Lewis County 2014 Annual Report

Reliable, Responsive and Relevant to Today’s Needs
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
December 2014

Dear County Commissioners and Friends of MU Extension:

Over the past year, with a theme of *Celebrating the Past and Building for the Future*, MU Extension marked a century of service to Missouri. While the celebrations have come to an end, the focus on building for the future is strong. The university’s commitment to the mission of bringing relevant, reliable and responsive education to improve lives and local economies is alive and well.

To maintain our position as a valued and trusted resource for Missourians, MU Extension continues to strengthen existing programs, build relationships and explore new opportunities to benefit Missourians. For example:

In the area of agriculture, the Show-Me Select Heifer Replacement program continues to improve the breeding performance of heifers as it helps participants realize record prices for their efforts. Producers from 103 of Missouri’s 114 counties have enrolled heifers in the program. In a record-setting sale, 168 bred replacement heifers sold for an average of $3,033 at the Fruitland (Missouri) Livestock Auction.

Strengthening communities through art, innovation and creativity, Extension’s Community Arts Program is piloting an initiative in Lexington to help the community enhance its image with art businesses and opportunities that reflect the talent of regional artists and benefit a nine-county tourism alliance. The Community Arts Program is also at work in the St. Louis area, overseeing the Saint Louis Storytelling Festival, which engages approximately 25,000 people each year.

Knowing the value of dialogue with those it serves, MU Extension has made a concerted effort with the Mizzou Alumni Association to introduce MU Chancellor R. Bowen Loftin to extension programs, participants, key stakeholders and alumni from all corners of the state. These tour events, which will continue into 2015, are designed to foster understanding and support that lead to a stronger local extension effort across the state.

These are just a few examples of MU Extension’s focus on building for the future and continuing to making an impact in local communities.

I thank you for your support of MU Extension and our efforts in your community. I look forward to our continuing partnership and welcome your ideas for improving our partnership.

Sincerely,

Michael D. Ouart
Vice Provost and Director
Every Missouri county has an extension council comprised of elected and appointed citizens who guide the local educational programming.

Council members are partners in the education process, from needs assessment through program implementation and evaluation of outcomes.

Extension Council members:

* Work with regional faculty to determine education programs for the county
* Manage finances of local extension operations
* Provide personnel to carry out extension activities
* Elect and organize the local extension council

From the Lewis County Extension Council

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Dear County Commissioners and Friends of MU Extension,

The University of Missouri Extension council and staff would like to thank you for your support and funding for programs during this past year. In turn, the council and staff remain committed to improve people’s lives by helping them meet the opportunities and challenges of the 21st century with research-based education and information.

County residents decide the direction of Extension’s educational programming. Current emphasis areas in Lewis County focus on community and economic development, agricultural profitability, building family and individual strengths, business, enhancing health and nutrition, environmental quality and stewardship and youth development.

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

Aaron Schmitz
Council Chairman

Jennifer Wood
Council Secretary
HOME HORTICULTURE IMPROVES THE ENVIRONMENT AND THE QUALITY OF LIFE
Lewis County residents sought home horticulture assistance on various garden topics. MU Extension horticulture publications were referred to and were given to clients if needed. A commercial vegetable grower sought assistance with marketing vegetable crops and with Good Agriculture Practices (GAP) certification. Some residents receive the Garden Talk newsletter each month, informing them of timely gardening tips and other important gardening information. The newsletter also informs them of upcoming horticulture events they can attend.

Benefits to Lewis County: By supporting MU Extension’s Home Horticulture program, citizens receive high quality horticultural information that is unbiased and research-based. Correctly having a pest or plant identified allows homeowners to make better choices about pest control or growing methods in their home gardens.

AGRONOMY CONSULTATIONS AND TRAININGS
Over 180 Lewis County participants received consultations from MU Extension agronomists, covering a variety of topics including soil test recommendations, plant and insect identification and pest treatment. Residents learned how to use the safest and most efficient method to control the pest identified, manage fertilizer applications to row crop fields and apply restricted use pesticides using techniques and equipment that minimize human health risks and negative environmental impacts.

Benefits to Lewis County: By utilizing research-proven best practices on their farms, citizens of Lewis County improve their local economy. Current and future generations benefit when these practices are used and result in improved productivity and reduced negative environmental impacts.

