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Who we are

Warren County faculty and staff
Rusty Lee
Regional Agronomy Specialist

Carey Benne
4-H Program Assistant

JoLynn Hambach
FNP Associate

Jennifer Henke
Administrative Assistant

2017 Warren County University of Missouri Extension Council operating budget

Income
Annual County Appropriation: $22,645.00

Expenses
Wages/Benefits $8,723.00
Travel $2,700.00
Telephone $1,350.00
Supplies/Services $1,600.00
Utilities $3,622.00
Contract Services $2,800.00
Insurance $1,850.00

Funding for University of Missouri Extension of Warren County
Extension funding is a three way partnership of federal, state and local governments. Federal and state money, through the University of Missouri, pay professional staff salaries, benefits, training costs and part of the communication equipment used in the local office. Local funds provide for operation of the Extension Center, 50 percent of 4-H assistant salary and benefits, travel expenses for staff, telephone, supplies and council expenses.

Staff serving Warren County, (based in other counties)
Pablo Arroyo
Business Development, Specialist

Kenneth Bolte
Agriculture Business Specialist

Charles Ellis
Natural Resource Engineering Specialist

Matthew Herring
Interim Regional Director

Dean Larkin
Community Development Specialist

Colleen Mulvihill
Business Development

Rhonda Shafer
4-H Youth Development Specialist

Wayne Shannon
Livestock Specialist

Patricia Snodgrass
Housing & Environmental Design Specialist

Heather Warren
Nutrition Program Associate

Jana Weitkemper
PTAC Specialist

Warren County Commissioners
Roger Mauzy, Sr.
Presiding Commissioner

Dan Hampson
Associate Commissioner

Hubie Kluesner
Associate Commissioner

State legislators
Claire McCaskill
MO State Senator

Roy Blunt
MO State Senator

Bart Korman
District 42, State Representative

About us
Location:
107 W. Walton, Warrenton, MO 63383

Hours:
Mon-Fri 8:30 a.m. – 4:30 p.m.

Contact info:
Phone (636) 456-3444
Fax (636) 456-4108
Email: warrenco@missouri.edu
Website:
http://extension.missouri.edu/warren
Dear County Commissioners, Citizens and Friends:

Thank you for continuing to make University of Missouri Extension a success; providing educational programs for the residents of Warren County. We are pleased to present the 2017 Annual Report of the Warren County Extension Council as a summary of programs and activities provided in Warren County. The extension council salutes the many volunteers, community leaders and partners who have given time, talents and financial support to help improve the lives of Warren County citizens.

University of Missouri Extension has the capacity and professional resources to adapt University of Missouri educational programs and resources to Warren County’s local needs and aspirations. Through programs in agriculture, community development, 4-H, nutrition, health, food safety, business and continuing education, our goal is to make Warren County a better place to live and work.

Our programs and services are available to all. Visit our website at http://extension.missouri.edu/warren, or stop by the extension center to learn more about programs and services available through University of Missouri Extension.

Tim Churchill
Tim Churchill, Chair
Warren County Extension Council

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 Services of the U.S. Department of Agriculture
- Local stakeholders and partners
University of Missouri Extension

Warren County Annual Report

2018 IMPACT DATA
Warren County

UM System Footprint in the County in 2017

Students
237 County students
- 213 Undergraduates
- 24 Graduates
- 146 Full-time students
- 91 Part-time students
- 44 Pell grant recipients (aid year ’17)

Employees and retirees
39 people employed by UM
- 33 Campus
- 6 UM Health Care
10 UM retirees and beneficiaries

UM salary and retirement income: $1,339,867
UM state tax revenue: $47,899
UM federal tax revenue: $231,701

Alumni
Selected school alumni
- 6 - Medicine
- 72 - Nursing
- 14 - Health Professions
- 3 - Dentistry
- 2 - Pharmacy
- 1 - Optometry
- 13 - Veterinary Medicine
- 105 - Agriculture
- 144 - Engineering
- 11 - Law

