the providers have increased education and training, and the workforce is impacted because parents have peace of mind knowing their children are in quality care. This leads to decreased employee turnover and higher productivity.*

Programs provided in Macon County to Early Childhood child-care givers includes the Child Development Associate Program. This program is held throughout the entire school year. At the end of the course and meeting all requirements, students receive a credential indicating their competence in caring for young children. For the first time, Macon County held an Early Childhood Conference in March. Six hours of child care training approved by the State Department of child care licensure were provided by speakers from Macon and Adair counties.

More than 30 child care providers attended the conference.

MACON COUNTY BACK-TO-SCHOOL HEALTH AND SAFETY FAIR – Jane Hunter

*When children are given the resources and supplies they need to begin the new school year, there is increased confidence in the children and their families. Children will begin the school year on an even footing with their peers.*

Macon County Extension has served this program since its inception. The Human Development Specialist and Youth Development Specialist have played a large role in helping to plan and conduct the fair that is held in August every year. The Youth Development Specialist has included many of the Junior Leaders in 4-H to provide activities to the children the day of the fair. Attendance usually surpasses 650 people. More than 400 bags of school supplies are provided to the children. Positive feedback is received from the parents and family members. This provision of basic school supplies is very helpful to families of all socio-economic levels. The families receive health and safety information from more than 78 vendors from Macon County and agency representatives from the surrounding area.

Local vendors and service agencies share information with participants.

4-H Junior Leaders assist young fair-goers with fun activities during the Back to School Fair.
Making Money Count for Comfort Inn Employees – Wendy Brumbaugh

*When you support MU Extension’s Making Money Count program, participants learn to increase their control over personal finances which leads to reduced financial stress which benefits the community as a whole by lowering costs for public assistance programs.*

Managers of the Macon Comfort Inn and Super 8 Hotels provided an employee in-service program provided by University of Missouri Extension. The goal of the program was to assist employees in money management and decision making regarding their finances. Ten employees attended the program.

Making Money Count is a curriculum that covers the basics of money management including identifying money habits, spending pitfalls, examining personal credit history reports, spending plans, and learning about predatory lenders. One’s personal goals, values and attitudes about money can sometimes be a detriment to managing money effectively.

Individual comments included: “I learned a lot tonight.” “Thank you so much for the information about payday loans. I didn’t realize the hidden costs and the extreme interest rates.” “I learned a lot about my personal spending habits and now have a tool to make better spending choices.”

FOOD PRESERVATION PROGRAM – Jim Meyer

The food preservation program answers consumer questions and teaches safe food preservation techniques. 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. Current data indicates a large portion of the population is improperly and unsafely handling food in the home leading to potentially lethal illnesses. There are seventy-six million cases of food borne illnesses per year with 315,000 cases resulting in hospitalizations and 3,000 deaths. Macon County held a canner gauge testing day at the Extension Center. 19 pressure gauges were tested for clients that day.

Clients for nutrition programs include limited resource families, school children, minority families, youth, adults, and day care providers.

Jim Meyer, Extension Specialist, testing a pressure canner gauge to insure safety for the season’s harvest.
University of Missouri Extension’s Family Nutrition Program (FNP) reached 325 participants with indirect nutrition education in Macon County during 2011/12 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.

The Family Nutrition Program brought $10,420.125.00 in Federal funds to the state of Missouri. These funds were used to provide nutrition education to 315,326 food stamp recipients and food stamp eligible citizens of Missouri. 325 of these participants reside in Macon County. It also funds ten full-time and one part time job in the Northeast Region with quality benefits plus expenses for making the programming available to qualified schools and agencies in the 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.

Evaluation data collected across the entire state reflects the positive impacts that occur in every county with FNP. For youths who participated in FNP, results summarized for the state revealed the following positive impacts:

- Three thousand six hundred thirty-five (3,635) teachers gave us feedback.
- 54 percent have participated in FNP for three or more years.
- 99 percent (3,582 teachers) reported one or more changes in students after FNP.

<table>
<thead>
<tr>
<th>Student changes reported by teachers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student changes</td>
</tr>
<tr>
<td>More aware of nutrition</td>
</tr>
<tr>
<td>Make healthier meal and/or snack choices</td>
</tr>
<tr>
<td>Eat breakfast more often</td>
</tr>
<tr>
<td>Behavioral change</td>
</tr>
<tr>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>More aware of nutrition</td>
</tr>
<tr>
<td>Make healthier meal and/or snack choices</td>
</tr>
<tr>
<td>Eat breakfast more often</td>
</tr>
<tr>
<td>More willing to try new foods</td>
</tr>
<tr>
<td>Improved hand washing</td>
</tr>
<tr>
<td>Improved food safety other than hand washing</td>
</tr>
<tr>
<td>Increased physical activity</td>
</tr>
<tr>
<td>Make/offer healthier food choices for students</td>
</tr>
</tbody>
</table>

*Evaluation data was collected on students who participated in a variety of curricula from Pre-Kindergarten through Grade 12.
Adults who participated in FNP also made significant improvements in each area addressed.

