

# EXTENSION

## UNIVERSITY OF MISSOURI

January 1—December 31, 2011

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Extension  
DeKalb County**  
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**2011-2012  
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John Murphy\*\*, Vice-Chair  
Connie Cole\*\*\*, Secretary  
Brooke Ray, Treasurer  
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Julie Greer  
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Donna Meek  
Kandy Owen  
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*Farm Bureau*

Mary Lou Holley,  
*City of Maysville*

Garry McFee,  
*County Commissioner*

\* *City of Osborn*  
\*\* *MFA*  
\*\*\* *Council Appointed*

### FROM THE DEKALB COUNTY EXTENSION COUNCIL

We are pleased to present you with a copy of the 2011 annual report presented by the DeKalb County Extension Council. This report is a brief overview of the educational programs conducted for the citizens of DeKalb County. Current programming efforts statewide focus on agricultural profitability and viability, building family and individual strengths, building human resources, business, community and economic development, enhancing health and nutrition, environmental quality and stewardship and youth development. The success of University of Missouri Extension programming in DeKalb County would not be possible without the help and support of individual volunteers, groups, organizations, businesses, local and county government officials, and the research-based information provided by the land-grant university system.

We appreciate the continuing support that you have provided to Extension as we strive to **enrich people's lives. We hope this report provides a greater understanding about University of Missouri Extension programming efforts.**

Sincerely,

*Don L. Miller*  
Don Miller,  
County Program Director

*Connie Cole*  
Connie Cole,  
Council Secretary



**Live. And Learn.**  
[extension.missouri.edu](http://extension.missouri.edu)



## DEKALB COUNTY ANNUAL REPORT 2011

January 2012

Dear County Commissioners and Associated Friends of MU Extension:

**"Efficiency" and "Innovation" are two watchwords of citizens and government in our currently challenging economy. I am pleased to report that University of Missouri Extension has kept these words in the forefront and acted accordingly for the benefit of Missouri residents statewide.**

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 provided from counties is leveraged with an additional \$6.00 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 federal Expanded Food and Nutrition Education Program provided \$1.6 million to the state of Missouri. These funds provide nutrition education to limited-resource families. Participants who graduate from the program improve the way they manage their food dollars; demonstrate acceptable food safety practices and make healthier food choices. A healthy labor force is critical to attracting and keeping jobs in Missouri. In addition, this important program reduces **healthcare costs over the participant's lifetime, saving taxpayers money in reduced public healthcare benefits and insurance premiums.***

*2011 has been a difficult year due to natural disasters in Missouri. The MU Extension statewide Community Emergency Management Program and local emergency management groups provided immediate on-site assistance by coordinating with the State Emergency Management Agency, Red Cross and other groups and by providing online resources through web pages and other media. As a result, citizens learned how to avoid scammers, ensure safe drinking water and food, and recover from a disaster. MU Extension's emergency management program helps communities, businesses, schools and residents reduce a community's disaster recovery period. This action saves lives and countless dollars in emergency recovery operations and avoids job loss. Additionally, the whole community builds a greater sense of cohesion.*

**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. Quart  
Vice Provost and Director

# University of Missouri Extension Roles & Responsibilities

In Extension, three levels of government—federal, state and local—work together. At each of these levels, Extension involves a great number of participants. Each participant has prescribed roles and responsibilities. The success of University of Missouri Extension depends upon each participant performing his or her role effectively and efficiently.

This is an overview of participation in the Extension system at each level.

**Federal** The federal partner is the U.S. Department of Agriculture, which administers the Cooperative Extension System. ES-USDA roles:

- Identification of issues and trends that affect and can be affected by Extension;
- Recommendation of appropriate legislation and policy to Congress;
- Communication of funding needs to Congress;
- Consultation on program development with state Extension services; and
- Evaluation of program implementation and progress.