Alumni teaching K-12
- 81 teachers
- 22% of all county teachers
- 3 principals and administrators
- 14% of all county principals and administrators

Breakdown by campus

MU
- 76 students
- 576 alumni
- 23 employees

UMKC
- 7 students
- 21 alumni
- 6 employees

Missouri S&T
- 42 students
- 124 alumni
- 0 employees

UMSL
- 112 students
- 436 alumni
- 10 employees

Services provided
Health care
- 234 patients seen at UM Health Care, with $40,405 of uncompensated care
- 5 patients seen at the UNSL Center for Eye Care with an average of $52 per patient in uncompensated care
- 1 patient seen at the UMKC School of Dentistry with an average of $54 per patient in uncompensated care

Extension
- 10,461 total educational contacts from MU Extension to residents of county, including:
  - 100 contacts related to productive farming, better gardening, and managing natural resources
  - 10,245 contacts related to healthy eating and aging, strengthening families, personal finance, or youth development
  - 116 contacts related to starting businesses, developing community leaders, or renewing the local economy

Construction projects
- 1 vendor involved with 1 project, for $52,000

Properties and offices
MU Extension in: Warren County
MU Extension is Here for YOU...

MU Extension partners with several of the University's schools and colleges to deliver noncredit continuing education courses, programs and training in a variety of professional trades that contribute to the success of public-sector organizations and private industries throughout Missouri. During 2017, Warren County residents used MU continuing education to improve personal and trade skills. Continuing education is offered in areas such as nursing, labor training, law enforcement, and fire and rescue training. Personal enrichment programs such as Master Gardener are also offered.

Services Offered ....

Meeting Room Rental
Canner Gauge Tests
Soil Testing
Plant and Insect Identification
Private Pesticide Applicator Training
Publications
Distance Education Training

For questions about services available please contact the office at 636-456-3444.

KWRE- Livewire

The KWRE, 730 AM radio signal reaches over 600,000 Missourians including Warren, St. Charles, Lincoln, Gasconade, Callaway and Montgomery counties. The first Friday of each month MU Extension takes part in the KWRE radio Livewire program. In 2017 MU Extension contributed to 6 hours of learning during 12 live radio programs. The 30-minute live interview format features discussion on topics and time sensitive announcements of coming extension programs. Extension participants in the programming included Rusty Lee, Montgomery Co., Dean Larkin, Montgomery Co., Rich Hoormann, St. Charles Co., Heather Warren, Montgomery Co., Chris Merritt, Warren Co., JoLynn Hambach, Warren Co., and Carey Benne, Warren Co. All topics are related back to free or low cost University of Missouri Extension programs and publications. Each live program mentions services, publications and the extension specialist based in the East Central Region along with contact information for each of the MU County Extension Centers. The live program often receives call-in questions while on the air. Rich Hoormann, horticulture specialist, reports that he has received phone calls for information following programs and surveys taken at extension meetings have cited KWRE Livewire program advertisement as how they found out about the meeting.
State Fair Farm Family

The Nick and Erika Kluesner family (front row) of Warren County were among the 114 families honored during the Missouri State Fair’s Farm Family Day. The Kluesner family was selected as the Warren County Missouri State Fair Farm Family by the Warren County Extension Council and local Farm Bureau. Each year the fair sets aside a day to recognize farm families from across the state who are active in their community, involved in agricultural activities and who participate in local outreach and extension educational programs such as 4-H and FFA.

Soil Testing/Nutrient Management/Forage Testing

Farmers, homeowners and gardeners bring over 150 soil samples to the University of Missouri Extension Center each year. The resulting soil test reports provide information on how to lime and fertilize their soil for optimal crops, lawns, flowers, fruits and vegetables. Farmers also submit manure samples to develop plans for applications to fields to replace fertilizer nutrients. Fertilizer nutrients represent a large part of the input costs in growing crops, and people want to know what should be applied to optimize production while maintaining respect for the environment. Forages are a large part of large-animal diets. Forages are analyzed for nutrient content. This information is used to balance rations for controlling costs, while optimizing growth and performance.