LADY LANDOWNER’S WORKSHOP
Participants in the workshop learned about Farm Service Agency programs, farm leasing, cash rental rates and land trends, field cover crops and soil health, money habits and management, wildlife management on your farm, flower garden favorites and spotted wing drosophila. This six hour workshop was presented to 16 Lewis County women landowners by MU Extension, Farm Service Agency and the Missouri Department of Conservation.

Benefits to Lewis County: Participants can make better decisions about renting or leasing land, about how they spend their money, how they can manage wildlife on their farm, how they can manage the spotted wing drosophila in fruit plantings, and what farm programs they can participate in that will improve their land. Doing this helps save money, protects crops and conserves natural resources.

COMMENTS: “Very informative program”. “Very interesting, would come again.”
GREENLEY RESEARCH FIELD DAY
MU Extension Livestock Specialist Zac Erwin presented and submitted material to the field day proceedings at the Greenley Research Field day on alternative annuals and perennials for forage production. There were 300 area producers who attended the event.

Benefits to Lewis County: Public funding supports on-farm research that helps growers and consultants learn how to objectively evaluate products and management practices leading to improved risk management, enhanced agricultural profitability and environmental sustainability. This benefits Missouri as a whole by improving farm businesses and rural community viability, protecting water quality and assuring plentiful grain production for food, feed and fuel demand.

FARM BILL SEMINAR
Lewis County residents learned about farm options under the new USDA Farm Bill program. MU Extension faculty and Farm Service Agency personnel presented information about the timeline for yield updates, base reallocation, enrollment, and sign-up.

Benefits to Lewis County: Ninety-three percent of respondents said they will take action on what they learned; some will attend another farm bill educational session as the next step. The Farm Bill programs are designed as risk management tools. By understanding how the different options work, producers can establish the level of risk protection that best fits their operation. This provides producers price or revenue protection from influences beyond their control. This helps producers stay in business – the business of feeding Missourians, feeding the United States, and feeding the world.

LEWIS/MARION COUNTY CATTLEMEN’S ASSOCIATION
The Lewis/Marion County Cattlemen’s Association works closely with the local Extension Office in providing support for educational workshops to the citizens in Lewis and Marion Counties. The association also holds an annual scholarship banquet where scholarship funds are raised to be awarded to college-bound youth in both counties.

This year the organization sponsored a bus tour for area beef producers with stops at the Andras Red Angus Stock farm in Illinois, Busch Stadium and the Monsanto plant breeding facility in St. Louis, Missouri.

Benefits to Lewis County: By providing educational opportunities, current and future crop and livestock producers have access to technology that will enable them to produce higher quality agricultural commodities, thus meeting the demands of an increasing world population.

A Monsanto tour guide explains the need for the world’s grain producers to adopt the Precision Planting program in order to meet the projected food demand by the year 2050.
**Agriculture and Natural Resources**

**Beef Improvement Program**

Six beef producers in Lewis County are enrolled in the Northeast Missouri Beef Cattle Improvement program. These producers sell bulls in the Northeast Missouri Performance Tested Bull Sale held annually in Palmyra, Missouri, as well as off the farm. Public funding helps support the Northeast Missouri Beef Improvement Program where producers utilize research-based information to help them manage their beef operations profitably and efficiently.

*Benefits to Lewis County:* The producers benefit by increasing access to alternative markets for their products that contribute to a more sustainable business. The state of Missouri benefits from more sustainable businesses and families in rural communities. Three producers from Lewis County purchased bulls in the Northeast Missouri Performance Tested Bull Sale and numerous others purchased bulls off the farm from breeders enrolled in the performance-tested bull program. This value-added sale averaged $4,168 on 49 head of bulls.

**Show-Me-Select Replacement Heifer Program**

The Show-Me-Select program focuses on increased adoption rate by farmers in Missouri of management practices that offer potential to improve long-term reproductive efficiency of their herds and resulting profitability. Five beef producers in Lewis County are enrolled in the Missouri Show-Me-Select Replacement heifer program and sell heifers in the Show-Me-Select Heifer Sale held in Palmyra, Missouri each year. Seven producers from Lewis County purchased heifers in the Show-Me-Select heifer sale held in December, where 286 head of heifers sold for an average price of $3,208.00.