**State** At the state level, Extension is implemented through land-grant universities. In Missouri, these are the University of Missouri - Columbia and Lincoln University, working under an agreement to cooperate in programming. The **UM Extension's responsibilities:**

- Maintenance and promotion of the land-grant system, including research, resident teaching and Extension;
- Receipt and disbursement of funds for Extension activities from a variety of sources;
- Cooperation with USDA and other federal agencies that affect Extension or participate with Extension in the delivery of programs;
- **Identification of issues and trends that may affect the state's residents;**
- Provision of information to regional specialists related to research, trends and issues;
- Employment of professional staff at state and local levels to carry out Extension programs; and
- Supervision of county Extension offices.

**County** At the county level, MU Extension field faculty specialists work in partnership with local people to identify, plan and execute appropriate educational programs.

Each county has a county program director (CPD) who has coordination duties in addition to his/her programmatic responsibilities. The CPD assists the county Extension council in planning and implementing local educational programs using available resources—financial, professional staff and volunteers.

County commissions have three roles related to Extension:

- Participating in extension council deliberations through an appointed member to the council;
- Helping identify local educational needs and priorities; and
- Providing funds from county revenues for support of local Extension office and programs.

**The county extension council's responsibilities in Extension education include:**

- Assisting in the identification, planning and delivery of educational programs to meet local needs, including the collection of fees, solicitation of contributions, and cooperation with other counties;
- Approving the assignment of regional specialists headquartered in the county;
- Managing the finances of local Extension activities, including working with county commissioners to prepare a local budget that will meet the needs of the county plan of work; paying salaries and expenses related to operation of the local office; and providing the commission with an accounting of expenditures;
- Electing and organizing the local extension council.

University of Missouri Extension is a complex organization requiring the involvement of many participants to be successful. It is a three-way partnership with federal, state and local governments cooperating to provide educational resources to the citizens of the state.



## PROFESSIONAL STAFF SERVING DEKALB COUNTY

Specialist	Direct Phone Number	Toll-free Number Extension 888.449.2101
Don L. Miller, Human Development , DeKalb CPD	816.279.1691	701
Meridith Berry, Regional Information Technology	816.279.1691	711
Jim Crawford, Natural Resource Engineering	660.744.6231	713
Debbie Davis, 4-H Youth Development Specialist	816.539.3765	704
Clinton Dougherty, Business Procurement Specialist	816.279.1691	701
Wayne Flanary, Agronomy Specialist	660.446.3724	703
Janet Hackert, Nutrition and Health Education	660.425.6434	714
Tom Fowler, Horticulture	816.279.1691	709
James Humphrey, Livestock Specialist	816.324.3147	712
Robert Kelly, Agricultural Business	816.279.1691	702
Tom Kelso, Business & Industry	660.446.3724	705
Beverly Maltsberger, Community Development	816.279.1691	706
Connie Neal, Housing & Environmental Design	660-359-4040	708
Rebecca Travnichek, Family Financial Education	816.324.3147	707
<i>Karma Metzgar, NW Regional Director</i>	816.279.6064	715

## SUPPORT STAFF

Katie Cook, Bookkeeper  
Dale Hunsburger, 4-H Youth Program Associate  
Vickie Kilgore, 4-H Secretary

Connie Mowrer, Nutrition Educator Assistant  
Angie Rhoad, Nutrition Educator Associate  
Stephanie Weddle, Nutrition Educator Assistant

## 2011 State Fair Farm Family

Darrin & Lori Keller of Clarksdale, MO, were among **107 families honored during the Missouri State Fair's Farm Family Day, Aug. 15.** The Keller's, along with their children, Cierra, Kendal and Lane , were selected as the DeKalb County Missouri State Fair Farm Family. The annual event was sponsored by Missouri Farm Bureau, Missouri Department of Agriculture, Missouri State Fair, University of Missouri Extension and the University of Missouri College of Agriculture, Food and Natural Resources. Farm Family Day provides the opportunity to recognize a farm family from each county in the state. Criteria for selecting a farm family includes: families who are actively engaged in agricultural activities and rely on the University Extension and the College of Agriculture, Food and Natural Resources for programming and technical assistance. Selected farm families also demonstrate community involvement such as church, school, Farm Bureau and other farm organizations. Typically, farm families have



children who are involved in 4-H, FFA, or other youth organizations and are respected by their neighbors and community.