**Dietary Quality and Physical Activity**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Percent of respondents reporting improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Think about healthy food choices when deciding what to feed your family</td>
<td>51%</td>
</tr>
<tr>
<td>Use the “Nutrition Facts” label to make food choices</td>
<td>62%</td>
</tr>
<tr>
<td>Consume something within 2 hours of waking</td>
<td>53%</td>
</tr>
<tr>
<td>Consume the equivalent of 3 cups of milk, yogurt, and cheese each day</td>
<td>50%</td>
</tr>
<tr>
<td>Eat more than one kind of vegetable each day</td>
<td>56%</td>
</tr>
<tr>
<td>Eat more than one kind of fruit each day</td>
<td>59%</td>
</tr>
<tr>
<td>Exercise for a total of 30 minutes each day</td>
<td>51%</td>
</tr>
</tbody>
</table>

**Food Safety**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Percent of respondents reporting improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Let meat and dairy foods sit out for more than 2 hours</td>
<td>45%</td>
</tr>
<tr>
<td>Thaw frozen foods at room temperature</td>
<td>64%</td>
</tr>
</tbody>
</table>

**Food Resource Management**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Percent of respondents reporting improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan meals ahead of time</td>
<td>61%</td>
</tr>
<tr>
<td>Compare prices before bought food</td>
<td>42%</td>
</tr>
<tr>
<td>Shop with a grocery list</td>
<td>46%</td>
</tr>
</tbody>
</table>
BUSINESS DEVELOPMENT PROGRAM
Chris Shoemaker, Business Development Specialist

Overall, the University of Missouri’s Business Development Programs (BDP) served 22,350 people and their businesses state-wide. The total impact for all businesses assisted by the BDP was:

New jobs: 6,531
Sales increases: $237,046,646
Government contracts: $198.2M
New businesses: 303
Jobs retained: 2,784
Loans and investments in business: $245,575,470
Acquired assets: $32,205,965
Investment in commercialization: $19,417,970 in SBIR/STTR or research proposals submitted with $7,494,246 awards received
Clients/companies receiving business counseling: 8,452
Business training attendees and conference participants: 22,981

The business development faculty, have contributed to these business successes are from the programs identified above. The faculty has regional and statewide assignments and work with businesses in all counties across the state.

SIGNIFICANT ACHIEVEMENTS IN MACON COUNTY
Chris Shoemaker:
New jobs: 25
Sales increases: $997,532.60
Government contracts: $769,267
New businesses: 6
Jobs retained: 10
Loans and investments in business: $1,148,482.14
Acquired assets: $77,000
Clients/companies receiving business counseling: 50
THE BUSINESS DEVELOPMENT PROGRAM DELIVERY NETWORK INCLUDES:

Business Development Specialists headquartered at University of Missouri Extension centers; centers located on the University of Missouri campuses at Columbia, Kansas City, St. Louis and Rolla; and centers at most of the state universities across Missouri. The named programs delivered through this network include:

Missouri Small Business & Technology Development Centers (MO SBTDC) – Funded by the U.S. Small Business Administration, this award is matched on the local level by state university hosts and private sector partners. Services include individualized business counseling and a wide variety of educational opportunities. One of the products offered through those centers is the MoFAST SBIR/STTR assistance. Specialists in this area work with university faculty and other innovators to win awards in support of the commercialization of technology.
FENCE AND BOUNDARY LAW – Joe Koenen

*When you support MU Extension’s Fence Law program, landowners have a better understanding of a law that critically impacts them. It helps them avoid conflicts with their neighbors and costly legal fees. This helps Missouri by lessening court overcrowding and allows citizens to make informed, educated decisions based on facts and not on beliefs.*

Missouri’s Fence and Boundary Law remains one of our more confusing state laws since there are two different ones in the state. A large influx of recreational land owners and those without a direct agriculture connection have made this issue even more of a hot button one here in Missouri. The state fence law can be difficult to interpret and few if any attorneys and judges keep up on rural legal issues. Fence and boundary law education remains a critical area of need and is requested numerous times throughout the year.

