

2016 Annual Report

Dunklin County Extension



UNIVERSITY OF MISSOURI
 Extension

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January 5, 2017

Dear County Commissioners and Friends of MU Extension:

The past year was a busy one for University of Missouri Extension. As a long-time extension professional and newcomer to Missouri, I have found the support from people like you to be remarkable. Missouri is a special place with a promising future.

Through the efforts of faculty, staff and amazing volunteers, MU Extension connects millions of Missourians with knowledge they put into action in their daily lives. Using a range of learning experiences, we reach people of all ages and backgrounds, in every corner of the state.

In response to direct input received from local councils and the unique nature of each county, extension programs vary slightly across the state. This strength of local flexibility and public engagement enables county-based Mizzou faculty to provide local learning experiences that improve lives and community vitality. For example:

- MU Extension business specialists helped local Missouri businesses achieve sales increases of \$186 million while creating or retaining 7,766 jobs.
- Helping assure access to health care in local communities, MU Nursing Outreach made it possible for 2,094 nurses keep their skills up to date.
- Our 4-H youth development specialists and other extension team members worked with volunteers and community leaders to reach 269,000 youths ages 5 to 18 across the state.
- Anticipating the needs of Missouri's aging farm population, extension faculty developed workshops that target estate planning, succession and retirement planning specific to farmers.

These are just a few examples of how Mizzou's commitment to extension and engagement benefitted Missourians this past year.

In the interest of better serving Missourians, we are conducting a statewide needs assessment. It will include extensive input from local communities and stakeholders. It will result in stronger alignment between extension programs and local needs.

I encourage you to read the attached annual report from your county office to gain an understanding of how MU Extension has worked this past year to serve your community.

Your support of MU Extension and our efforts in your community is greatly appreciated. As always, I welcome your input on how the University of Missouri can better serve the people.

Sincerely,



Marshall Stewart, Ed.D. Director
Vice Chancellor for Extension

"University of Missouri Extension does not discriminate on the basis of race, national origin, sex, sexual orientation, religion, age, disability or status as a Vietnam era veteran in employment or programs."

A Message from the Council

Dear Friends of Extension:

Thank you for continuing to make University of Missouri Extension relevant and successful in providing educational programs for citizens of Dunklin County. This annual report outlines the success MU Extension has had in Dunklin County in 2016.

We are pleased to provide a brief overview of some of those successes. Dunklin County citizens helped determine our programming focus by defining local needs and priorities. Program emphasis areas include agriculture, business and economic development, strengthening families, enhancing health and nutrition, protecting the environment and youth development. Efforts to provide this programming include short courses, meetings, newsletters, telephone consultation and one-on-one interaction.

The success of University of Missouri Extension in Dunklin County depends upon the dedication and support of members of the Extension Council. The council assists staff with planning and implementing programs by communicating the interests and concerns of local citizens. Programming requires the best efforts of our partnerships in the state to maximize and apply our resources where the greatest impact can be made.

As we address the challenges of the future, we appreciate the continued support and hard work of the Dunklin County Commission. In addition, we salute the many volunteers, community leaders, organizations and businesses, extension council members and staff who have given of their time and talents. Together we look forward to enhancing the economic well-being and improving the lives of the citizens of Dunklin County in 2016.

Emily Madlin

Dunklin County Extension
Council Chair

Mike Milam

Dunklin County
County Program Director

Other Members

Linda Lesslie Cody Bader Sandy Self Sharon Montgomery
Chris Kaiser Keith Champlin Susan Moore Theresa Martinez
Lianne Long Hillary Burton Danny Ray Linda Lesslie

Dunklin County Staff and Financial Report

Dunklin County Extension Staff

Michael R. Milam – County Program Director and Agronomy Specialist

Kim Holsten – Office Manager

Lavonda Swindle – Nutrition Program Associate

Sharon Sutherland – Nutrition Program Associate

Other faculty serving Dunklin County

Sarah Denkler – Horticulture Specialist

Ashley Bales – Family Financial Education Specialist

Van Ayers – Agriculture and Rural Development Specialist

Mary Ingram – Human Development and Family Science Specialist

David Reinbott – Farm Management Specialist

Stephanie Milner – 4-H Youth Specialist

Linda Morgan - Nutrition/Health Specialist/Family Nutrition Educational Program Coordinator