# 2011 Financial Information

## EXTENSION COUNCIL 2011 BUDGET

County Appropriations	\$11,000.00
Gift/ Grants/ Contracts	\$281.66
<b>Total Income:</b>	<b>\$11,281.66</b>

<b>Office Expenditures:</b>	
Secretarial Support Payroll	\$2,687.70
Youth Program Assistant Wages	\$2,688.40
Postage	\$424.22
Telephone	\$371.16
Rent/Lease Space & Equipment	\$0.00
Publishing/Printing	\$997.07
Supplies & Services	\$525.78
Travel	\$2,845.83
Insurance	\$221.50
Miscellaneous	\$520.00
<b>Total Expenditures:</b>	<b>\$11,281.66</b>

Approved 2012 Appropriations: \$11,000.00



**DeKalb County Extension Center's  
Toll-free Number  
(888) 449-2101**

## State, Federal and County Funding for Extension

University of Missouri Extension programs in the county are funded by DeKalb County, state and federal appropriations. Local funding for support of the DeKalb County Extension Center is provided by the DeKalb County Commissioners. They provide funds for office operating expenditures, support staff salaries, and travel expenses of extension specialists who conduct educational programs in DeKalb County. A special acknowledgement and appreciation is given to the DeKalb County Commissioners supporters of extension in the community for making this year a great success.

## University of Missouri's Contribution to County Extension Programs

The University of Missouri provides salaries and benefits for the Extension Specialists and also supplements most of the youth program assistants' salaries throughout the state. The University provides a research base, in-service training expenses, including travel and lodging for staff, and funds for computer equipment costs and maintenance. Access to the resources of the entire University of Missouri System are available to the citizens of DeKalb County through their local extension center.



### University of Missouri Extension Mission:

*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.*

### University of Missouri Extension EEO Statement:

*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.*

## Parenting for Low-Income Families

Don Miller, Human Development Specialist

Statements such as “I had fun and I learned a lot” and “you gave me some new ideas and tools to use as a parent with my kids” are a sample of the comments given by participants. One participant even said that “this class was so good I can’t wait for the next one” another made the comment “this was not only a beneficial class, but totally fun.” For several years University of Missouri Extension has been teaching parenting classes to low-income families in DeKalb County. By partnering with Community Action Partnership (CAP), families have received classes on strengthening their families, basic financial management, positive discipline, self-esteem, stress management, communication and balancing family responsibilities. These classes have been well received by the participants with most saying that they not only found the classes enjoyable but also were provided with some needed tools to help them be successful parents and families. Parents that are more confident in their parenting role are a value to the community as they will be more likely to raise children who do well in society.



**Above right:** Stress dots are a good visual, helping participants understand how stress affects their bodies. This is part of the Building Strong families curriculum.

## Prisoner Re-Entry

Don Miller, Human Development Specialist

By working with Probation & Parole, as well as many other agencies and churches in the Cameron area, University of Missouri Extension is trying to help offenders be successful in being able to stay in their communities after being released from prison. Jobs, transportation, family relations, housing etc. are difficult for many offenders as they are released back into society. Many have been in prison for so long that it is difficult for them to adjust to all the changes they find on the outside. It benefits all of us to help them be honest, productive citizens instead of returning to prison and incurring the costs their incarceration.

## University of Missouri System Impact on DeKalb County

### UM Students from Your County: 35 students

- ◇ 23 - Undergraduates
- ◇ 12 - Graduates
  
- ◇ 28 - Full-time students
- ◇ 7 - Part-time students

### UM Alumni Residing in Your County

- ◇ 115 alumni
- ◇ 60 Selected School Alumni
  - 1 - Medicine
  - 1 - Nursing
  - 3 - Health Professions
  - 4 - Dentistry
  - 2 - Pharmacy
  - 3 - Veterinary Medicine
  - 299 - Agriculture
  - 14 - Engineering
  - 3 - Law