*Benefits to Lewis County:* The program focuses on increasing marketing opportunities for and adding value to Missouri-raised heifers with the creation of reliable sources of quality replacement heifers in terms of genetics and management. By increasing the quality of reproductive efficiency in their beef herds, producers in northeastern Missouri brought in $917,550 to the local economy.

**Missouri Livestock Symposium**

The 15th Annual Missouri Livestock Symposium drew an estimated 2,500 people during the one and one-half day program with attendance from all over the Midwest and from Missouri counties statewide. The trade show was highly popular and educational speakers presented workshops to large crowds. More than one speaker commented, “We wish we could do something like this in our state.” Many trade show exhibitors commented that this was one of the best trade shows they attended.

*Benefits to Lewis County:* Educational opportunities provide current and future crop and livestock producers with access to technology that will enable them to produce higher quality agricultural products.
Youth Development

4-H Community Clubs
Lewis County serves youth through five organized 4-H clubs, offering long-term educational experiences in which members learn life skills such as decision making, public speaking and working with others. Clubs also involve children and teens in community service, leadership opportunities and educational trips. Ninety-three Lewis County 4-H members enrolled in a total of 336 projects in 2014, completing over 1000 hours of community club work and more than 430 hours of community serve projects. Many club members attended state events such as Teen Conference, State Congress, State Livestock Judging contest and State Shooting Sports contest.

Benefits to Lewis County: Being on campus is a predictor of youth going onto higher education (Hoover, 2006). Youth who earn their bachelor’s degree, increase annual earnings by $2 million over their lifetime (NACUBO, 2012). If 70 percent of the Lewis County members participating in 4-H events on the MU Campus go onto earning their bachelor’s degree, 4-H would help young people earn $16.88 million more in lifetime earnings.

4-H Volunteer Development
Dedicated volunteers help organize club meetings, fundraisers and events. They provide learning opportunities for youth by teaching life skills and instilling qualities of character like respect and responsibility while maintaining a safe, supportive environment.

Benefits to Lewis County: Sixty-three screened and oriented adult volunteers contributed 6,300 hours to the Lewis County 4-H program valued at $132,300. Adult volunteers served as mentors for our youth, helping them transition into caring, healthy adults who contribute back to their communities.

4-H School Enrichment-Embryology
The Chick It Out Embryology program teaches students about the development of chicks in an egg. Students identify the parts of an egg and discover what each part provides to the developing chick. They are responsible for rotating the eggs three times a day and for checking to make sure the incubator has water and is maintaining the correct 100 degree temperature. Students care for the chicks once they hatch providing feed, water, warmth, and a calm environment.

Benefits to Lewis County: Three hundred thirteen students from 13 classrooms in the Lewis County C-1 and Canton R-V school districts participated in this exciting school enrichment program. Students were provided with the opportunity for a practical experience that connects with the core subjects of communication arts, math, science, and health. Interest and hands on experience with science are more likely to pursue science-related careers, which are critical to our county, state, national and global economy.
Business Development

Business Development Programs
Business Development specialists are headquartered at University of Missouri Extension centers across the state. Centers are also located on the University of Missouri campuses at Columbia, Kansas City, St. Louis and Rolla, and at most of the state universities across Missouri. 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. Specialists work with university faculty and other innovators to win awards in support of the commercialization of technology.

Missouri Procurement Assistance Centers (MO PTAC): Funded by the U.S. Defense Logistics Agency, this program helps businesses win government contracts for a wide range of products and services. Benefits to Lewis County: This is job creation along with increasing small business opportunities in Rural Northeast Missouri. Overall, the University of Missouri’s Business Development Programs (BDP) served people and their businesses state-wide. The total impact for all businesses assisted by the BDP with government contracts is $349,593,124.