National 4-H Week

The Warren County Commissioners, Roger Mauzy, Sr., Daniel Hampson and Hubert Kluesner, recognized the 4-H clubs of Warren County by declaring Oct 1-7, 2017 National 4-H Week in Warren County. Here, a few of the 208 boys and girls enrolled in the 4-H clubs in Warren County attend the proclamation signing. The 4-H Club has a 100-year tradition of encouraging family and community living through virtues of trust, respect, responsibility, fairness, caring and citizenship.
Warren County 4-H serves youth through six organized 4H clubs which offer long-term educational experiences in which members learn life skills such as decision making, public speaking and working with others. Two hundred and eight members learn by doing under the guidance of eighty two adult volunteers who teach projects ranging from aerospace to veterinary science. Clubs also involve members in community service, camping and educational trips. The youth of Warren County developed leadership and learning skills at the following 2017 regional, state, and national activities: State Congress, 3 members; State Teen Conference, 10 members; 4-H Summer Camps, 25 youths and 5 volunteers; State Shooting Sports, 10 members; State Public Speaking, 1 member; Missouri State Fair: 33 exhibitors; 2 demonstrators; National 4-H Shooting Sports, 1 member; State Livestock Judging, 8 members and 4 volunteers; State Fashion Revue, 1 member; School Enrichment Program (Embryology) 316 students in 20 classrooms; Drone Day, 18 members.

Warren County 4H Clubs
Big Creek
Camp Branch
Country Crossroads
Elkhorn
Homestead
Rolling Stones

Judging and Achievement

One-third of the 4-H Members in Warren County participated in Judging and Achievement Day. Demonstrations, Extemporaneous/Prepared Speeches, Fashion Review, Judging Classes and Oral Reasons are just a few of the opportunities for our members to show off their knowledge, problem solving abilities and public speaking skills. Members who participated earned an expense paid “Out of County Tour” trip. In 2017, forty members visited the Endangered Wolf Center, the Wild Bird Sanctuary and Lone Elk Park.
(right) Thirty Warren County 4-Hers participated in the National 4-H Day of Service and Liberty Tree planting in the City of Marthasville. Pictured here are: William Lee, Nathan Bruegenjohann, Southern Warren County Commissioner Hubie Kluesner, Savannah Krause, Marthasville Alderman Dan Grafath and Matti Haman.

4-H is a community of young people across America who are learning leadership, citizenship and life skills.

(left) Hannah Hoelscher and Madelyn Guss instruct several 4-H members on the importance of knowing residual effects of medicines given to market animals, at the annual SMQA training.

4-H

(right) Extension Council members Eric Kopmann, Bill Miller, and Extension Staff members Carey Benne and Rusty Lee raise money for Warren County 4-H by competing in the Greased Pig Scramble at the Warren County Fair.

(left) In Warren County, 4-Hers participate in a variety of community service projects. Here, Dawn Sherman, assists with the Flag Retirement Ceremony held in Wright City. Other service projects include, Christmas Caroling, Salvation Army, Food Drives, Food Stands, Trash Pick-up, Adopt a Family, Animal Shelters and Valentines for Veterans.
Family Nutrition Education

The Family Nutrition Education Program (FNEP) brought $9,681,129.00 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 838,295 Supplemental Nutrition Assistance Program (SNAP) recipients and eligible citizens of Missouri. There were 3,831,270 educational contacts. This year we had 3,064,781 indirect educational contacts. Indirect contacts are reached through newsletters, health fairs, food pantries and the Show Me Nutrition help line.

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.

In addition to providing nutrition education, in mid-2017, FNEP began partnering with the SNAP Outreach program. Our Nutrition Program Associates (NPAs) are spending an average of 4 hours per week in providing information and assistance with SNAP applications.