### UM Alumni as K-12 Teachers and Administrators in Your County in 2011

- ◇ 5 teachers
- ◇ 4% of all county teachers

### UM Employees and Retirees Residing in Your County in 2011

- ◇ 8 people employed by UM
- ◇ 2 UM Retirees and Beneficiaries

### Tax Revenue and Income Generated by UM Employees and Retirees Residing in Your County in 2011

- ◇ \$6,127 in Missouri State Taxes
- ◇ \$24,223 in Federal Taxes
- ◇ \$224,355 in Salary and Retirement Income returning to the county

### UM Services Received in Your County in 2011

- ◇ 13 patients seen at UM Health Care with \$1,556 of uncompensated care.
- ◇ 19 patients seen at the UMKC School of Dentistry with an average of \$37 per patient in uncompensated care.
- ◇ 1,446 educational contacts with MU Extension through MU Extension events held in your county.



*\*source- Office of Government Relations, 309 University Hall  
Columbia, MO 65211*

## Living Hope Thrift Store & Food Pantry

Bev Maltsberger, Community Development Specialist

Bev meets and advises the board of the Living Hope Thrift Store & Food Pantry in Maysville. Living Hope has grown and expanded their service to many more low-income families and senior citizens in need. They continue to serve well over 100 families per month.

## Maysville School Safety Day

Bob Kelly, Ag Business Specialist

113 students from Maysville, Union Star and Osborn schools attended the Ag Safety Day workshop. The program consisted of five stations—Power Take-off (PTO) safety, large animal safety, ATV operation safety, Poison look-alikes, and lawn mower safety. Teachers stated several positive comments— **“This was the best ‘assembly’ they had ever been to. Can you do this again for more kids?” Administrators have requested the program again for 2012 stating, “We think our kids can benefit greatly from this type of program. Can you address other safety issues?”**

## FREE Tax Prep w/ MU Extension

Rebecca Travnichek, Family Financial Education Specialist

Nine DeKalb County residents took advantage of FREE Tax Preparation in 2011 in Cameron. Two days of free tax preparation resulted in eight (8) tax returns prepared, totaling \$4,8510 in federal and state tax refunds. [Volunteer Income Tax Assistance \(VITA\)](#) sites provide free tax preparation. Some VITA sites can electronically file or E-file your tax return.

## Energy Management Programming

Connie Neal, Housing & Design Specialist

Connie Neal met with approximately 15 retired teachers from DeKalb County. They looked at how we use energy in our homes based on demographical information from the Dept. of Energy for the Northwest Region. They discussed home energy audits, the importance of maintenance for HVAC systems, as well as evaluating lighting needs and use patterns. They explored things to consider when formulating long term goals for improving **your home’s energy efficiency. Energy relevant terminology, types of heating and cooling systems, types of insulation and where to insulate as well as water heaters/ appliances, windows, and doors were also discussed.**



## MO PTAC

Clint Dougherty, PTAC Specialist

The Missouri Procurement Technical Assistance Center (MO PTAC) in St. Joseph continues to be an invaluable resource to the business community in Northwest Missouri. Through the efforts of procurement counselor, Clint Dougherty, more than 67 businesses have received counseling and training in government contracting in 2011. Clients of the St. Joseph PTAC office have been awarded nearly \$1.2 million in government contracts in 2011. For nearly 20 years the MO PTAC program has worked with Missouri businesses and has assisted those businesses in obtaining more than \$2 billion in awards.

The Procurement Technical Assistance Program was created in 1985 by Congress to assist small businesses in becoming successful government contractors. Small businesses can get assistance in vendor registrations and business certifications such as 8(a), HUBZone, and Woman-Owned Small Business at the federal level and Minority/Woman Business Enterprise certifications at the state level. Clients also receive assistance in finding potential bid opportunities and writing quotes/proposals for submission to government agencies. The MO PTAC office also assists with marketing efforts and serves as a source of information for updates to government rules and regulations related to the purchasing environment. Courses are offered quarterly through the St. Joseph office that provide clients with a general overview of government contracting.