Business Counseling
Business Development Program Specialists and business counselors with MU Extension and Missouri Small Business & Technology Development Centers (MO SBTDC) counsel people and their companies with start-up and management counseling, training and other assistance creating stronger companies. As entrepreneurs and innovators, Missouri’s small businesses are becoming a more diverse group that continues to make the state’s economy productive. There are approximately 500,000 small businesses in Missouri. Nearly 98 percent of all businesses with employees are categorized as small businesses. In assisting the owners and managers of those businesses, MU Extension contributes to a county’s economic development through growth in jobs, sales, innovation, technology development and commercialization. Benefits for Lewis County: Three Lewis County residents received business counseling which resulted in $11,000 Total Capitalization, $3,614 sales increase and $1,000 acquired assets in the region. A strong business development base creates stronger communities.
CHART Teen Task Force Pregnancy Prevention Programs

One hundred twenty-one students participated in using the Real Care Baby infant simulators. Most students cared for the simulators for about two days per student for a total of 242 learning days. Students learned about the types of care, frustrations, and stressors involved with infant care on a day to day basis and as a result, 88 percent of the students reported they intend to delay sexual activity and becoming pregnant.

Benefits to Lewis County: The Lewis County teen pregnancy rate is currently 26.1 per 1000, which is a drop from 27.7 per 1000 in 2008. The reduction of teen births to teenagers creates a cost savings of $232,630 in social and health costs in Lewis County.

Trauma: What is it? What can we do?

Trauma can come from many sources: disasters, car accidents, terrorism, abuse and neglect/domestic violence, war experiences, etc. A trauma training program was developed after a school bus rollover accident in Lewis County and was delivered to six LaGrange Youth Center staff and two parents in the LaGrange community. A second program for 15 local youth explained the emotions they might be feeling and why it’s important to talk to adults.

Participants learned:
- Signs/symptoms of emotional trauma
- Causes of trauma including vehicle accidents
- What are considered normal reactions to trauma
- Signs/symptoms that are cause for concern
- Importance of early detection and treatment, particularly in children

Benefits to Lewis County: Education regarding what is normal and things to do for self-care or caring for others can help with better outcomes and a reduction of long-term effects that can negatively affect daily functioning. Ninety percent of the staff participants indicated they felt better able to communicate with a person who experienced trauma.

Farm Safety Day

MU Extension specialists Sherry Nelson and Jim Meyer set up a booth at the Lewis County Farm Safety Day. Over 75 fifth graders attended sessions given by Nelson and Meyer about Poison Look-A-Likes and what to do if someone swallows a poison. Demonstrations were also given showing the dangers of a Power Take Off (PTO) and how to stay safe around the farm and other equipment. These programs are made possible by support from the University of Missouri Extension AgrAbility Project.

Benefits to Lewis County: Youth learn to recognize dangers in the household and around the farm which can lead to a safer, healthier home environment. Children who learn how to respond calmly in emergency situations are better adapted to handled crises as an adult.

Sherry Nelson demonstrates how fast accidents can occur on the farm. Students were given examples of possible bodily injuries and many shared stories about friends or family members injured during farm accidents.

Jim Meyer shows how easy it is to mistake every day items for poisons.
Human Environment Sciences

MoTax – Missouri Taxpayer Education

The MoTax Initiative includes the Volunteer Income Tax Assistance (VITA) program which provides pre-tax education, free tax preparation for low income families and assistance to help families use their tax refund to the greatest benefit for themselves and their families. As a result of the MOTax Program, families are able to purchase necessities, increase their cash flow, get and stay current on their bills, reduce the family debt and establish an emergency savings fund.

Benefits to Lewis County: The MoTax program stimulates the local economy by adding federal and state refund dollars and dollars from tax credits. It reduces the demand for public assistance and stabilizes the county tax base. In the northeast region, 353 federal tax returns were prepared with $434,536 in federal refunds and $160,912 in earned income credit coming back to the communities; 152 of the returns were for individuals over 60 years of age.

Building Strong Families-True Colors Personality Profile

True Colors leads participants through a process to determine personality and leadership styles and how those styles directly affect self-esteem and workplace relationships. Participants interact with others to learn strengths and identify how others use and process information.

Benefits to Lewis County: Of the 12 Culver-Stockton College students that participated in the program, 95 percent were able to recognize their strengths, 88 percent understood how others process information, while 92 percent were more knowledgeable about different personalities and how to interact with them successfully. Learning these concepts leads to better work environments and more satisfied employees which creates a well-prepared workforce.

Making Money Count

Workshops and individual consultations teach families to manage their income in order to achieve the greatest benefit for their financial lives. When participants learn how predatory loans work, what they cost and who they target, they are better able to reach their financial goals and increase family stability. Program tools included trackers to record expenses, forms to develop a spending plan, how to check credit reports and how to avoid predatory lending.