Locally, in Warren County, 617 Youth and 3,492 Adult contacts were made for a total of 4,109 contacts. The following is a list of the locations where participants were served in Warren County:

<table>
<thead>
<tr>
<th>Schools</th>
<th>Agencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Hawk Middle School</td>
<td>Agape Ministry of Warren</td>
</tr>
<tr>
<td>Daniel Boone Elementary</td>
<td>Crider Health Center-Warrenton</td>
</tr>
<tr>
<td>Rebecca Boone Elementary</td>
<td>Warren Co Health Dept. (including the Farmer’s Market)</td>
</tr>
<tr>
<td>Warrior Ridge Elementary</td>
<td>Warren Co NECAC</td>
</tr>
<tr>
<td>Wright City East Elementary</td>
<td>Warren Co Senior Center</td>
</tr>
<tr>
<td>Wright City Middle School</td>
<td></td>
</tr>
</tbody>
</table>

Pictured Left:
Warren County Nutrition Program Associate, JoLynn Hambach, displays nutritious ranch cottage cheese veggie dip shaped as spiders at the Lincoln County Council on Aging.

Pictured Right:
Raised beds planted radishes, turnips, spinach at Warrior Ridge Elementary School.
Family Nutrition Education, Continued

In addition to the numbers, JoLynn Hambach shared these success stories demonstrating local impact:

A client from a food pantry in Warren County told his wife, “That’s the nutrition lady that I told you about!” The client’s wife said she had a bunch of questions to ask me. I reminded her that I am not a nutritionist, but that I would be happy to try. She said, “That’s OK. I just want to know how to cook all kinds of squash!” She was pleasantly surprised when I pulled out two squash recipes and read through them with her. By the end of our visit, the client felt comfortable with ways to cook squash, and said that she was going to cook some that evening!

Kindergarteners learning Show Me Nutrition sampled mango. I ran into the teacher a couple of days later. She told me that one of the children had insisted that her mom buy some mango for their family to try at home! They bought the mango, and everyone in their family tried it. The mom was pleased that her daughter wanted to try new things!

8th grade “Into to Agriculture” students at Blackhawk Middle School plant seeds for the “Eating From the Garden” program.

In summary, it has been another successful year in Warren County for FNEP. We look forward in 2018 to more programming opportunities and continued progress in helping to improve the lives of Missouri families. We would like to wish you Happy Holidays and all the best in the New Year.

Thank you,

Teresa DeFord Petefish

Teresa DeFord Petefish
East Central FNEP Coordinator
Agriculture Programs

Sub-Surface Drip Irrigation

Low-pressure and low-flow irrigation systems comprised of small diameter plastic lines laid alongside crop rows, has been used successfully for years in specialty crop production fields. For the 2017 growing season, a research/demonstration field of 6 acres received a permanent installation of a drip system by burying the emitter lines on 5-foot spacing to a depth of 16 inches. This installation placed water directly in the root zone of corn and soybean crops. Amount of water applied was measured and compared to end-of-year harvest yield, for return on investment analysis. This work was carried out by Rusty Lee, Agronomy Specialist-Montgomery; Charlie Ellis, Natural Resources Engineer-Lincoln; and Dr. Kelly Nelson, Plant Sciences-Statewide MU Extension.

A field day of the plots in August was attended by 25 area producers, where they could see first-hand the SDI system, its operation and plant response to the irrigation. Producers learned that while installation costs of $750 per acre is comparable to conventional center-pivot systems, an SDI system fits irregular-shaped fields with 100% coverage of field area that a center-pivot cannot achieve. The low SDI operating costs of $4.16 per acre-inch of applied water is possible due to the lower energy requirements in pumping the supply water, and the lack of moving the distribution structure around the field. Producers observed the plant health and yield differences between the irrigated treatments and the non-irrigated control. Hand-harvest of ears showed an estimated corn yield advantage of 45 bushels per acre.

One of the field day attendees is being an early-adopter and is installing 10 acres of SDI beside his pivot-irrigated fields for the 2018 season. This will be another opportunity for producers to observe the effects of this promising irrigation system. The ability to reduce year-to-year yield variability while also increasing per acre yields will strengthen the sustainability of Missouri producers.