## Introduction to Quickbooks

Kevin Hansen, Ag Business Specialist

This past year, opportunities were available for individuals to obtain training in recordkeeping using the powerful record program of QuickBooks. Trainings were taught in a computer lab room with hands on training for each individual. Concepts learned were setting up a business, understanding the use of customers and vendors and utilizing income and expense accounts as well as bank accounts. Knowledge was then passed on with how to incorporate reporting with decision making to improve bottom line performance in the business.

After the class was over, 8 out of 9 returned surveys or 88 percent of the respondents stated that they could easily create a company, and modify lists and accounts. Seven out of nine or 78 percent stated that they could easily reconcile their check register and enter and pay bills. Overall knowledge base went from a 1 to a 7 on a scale of 10. Long term, 6 of the 9 surveyed indicated using the program. While doing so, they are able to make better business decisions based off of their reports provided. Surveys indicate that while using the program, they are getting information to run their business that they otherwise would not have had provided to them. Five participants from DeKalb County attended this training in Chillicothe.

## Agronomy

Wayne Flanary, Agronomy Specialist

The value of crops in the Northwest Missouri is an economic driver for the region. The value of all crops including row crop, forages and commercial horticulture are \$303 million in the northwest region. To maintain a competitive viable agriculture requires the latest research, education and resources to continue its growth.

The agronomic programming effort is focused on timely delivery of crop management information and research to the seven counties in the northwest region. The programming effort is accomplished through media such as radio, newspaper, newsletters, meetings and **answering grower's questions.**

Each week, "Crop News and Notes," an agronomic column is written and distributed to area papers and radio stations in Northwest Missouri. The column communicates information regarding fertilizer usage, pests attacking crops, and various crop management topics. The column is sent to 17 local newspapers and 11 radio stations.

Another way we communicate with growers is through the use of an electronic email newsletter with a distribution

list of 329 growers. The monthly electronic newsletter allows us to quickly inform producers of a pest outbreak and what control measures should be taken.

Winter Ag Update meetings focus on critical topics for both row crop and livestock producers. Pest topics such as corn and soybean fungicides, seed treatments, and new technologies are presented yearly at these meetings. Private pesticide applicator license recertification and training is conducted also during the Ag Updates. Other **meetings such as the Corn grower's association meetings** are held annually along with other timely meetings to address emerging crop pests and issues.

Crop management demonstrations are conducted for local growers at the Graves-Chapple Research Center and forage research at the Hundley-Whaley Research Center. Nitrogen management, planting populations, hybrid and variety selection, pest control practices are demonstrated during field days at Graves Chapple Research Center and nitrogen timing and legumes at Hundley-Whaley Research Center. Research information from the site is delivered through an annual report, on the web and during winter meetings.

## Livestock

Jim Humphrey, Livestock Specialist

Agriculture continues to provide a solid base for the economy of Northwest Missouri, and livestock production continues to be a significant part of that economy. During 2011 we held several livestock and forage educational meetings on a local and regional basis throughout Andrew, Buchanan, Caldwell, Clinton, DeKalb and Livingston counties. Additionally we provided an electronic livestock **newsletter "Stock Talk" on a monthly basis as well as news releases and radio programs throughout the year.** Below is a list of the major educational programs we have provided to livestock producers this past year.

### Commercial Agriculture State Beef Tour

A one-day tour was held at four beef/forage operations located in Andrew County, Missouri. These operations showcased how they upgrade cattle, the construction and design of new livestock hoop buildings, dealing with receiving cattle, managing trichomoniasis, New Zealand Feed Reader, managing for maternal and carcass traits, Show Me Beef University, water and grazing systems, using ultrasound in pregnancy diagnosis, not feeding hay until February, managing your genetics, and beef nutrition. Over 150 producers from throughout the state of Missouri and Iowa attended the beef tour on Saturday August 27, 2011. Over \$5,500 was generated through donations acquired by the University of Missouri Extension Commercial Agriculture Program, the Andrew County Extension Council, and Jim Humphrey, to ensure this was a top notch educational program for all attendees. 16 residents of DeKalb County attended this tour.