One hundred nineteen (119) individuals attended programs discussing Missouri’s fence and boundary laws during 2012. Additional individual questions are responded to from numerous counties in Missouri. Joe Koenen, Agricultural Business Specialist, coordinates the sessions with support and assistance from many other faculty statewide. In 2012 the first program via Adobe Connect was done successfully. This allows locations without ITV access to participate. Evaluations of this program indicate over 90% that attend now know there is more than one fence law in Missouri (an especially critical fact for the 16 local option counties in our state) and around 87% know which law covers the land they own. Comments made by attendees included “lots of useful information” and “Joe was very informative and easy to understand”. Extension is a trusted source of unbiased information and a critical resource. Although this program has been offered for many years, it continues to be one of our most requested and strong interest remains.

(27 via ITV presentation on March 5 (15 at Salem TCRC, 8 at State Fair Community College and 4 at the Brookfield Career Center); 39 via ITV presentations on March 21 (10 at Lafayette County Extension Center, 10 at the Missouri Department of Ag in Jefferson City, 6 at the Poplar Bluff TCRC, 7 at the Edina High School and 6 at the City of Kirksville; 39 via Adobe Connect presentation on March 15 (14 in Nodaway County Extension Office, 9 each at the Gasconade and Boone County Extension Offices, 4 in Cooper County Extension Office and 3 at Andrew County Extension Center; 17 via ITV to Worth County on March 28.

(16 from Worth; 15 from Dent, 12 from Nodaway, 9 from Boone, 9 from Gasconade, 8 from Lafayette, 7 from Knox, 6 from Cole, 6 from Pettis, 4 from Cooper, 3 from Linn, 2 each from Benton, Butler, Clay, Clinton, Johnson, Osage, Putnam and Wayne; 1 each from Adair, Andrew, Audrain, Callaway, Carter, Chariton, Macon, Miller, Ripley and Sullivan).
FARM LEASES CAN CAUSE CONFLICTS – Joe Koenen

_When you support MU Extension’s Farm Lease program, you help in educating participants in lease issues and laws. This helps promote better landlord-tenant communications and lessens conflict and potential costly litigation later on._

Farm lease questions and disagreements continue to be at the top of the list as far as most asked questions of Agricultural Business Specialists in the last five years. High crop prices and a continued higher return for land than other investments have driven this. Finally, more and more landowners today are not rural residents and as such are not familiar with traditional agricultural practices.

60 persons attended the Farm Lease Program in 2012 that was conducted via Interactive 2-way Television or ITV on August 30th in four locations throughout Missouri. Four Agricultural Business Specialists throughout the state were involved with this program. Attendance continues to be very good for this program and people are willing to drive more than 100 miles to receive this information. Evaluations showed that 92% of attendees would recommend the program to others. Additionally, 84% understand that a lease is a legal, binding contract and 78% know where to find lease forms and where to get further assistance. Lease termination continues to cause many conflicts so knowing the law on termination will lessen those conflicts in the long run. Many individual questions are received on farm leases, too.

Topics included current rental rates and trends, specific items to include in a farm lease, terminating a farm lease correctly, lease hunting issues and crop and livestock share lease concerns. Farm leases will remain a critical area of concern with the number of absentee landowners growing and so this information is valuable to those folks as well as to our local producers.

60 via ITV presentation (28 in Tarkio, 9 at Johnson County Extension Center, 9 at Callaway County Extension Office, 8 in Edina, 3 each in Queen City and Moberly):

(15 from Atchison; 8 from Callaway, 6 from Nodaway, 6 from Johnson, 5 from Knox, 4 from Macon, 3 from Holt, 2 each from Chariton, Lewis and Nebraska, 1 each from Cole, Harrison, Lafayette, Platte, Ray, Shelby and Iowa).
**MANAGEMENT INTENSIVE GRAZING SCHOOL – Alix Carpenter**

*When you support the University’s Grazing School you will see the benefits of intensive grazing systems including reduced production costs, increased animal output per acre, land use efficiency, and environmental acceptability.*

A Management Intensive Grazing School was held in Cairo in July. MIG schools are a cooperative effort between University of Missouri Extension and the Natural Resources Conservation District with assistance from local Soil and Water Conservation Districts. Grazing schools are a mandatory pre-requisite for producers seeking DSP –III cost-share funds through their local SWCD. There were 25 participants including two from Macon County.