Benefits to Lewis County: Of the 73 Lewis County residents that sought financial management assistance, over 90 percent learned how to track their expenses, develop a spending plan and became more aware of predatory lending techniques and practices. Financial management programs assist communities by lowering cost for public assistance programs and increasing financial stability of limited resource families.

Money Habitudes

Money Habitudes is a program that provides an opportunity for participants to learn how their habits and attitudes about money support or sabotage their financial goals, relationships and their lives. Program materials provide hands-on experience that allows individuals to learn about their own money habits and how it influences their everyday decisions.

Benefits to Lewis County: Ninety-six percent of the 26 workshop participants were able to identify their dominant habitude, while 83 percent had a better idea of how they handle money. Lewis County citizens benefit when families learn what influences their decisions to save, spend, earn, invest and go into debt. Sound financial management practices provide for a financially sound community and county.
Food and Nutrition Education

Family Nutrition Program
University of Missouri Extension’s Family Nutrition Program (FNP) reaches 1,912 participants directly and 660 indirectly with nutrition education in Lewis County, a significant percentage of whom are 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.

Youth from pre-school to the eighth grade learn through kid-friendly, hands-on lessons and activities which include opportunities for taste-testing healthy foods and practicing skills that lead to good health. Education for adults includes nutrition, food safety and physical activity as well as food resource management. Nutrition Program Associates (NPAs) go into schools and interact with community members teaching them to make healthier food choices and build healthy habits.

Benefits to Lewis County: The Family Nutrition Program brings $8,872,444.71 in federal funds to the state of Missouri. These funds are used to provide nutrition education to 1,047,203 food stamp recipients and food stamp-eligible citizens of Missouri; 2,316 of these participants reside in Lewis County. The grant also funds one full-time job with quality benefits plus expenses for making the programming available to qualified schools and agencies in the county. Ninety-eight percent of the teachers from across the state reported one or more positive changes in students after participating in the FNP program.

Eat Smart, Be Active
This eight lesson nutrition curriculum is geared toward adults, addressing issues such as grocery shopping and planning, choosing healthier foods, making changes in every day activities and creating tasty, nutritional meals.

Benefits to Lewis County: By learning healthy lifestyle skills, participants celebrate new knowledge to make healthy food and activity choices.

Students at Highland Elementary enjoy a rowing activity as part of the Lewis and Clark Expedition, A Journey of Food Discovery. Students learn the types of food Lewis and Clark ate while on their journey and also discover the different physical requirements they had to achieve to accomplish their goal of opening the way...
2014 LEWIS COUNTY
FINANCIAL SUMMARY

Revenue
County Appropriations .................. $27,173.66

Expenses
Office Salaries .......................... $16,596.00
Council Paid Benefits .................... 1,334.32
Travel ........................................ 4,400.38
Telephone ................................... 1,900.00
Supplies and Services ..................... 600.00
Miscellaneous ............................... 1,715.00
Furniture and Equipment .................. 627.96
Total Expenses ............................ $27,173.66

Council Officers
Chair
Aaron Schmitz
-Farm Bureau

Vice Chair
Linda Williams
-City of Canton

Secretary
Jennifer Wood

Treasurer
Lea Munzlinger

Council Members
Northern District
Lezlie Taylor
Robert Deters
Jim Ellison
Bill Porter

Southern District
Jeff Lay
Martha Roberts
Lucas Stevens
Alva Farr

Appointed Members
Kaley Bozarth
-MFA
Wayne Murphy Jr.
-County Commission

County Commissioners
Wayne Murphy Jr.
Presiding Commissioner

John Campen, Northern District

Jesse Roberts, Southern District

Faculty and Staff Members
Brenda Arnold
Livestock Educator

Deann Turner
Nutrition Program Associate

Katie Hogan
Youth Educator

Chris Coy
Office Manager

Regional Specialists
Serving Lewis County

Karisha Devlin
Agribusiness Specialist

Thomas Fuhrman
Housing and Environmental Specialist

Max Glover
Agronomy Specialist

Charles Holland
Business Development Specialist

Jim Meyer
Nutrition and Health Education Specialist

Sherry Nelson
Human Development Specialist

Jennifer Schutter
Horticulture Specialist

Deborah Whiston
Family Financial Education Specialist

Kent Shannon
Natural Resource Engineer