## Youth Livestock

Extension continues to hold several of the Show-Me-Quality Assurance educational programs throughout the region, some by ITV and some as face-to-face. These programs are designed to educate youth livestock producers about animal ethics, proper handling of livestock, quality assurance and that the livestock our youth are showing can have a positive or negative impact on the rest of the livestock industry. These programs are usually well attended and we have several hands on activities we do with the participants to help get our message across to them.

### Grazing Wedge & Digital Pasture Plate Meter

In 2011 Bob Kelly and Jim Humphrey continued working with the New Zealand Feed Reader as well as their work with the Digital Pasture Plate Meter they purchased from New Zealand. With the help of several area producers we continued measuring the density and quantity of forages on locations throughout Northwest Missouri. In addition to the forage measurements we were obtaining we kept track of management practices producers were performing on their individual operations. This information is being kept for future comparisons. Once forage measurements were taken they were entered in a web based program developed by the University of Missouri Extension Plant Sciences Division called the **"Grazing Wedge"**. **Additionally, the grazing wedge creates charts that allow producers to monitor and track forage growth and yield over multiple months and years.**

# FAMILY NUTRITION EDUCATION PROGRAM

## JANET HACKERT & KELLI WILMES

University of Missouri Extension Family Nutrition Education Programs (FNEP) reached 16971 low-income participants with nutrition education in the Northwest Region during 2011. FNEP provides information on nutrition, food safety, and physical activity for lifelong health and fitness.

Nutrition education for youths provides information in kid-friendly terms and lessons with hands-on activities. Activities include opportunities for taste-testing healthy foods and practicing skills that lead to good health. Education for adults includes nutrition, food safety, physical activity, and food resource management.

Every year FNEP staff are enlightened by the students reaction to the program. DeKalb County FNEP assistant, Connie Mowrer reported from the **Stewartsville school**, *"This year, my last lesson was the week students returned back to school from Christmas break. I was surprised how many of them reported making and/or eating foods we had tasted together during class. Some foods mentioned were: fruit fizzy; tortilla roll-ups; hummus; baked chips; yogurt sundaes (for breakfast). The kids are always excited on food-tasting days & it's exciting for me to see that what we do in class goes home with them and reaches the entire family."* - Connie Mowrer



During 2011, 14,744 youths and 2,227 adults were served through schools, community groups and agencies. The following is a list of the locations where participants were served in DeKalb County—

Elementary Schools: Maysville, Osborn, Stewartsville, and Union Star.

Agencies: DeKalb County Library/ Summer Reading Program, Community Action Partnership of Greater St. Joseph/ Youth Camp, and Cameron Public Library/ Clover Kids Camp.

For youths who participated in FNEP, results summarized for the state revealed the following positive impacts:

STUDENT CHANGES REPORTED BY TEACHERS		
	Percent of teachers who observed each type of student	Percent of teachers whose students talked about this
More aware of nutrition	91%	85%
Make healthier meal and/or snack choices	62%	75%
Eat breakfast more often	47%	51%
More willing to try new foods	76%	73%
Improved hand washing	84%	76%
Improved food safety other than hand washing	36%	40%
Increased physical activity	62%	64%

- Three thousand three hundred sixty (3,360) teachers gave us feedback.
- 53 percent have participated in FNEP for three or more years.
- 98 percent (3,305 teachers) reported one or more changes in students after FNEP.

The Family Nutrition Program (FNEP) brought \$8,951,100.00 in Federal funds to the state of Missouri. These funds were used to provide nutrition education to 433,152 food stamp recipients and food stamp eligible citizens of Missouri. 501 of these participants reside in DeKalb County.

Participants in FNEP 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.