Fescue Seed Head Management

There are 17 million acres of Tall Fescue in Missouri, with the majority of it containing a plant fungus referred to as “Endophyte”. While the fungal infection imparts multiple positive attributes for Tall Fescue, (stand persistence, drought tolerance, tolerance of insect pressure, over-grazing) the negative attribute of the fungal alkaloid by-product reduces animal performance such as lowered weight gain and reproductive efficiency. Management of these effects is critical to the survival of a grazing livestock operation. As a high concentration of the toxic alkaloid exists in the seed head, rotary mowing fescue pastures in the spring is an effective component of managing fescue toxicosis and is practiced by livestock operations across the US.

Field research/demonstration plots were established to evaluate effectiveness of the seed head reduction strategies of rotary mowing, chemical herbicide “Chaparral” application, and a roller-crimper. This work was performed by Rusty Lee, Agronomy specialist-Montgomery; Ted Cunningham, Livestock specialist-Dent; Rachel Hopkins, Ag Business specialist-Washington; and Cope Grass Farms, LLC, cattle producer-Montgomery.

The results showed that either rotary mowing or an application of Chaparral herbicide applied in the Spring, reduced the number of seed heads by 75% as compared to a control of no treatment. While use of the roller-crimper was less effective with a 36% reduction of seed heads, it did stimulate forage growth and dry matter yield increased 13% as compared to the control of no treatment. Rotary mowing and Chaparral had dry matter yields equal to the control. The plots were toured by approximately 120 producers on a forage field day showing that either of the 3 treatments would reduce seed heads, without reducing dry matter yield of the pasture, while promoting animal health and performance.
Agriculture Programs, continued

Private Pesticide Applicator Training

In 2017, 43 adults attended Private Pesticide Applicator Training in Warren County. Growers wanting to purchase and apply restricted use pesticides must have a certified private pesticide applicators license issued by the Missouri Department of Agriculture. Successful completion of University of Missouri Extension private applicator training meets the requirement for the Missouri Department of Agriculture Bureau.

Growers completing the training learned about Integrated Pest Management, and how safe use of pesticides benefits the environment, food systems, water quality, and the general public. They also learned how to protect farm workers and themselves from exposure to pesticides by use of personal protective equipment.

Missouri producers make better informed pest management decisions as they complete the training. Having access to all of the available pesticides registered for use in the state increases the likelihood of successful control of pests and profitable agriculture business operations.

Agronomist Rusty Lee is hosting a soil health talk. Producers from Pike, Lincoln and Warren counties were in attendance to learn the effects of cover crops and no-till planting practices in a corn and soybean rotation.

Nutrition and Health Highlights

Stay Strong Stay Healthy

Stay Strong Stay Healthy, an exercise program designed for senior citizens continues to be a popular program in Warren County. There was session in Warren County in 2017; session attendance was 14 participants. Exercises to improve muscle and bone strength are the main emphasis of the program. Improved balance and flexibility are also desired outcomes. Without adequate muscle strength and bone strength, senior citizens are more prone to falls that cause them physical damage. After completing the program the following data was collected; 68 percent reported sleeping better, 85 percent felt more confident in daily activities, 88 percent felt more flexible and 90 percent felt they had more energy.

Cooking Matters at the Store

As part of the No Kid Hungry campaign to end childhood hunger in America, Share Our Strength's Cooking Matters at the Store teaches participants to shop smarter, and use nutrition information to make healthier choices. Cooking Matters at the Store tours provide families with hands-on education as they shop for food, giving them skills to compare foods for cost and nutrition. Participants learn how to plan and budget for healthy, affordable, and delicious meals for their families. During program year 2016, Cooking Matters at the Store tours were delivered to 34 participants in Warren county.