**LADY LANDOWNER WORKSHOP – Max Glover**

*When you support the Lady Landowner Workshop you are providing education that assists landowners in making land management decisions that not only benefit them and their heirs, but also the public and future generations.*

A Lady Landowner Workshop was offered to residents of Macon and Randolph counties in October. Attendees received conservation program information from USDA agency personnel, estate planning information from Agri-Business Specialist, Joe Koenen, drought information from Livestock Specialist, Gentrie Shafer, Horticulture Specialist, Jennifer Schutter, and Agronomy Specialist, Max Glover. The workshop was sponsored by the Macon Soil and Water Conservation District making the workshop free of charge to the attendees.

**BEEKEEPING WORKSHOP HELD FOR THE FIRST TIME IN MACON COUNTY – Max Glover**

*University Extension continually provides cutting edge programs bringing in experts to teach others. These experts will encourage others to pursue and/or expand their already existing endeavors.*

Funded through a United States Environmental Protection Agency grant, MU Extension hosted a beginning beekeeping workshop in Macon in February. The one-day workshop provided a hands-on educational experience to 25 participants. Jim and Valerie Duever of Jim ‘n’ I Farm and the Boone Regional Beekeepers Association instructed participants on the basics of beekeeping. All attendees worked together to build a bee hive that was given to one lucky attendee at the end of the workshop. A post-workshop survey revealed that at least half of the attendees had no prior beekeeping experience yet 14 out of the 16 who responded to a voluntary survey planned to begin a hive after attending the workshop. Comments from the participants were all very positive.
MU EXTENSION PROVIDES PRIVATE PESTICIDE APPLICATOR TRAINING – Max Glover

*When you support the training provided to those applying chemicals to protect crops you keep the individual and the environment safer and increase the potential for better crop production.*

Private Pesticide Applicator Training is required for the purchase of restricted use pesticides. 54 individuals attended a MU Extension Training in Macon in 2012 to become certified to purchase restricted use pesticides. To become certified, participants attend one, two-hour training session every five years and maintain records of restricted pesticides used. Participants learn how to keep themselves, their neighbors, and the environment safe when using restricted-use pesticides.

SOIL TESTING AND WEED AND INSECT IDENTIFICATION PROVIDED BY EXTENSION – Max Glover

Extension also oversees soil samples. Max provides interpretations and answers questions regarding the results of soil tests sent to the soil testing laboratory on campus at the University of Missouri. Farmers and gardeners who apply fertilizer based on soil test results are less likely to apply more fertilizer than needed, saving money and reducing nutrient runoff into streams. There were 11 soil tests sent in 2012 and 12 weed and insect identifications made by Max Glover. Max also serves on the Macon Soil and Water Conservation District Board which oversees the allocation of cost share funds used for conservation practices in Macon County.
MASTER GARDENER PROGRAM

When you support MU Extension’s Master Gardener program public awareness of unbiased, research based gardening information is promoted and increased.

Master Gardeners are trained to disseminate research based, unbiased information to clientele throughout Missouri. Through the volunteer commitment, Master Gardeners assist their communities through beautification projects, staffing educational booths at fairs and festivals, and assisting with various horticulture projects when needed.

There are 15 active Master Gardeners in Macon County with eight residents who completed the Master Gardener training during 2012. 844 total volunteer hours were contributed. Of that, 670 were service hours which have an estimated value of $14,599.30 using the 2011 value of $21.79 per hour from the Independent Sector. Projects in Macon County include the Healing Gardens at Samaritan Hospital, the Blue Star Marker at the National Guard facility, the Macon Post Office, local church gardens, and the Community Child Development Center. During the planting season the Master Gardeners sit at Westlake on designated Saturdays and answer gardening questions.

Master Gardeners attend continuing education programs whenever possible. This year 21 people, three of those from Macon County, attended a program entitled “Caring for Drought Stricken Plants” in October. Macon/Shelby Master Gardeners hosted a program on plant propagation where more than 30 people from Macon and surrounding counties attended. A “Spring Forward” Gardening Workshop was held in March where 91 people attended. Nine of those participants were from Macon County. The workshop provided participants with information on growing tomatoes, grapes, flowers; raising chickens for food; amending the soil; and preparation and cooking tips for garden grown produce.
A highlight of the year was the second annual Farm and City Night. It was a great success with over 80 in attendance. A meal was provided by the Macon County Extension Council to the public. The 4-H youth conducted working demonstrations and the Extension Specialists serving Macon County were on hand to visit one-on-one with participants to answer questions and share resources.
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/xplor

Missouri Families
http://missourifamilies.org

Community Connection
www.communityconnection.org

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

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 2012 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.