*At church on Sunday I had a couple come up to me and tell me they had been playing my game at home. They explained that after I had been to visit their granddaughter's 2nd grade class in Union Star, Avery had been sharing different stories of leaving milk foods out or putting them away, the grandparents were instructed to make happy or sad faces according to if the food was safe to eat or not. (The I Spy Safe Milk, I Spy Spoiled Milk activity from Building MyPyramid Curriculum) At a later time grandpa realized that Avery had left the turkey out after fixing a sandwich. So he asked her what face they should be making now and what needed to be done to fix it. I've had many reports of the same 2nd grade classmates requesting to fix the snacks at home that we tried at school. It's nice to know that the information that we are sharing with them at school is going home with them!*  
- Stephanie Weddle, DeKalb County FNEP Assistant

## A community of 64 youth building life skills, engaging in science and connecting to community.

One of every four Missourians between the ages of 5 and 18 participated in a Missouri 4-H program in 2011.

### 4-H Connects Kids to College and a Higher Quality of Life

Missouri 4-H Members are two times 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). Being on a campus is a predictor of youth going on to higher education (Hoover, 2006).

- DeKalb County youth ages 5-18 participating 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 (Porter, 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 degrees, increase annual earnings by \$2.01 million over their lifetime (Porter, 2003). If 70% of the DeKalb County's members participating in 4-H events on the MU Campus go onto earning their Bachelors, 4-H would help young people earn \$35.18 million more in lifetime earnings (64 youth X 0.70 X @\$2,010,000 = \$90.04 million).**

#### 4-H clubs

4-H participants = 140

DeKalb 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 school programs

4-H participants = 75\*

DeKalb 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 DeKalb County is Embryology. \*Duplicates not removed

#### 4-H youth and adult volunteers

4-H participants = 25

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 \$18.70 per hour, based on average Missouri incomes, the contribution of DeKalb County 4-H volunteers was worth more than \$46,750 in 2011! More importantly, these adults serve as mentors for our youth, priceless.

#### References:

- Hoover, E. (2006). *Academic Quality Influences Where High-Achieving Students Enroll*. *Chronicle of Higher Education*, Retrieved on May 8, 2008 from <http://chronicle.com/weekly/v52/i33/33a04902.htm>.
- Porter, K. (2003). *The Value of a College Degree*. Washington, D.C.: ERIC Clearinghouse on Higher Education.
- Lerner, R.M., Lerner, J. V. (2008). *4-H Study of Positive Youth Development*. Boston, Massachusetts: Tufts University.
- Zaff, J.F., Moore, K.A., Papillo, A., Williams, S. (2003). *Implications of Extracurricular Activity Participation During Adolescence on Positive Youth Outcomes*. *Journal of Adolescent Research*, 8 (6), 599-630.



## 4-H Grows Future Scientists

Annually, 4-H faculty, staff and volunteers create opportunities for 309,285 youth. 4-H project work and related educational experiences helps youth explore interests from animal science to aerospace, resulting in increased interest in science at a rate three times that of non-4-H peers. Interest in science is a predictor for young people to choose science-related careers. This interest in science, along with **4-H members' 70 percent greater likelihood to go to college** than youth participating in other out-of-school programs, is helping grow future scientists. Future scientists are critical to our state, national and global economy; **three-quarters of Missouri's 9.5 billion in products and services exported in 2009** were science, engineering and technology-based industries (Lerner and Lerner, Wave 6; MERIC).



## 4-H Kids Move

Annually, 4-H faculty, staff and volunteers create opportunities in Healthy Living for 239,039 youth. 4-H project work and related educational experiences helps youth explore interests in nutrition, health and physical activity. 4-H Youth are 3 times less likely to engage in risk behaviors affecting their health and 25% more engaged in helping others than youth in other out-of-school programs. Eating healthy and being physically active at an early age is important. Young children are among the most active of all segments of the population. By the teen years activity levels begin to decline, continuing into adulthood. The Center for Disease Control predicts the direct health costs to Missourians associated with obesity to be \$3.37 million for 2013 and \$8.2 million by 2018 if Missourians waistline keeps expanding.



## 4-H'ers are Leaders for Life

Annually, 4-H faculty, staff and volunteers create opportunities for 336,318 youth. 4-H project work and related educational experiences help youth explore interests in citizenship, communications and leadership. 4-H Youth report 3 times more opportunities than their non-4-H peers to engage in meaningfully community leadership roles. This interest in leadership and community service along with **4-H members' 70 percent greater likelihood to go to college** than youth participating in other out-of-school programs is growing leader's today and for tomorrow.