After attending a Cooking Matters at the Store tour; 88 percent reported improved knowledge, skills, or understanding of maintaining a healthier dietary intake, 94 percent reported using skills and knowledge to shop healthier and reduce food costs.
Business Development Programs

Overall, the University of Missouri Extension Business Development Programs (BDP) assisted companies and businesses across the state by supporting business growth, sustainability, enhancing the creation of new businesses entities and fostering job creation and job retention. The total impact for all businesses assisted by the BDP was:

3,106 new jobs
3,676 retained jobs
198 new businesses
$478,772,408 of increased sales
$403,359,341 in awarded government contracts
$91,002,145 in loans and investments received
$7,622,000 in awarded research grants
$3,239,078 in export awards received
3,458 clients/companies receiving assistance or counseling
10,685 participants attending training events and seminars

The state and regional business development faculty contributing to these successes work with businesses in all counties across the state.

As a result of assistance provided by the MU Extension Business Development program in the assigned East Central Region in FY2017, businesses generated the following economic impact:

- Generated sales increases of $10,251,652
- Secured loans and acquired assets for $4,187,783
- Received government contract awards of $620,437
- Created or retained 492 jobs
- Provided training events for 142 individuals
- An additional 129 residents and businesses received start-up and management counseling, training and other assistance.

The Franklin County Extension Center is the primary center serving Franklin, Gasconade, Warren, Lincoln, Montgomery, Washington, St. Francois and St. Genevieve counties.

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 programs delivered through this network include:

- Missouri Small Business & Technology Development Centers – 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.
- Technology development and commercialization - Specialists in this area work with university faculty and other innovators to win awards in support of the commercialization of technology.
- Missouri Procurement Technical Assistance Centers (MO PTAC) – Specialists in this program help guide businesses in selling products and services to federal, state and local government.
- International Trade Center – Staffed by a specially trained export team this center focuses on helping businesses grow by expanding into global markets.

Mid-America Trade Adjustment Assistance Center (TAAC) - Specialists in this center assists U.S. manufacturers in three states to proactively respond to import competition.

**Pablo A. Arroyo, CGBP, CME**

**Business Development Specialist**

University of Missouri Extension SBTDC
Franklin County Extension Center
### Housing Consultations

One hundred thirty homeowners and renters received Extension’s help with housing issues in 2017 including all counties in the East Central Region and other parts of the state. Many of the consultations were in regard to mold and flooding situations in their home environments. Landlord-tenant issues, water quality, bed bugs in the home and other pests, home maintenance and rising energy costs were also addressed with clients.

### What Did They Learn?

Participants learned of effective strategies to reduce mold in their homes due to home maintenance problems and flooding that had occurred. They increased their knowledge of home energy weatherization and skills in home maintenance. They learned how to control and remove bed bug and other pest infestations. Research-based resources were shared to further education clientele regarding housing concerns.

### What Action Will They Take?

Participants who adopted strategies to reduce mold reported healthier environments for themselves. They were able to stay in their homes and maintain the value of their home. Participants report reduced energy bills by changing lighting, home weatherization, installing energy efficient window treatments and basic home maintenance.

### How Does This Work Make (YOUR) County and Missouri Better?

A home is a family’s single greatest financial investment in most cases. Maintaining safe, secure and healthy homes play a crucial and valuable role for families and in local economic and community development efforts.
Master Gardeners and Community Garden

“Our Master Gardeners spent 2017 helping local residents in planning, planting, cultivating and harvesting vegetables from the 20 raised beds in the community garden. On-site demonstrations and personal instruction was provided every week throughout the growing season. Topics included plant spacing, companion planting and using mulch. We continue to experiment with traditional and new growing ideas and work towards the garden becoming a certified organic garden. During instructional sessions, Master Gardener certification training was encouraged through the University of Missouri Extension Service. All produce not used by the gardeners was donated to the local food bank.

Further, our Master Gardeners conducted sessions on various topics working with area community groups. We regularly cooperate with the Scenic Regional Library, Warren County Health Department, Warrenton Garden Club, Agape Ministry, Turning Point and 4-H.”