Compared to non 4-H Youth, 4-H Youth are...

- 70% more likely to participate in science, engineering, or computer technology programs
- 40% more likely to pursue science, engineering, or computer technology courses or career
- 40% more likely to be doing well in science, engineering, or computer technology courses
- 300% times more likely to be helping and contributing to their families and communities
- 300% less likely to engage in risk/problem behaviors
- 76% more likely to make better grades
- 70% more likely to go onto college
- 20% more likely to graduate from college

Compared to non 4-H Girls, 4-H Girls are...

- 90% more likely to plan to pursue science, engineering or computer technology courses or careers
- 200% more likely to participate in afterschool engineering courses
- 50% more likely to do well in science, engineering or computer technology courses

<http://mo4-h.missouri.edu/resources/evaluation/pyd/pydfacsheet9-25-09.pdf>  
<http://mo4h.missouri.edu/resources/evaluation/pyd/wave6/pydwave6report.pdf>



## CDIS

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.** For FY2011, the MU Conference Office registered 14,583 Missourians in MU Extension conferences. Participants attended conferences on teacher training, natural areas, advancing renewables and greening homes. The Northwest Region sent 841 participants to conferences held by the MU Conference Office. DeKalb County had 35 registrants. For more information, see [muconf.missouri.edu](http://muconf.missouri.edu).

## FRTI

**MU Extension's Fire and Rescue Training Institute (MU FRTI)** is charged with providing 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 25,000 firefighters and the 5.8 million citizens they serve. Courses prepare firefighters for medical emergencies, hazardous materials response, and disaster preparedness and mitigation, as well as fires. In FY 2011, MU FRTI trained firefighters representing all 114 Missouri counties for a total enrollment of 13,048 (28 from DeKalb County) fire and emergency responders equating to over 243,000 student instructional hours of training. For more information, see [mufrti.org](http://mufrti.org).

## LETI

The MU Extension Law Enforcement Training Institute brings state-of-the-art, certified, professional training to law enforcement officers as well as continuing professional education to a wide spectrum of other criminal justice and public safety practitioners. **Established in 1948, the institute has been the state's recognized leader for more than 60 years in providing vital training and education services for Missouri's 20,000 in-service and 3,000 police recruits annually.** For more information, see [leti.missouri.edu](http://leti.missouri.edu).

## MTI

The Missouri Training Institute in the Trulaske College of Business provides continuing education, custom-designed training programs and business 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, effective decision making generational differences and business writing. **The institute's consulting services include human resources, strategic planning, board development and**

facilitating board retreats. In FY2011 more than 2,398 people **from all 114 counties enrolled in the institute's 420 programs.** For more information, see [mti.missouri.edu](http://mti.missouri.edu).

## MUNO

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 the MU Nursing Outreach Office. Nursing Outreach serves a predominantly rural health-care audience with high-quality, affordable continuing education programs using face-to-face, web-based and telecommunication delivery methods. Nurses **from 79 (69 percent) of Missouri's 114 counties and the city of St. Louis** attended continuing education programs sponsored by MU Extension. In FY 2011, 1,519 Missourians participated in a nursing outreach program, and another 1,210 nurses were served through co-sponsored multidisciplinary programs. Participants rate the overall quality of their continuing education experience as 1.3 (4-point scale with 1 being the highest) and indicate they plan to change their clinical practices based on what they learned at Nursing Outreach programs. The office received more than \$360,000 in competitive grants and contracts from external agencies during 2010-2011 and more than \$1.3 million during the last five years. See [nursingoutreach.missouri.edu](http://nursingoutreach.missouri.edu).

## CME

The Office of Continuing Medical Education serves rural primary-care physicians with access to education that allows them to meet requirements for state licensure. Additional programs include specialty medicine as well as health education. Distance learning via the Missouri Telehealth Network provides access to weekly grand rounds from various School of Medicine departments. For more information, see [medicine.missouri.edu/cme/](http://medicine.missouri.edu/cme/).