Wanda Thomas

MU Extension Continuing Education

University of Missouri (MU) Conference Office

The MU Conference Office provides full-service meeting management for a variety of noncredit educational programs. In FY 2017, the MU Conference Office organized 72 conferences for more than 20,000 people in teacher education in math, science and writing; crop management and agricultural lending, as well as statewide youth leadership programs, generating $3.2 million in revenue. muconf.missouri.edu

Fire and Rescue Training Institute (MU FRTI)

In FY 2017, MU FRTI celebrated its 85th anniversary of providing continuing professional education and training to Missouri’s fire service and emergency response personnel. In addition to fire training, courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation. In FY 2017, MU FRTI trained 11,319 firefighters and emergency responders from 932 departments, organizations and agencies throughout all 114 Missouri counties. mufrti.org
MU Extension Continuing Education, continued

Law Enforcement Training Institute (LETI)

LETI provides training and education for Missouri’s 17,000 personnel and police recruits and presentations to community and civic groups, as well as collaborative programs with agencies from 31 states. In FY 2017, LETI reached nearly 2,000 police and emergency responders. With MU’s Human Environmental Sciences department, LETI piloted Taking Care of You and Mental Health First Aid for Law Enforcement, helping participants better understand mental illness and how it impacts their work. Other programs include advanced animal cruelty investigations training and armed intruder and personal safety response. Students receive over 700 hours of basic training and certification, with other topics and certifications like Crisis Intervention Team Training available. leti.missouri.edu

Missouri Training Institute

The Missouri Training Institute provides continuing education programs in business, as well as customized training programs and consulting services for business and industry and public, nonprofit and educational organizations and institutions. In FY 2017, 10,630 people enrolled in the institute’s 371 programs that cover diverse business practices, such as human resource management, team building, decision-making, strategic planning and leadership. mti.missouri.edu

MU Nursing Outreach

Nursing Outreach serves mainly rural health-care workers with high-quality, affordable continuing education programs using face-to-face and online delivery methods; 92 percent live outside the St. Louis and Kansas City metro areas. In FY 2017, nurses from 77 Missouri counties and the city of St. Louis attended continuing education programs. Another 867 nurses and 1,986 health care professionals — including social workers, nursing home administrators and psychologists — were served through multidisciplinary programs. nursingoutreach.missouri.edu

Center for Continuing Medical Education and Physician Lifelong Learning (CME/PLL)

CME/PLL serves MU Extension and the MU School of Medicine by educating physicians and other health care providers to improve the standard of care in Missouri. In FY 2017, CME/PLL offered 1,678 noncredit programs, courses and activities, serving 27,345 people, as well as 14 accredited medical conferences, including the annual Missouri Telehealth Network Summit on trends in this emerging healthcare arena; an Ellis Fischel Cancer Symposium on holistic approaches to cancer care; and one of the world’s largest multidisciplinary conferences on dialysis. CME/PLL also provided online training for 6,400 state mandated child protection reporters in 20 occupational fields. medicine.missouri.edu/cme

Veterinary Medical Extension and Continuing Education (VMECE)

Veterinary Medical Extension provides information and consultation to veterinarians and livestock owners on issues such as disease risks, rising input costs and regulations that impact farming operations. In FY 2017, VMECE provided 17 continuing education events for veterinarians needing credit to renew their licenses. Twelve events addressed antibiotic label changes that went into effect on January 1, 2017, and how to write a veterinary feed directive. The rest dealt with preventing and responding to disease outbreaks in Missouri livestock operations. The VMECE team also presented at more than 40 meetings across the state, educating animal owners about the antibiotic label changes. VMECE also taught food animal production medicine to MU College of Veterinary Medicine students and collaborated in research that addressed bovine reproduction. vmth.missouri.edu

Labor Education

The Labor Education Program works with members and leaders of workplace-based organizations across Missouri to help them develop skills, act effectively in the workplace and be informed and active participants in their communities. In FY 2017, the program offered 35 courses and conferences to 952 participants, most of whom are leaders of organizations representing the economic interests of more than 20,000 working people in Missouri and surrounding states. labored.missouri.edu