Janet Kline – Southeast Regional Director

2016 Dunklin County Appropriations Budget

Income

County Appropriations \$ 37,000

Total Income \$ 37,000

Expenses

Personnel Salary \$ 20,797

Payroll Taxes 7,078

Travel 3,012

Phone 2,949

Supplies/Materials 2,456

Postage Meter Rental 324

Rent 6,000

Internet 400

Farm Family 650

Insurance 45

Fee Generation Distribution 54

Total Expenses \$ 44,265

Over Budget 7,265



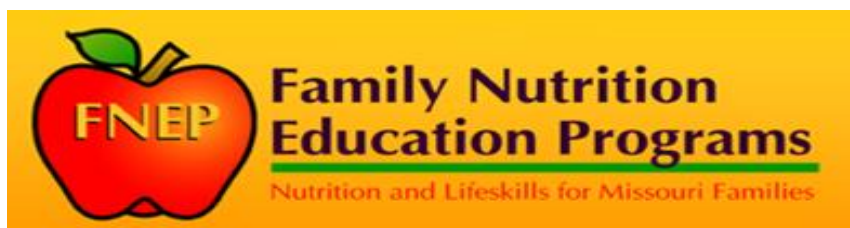
MU Extension is a unique funding partnership.

Extension funding is a three-way partnership of federal, state, and county government.

Federal and state money, through the University of Missouri System, pay professional staff salaries, training costs, computers, and communication equipment. County funds support the local office, secretarial and youth assistant salaries, staff mileage, and council expenses.

Did you know you could direct a donation to Dunklin County Extension as a gift to be used immediately or as an endowment contribution to support the county's efforts long term? Gifts are generally used within one to two years. Monies put into the endowment are left in the fund forever to earn interest, and the county extension office receives the earnings monthly - forever.

You can also direct your donation to a specific MU Extension program, such as your county's 4-H or Agronomist program.



Nutrition Program Associate
Sharon Sutherland



Nutrition Program Associate
Lavonda Swindle

University of Missouri Extension's Family Nutrition Program (FNP) reached 4007 participants. Of that number, 3882 were direct and 125 indirect nutrition education in Dunklin County during 2016. A significant percentage of these participants were low income. FNP provides information on nutrition, food safety, gardening, and physical activity for lifelong health and fitness by working with qualifying schools, community groups and agencies.

Nutrition education for youth 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.

The Family Nutrition Program (FNP) brought \$8,582,289 in federal funds to the state of Missouri. These funds were used to provide nutrition education to 951,652 food stamp recipients and food stamp eligible citizens of Missouri. During fiscal year 2016, there were 2,393 of these participants reside in Dunklin County.

Participants in FNP became more aware of nutrition, make healthier meal and snack choices, eat breakfast more often, are more willing to try new foods, increased 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.

Success stories for Dunklin County



Success Story by Sharon Sutherland:

I ran into a young woman that I had been teaching in Drug Court. She had a Can-Do recipe handout with her. She said that utilizing these simple recipes has saved greatly on her grocery bill. She also stated that the recipes help give her ideas in preparing a hot meal every evening for her children.

Success Story by Lavonda Swindle:

I have taught, "Eating from the Garden" this summer at the Community Garden with both children and adults. I had a mother and her 4-year old child come to the Community Garden to pick vegetables. The child was so excited to pick his own vegetable as we all walked along the garden together. We talked about the benefits of vegetable and ways she could cook them. They picked some that day and came back again many times this summer to pick and learn more about the garden and how to cook the vegetables when she got home. They were both very excited to have fresh vegetable to cook at home. She said she would like to raise a garden at her home next year. I encouraged her to do so and to come back and visit us next year.

It has been a successful year in Dunklin County for Family Nutrition Education Programs (FNEP).
If you need further information about the Family Nutrition Education program, please contact:



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Family Nutrition Education Program for Coordinator Southeast region
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Dunklin County Horticulture



The horticulture specialist provides answers to commercial and homeowner alike regarding ornamentals, soils, vegetables and fruit which help to improve soil, reduce pest pressure, increase harvest and improve the life of the plant.

Because of excessive moisture followed by extreme lack of water, commercial pecan growers on approximately 20 acres experienced issues with fuzzy pecans in 2016. I also helped a start-up commercial strawberry grower on approximately 2 acres. Dicamba drift was the biggest topic this year and I have educated homeowners and commercial growers on what to expect. The state is still working out how to handle this issue.

The major workshop in the county were provide for melon growers. This workshop provides education on diseases, fertility, weeds and insect pressures as well as legal issues related to growth of melons. In addition, I conducted pruning program. This workshop provides education on when and how to prune. Networks are strength at these workshops, which helps in quick communication throughout the growing season.

I continue to answer direct questions on tomato, pepper, zucchini, and melon, peach and pecan tree disease issues to help homeowners decide on the best method for control for those in Dunklin County.



Sarah Denkler
Associate Extension Professional & Horticulture Specialist for Southeast Region
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Dunklin County



Dunklin County community has 8 youths building life skills, engaging in science and connecting to community. Dunklin 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.

In addition, Dunklin County 4-H school enrichment programs are short-term educational experiences that supplement learning in the classroom; teachers or 4-H volunteers lead most. The most popular 4-H school program in Dunklin County is Ecology Day with 215 participants.

4-H youths are equipped with the knowledge, skills, attitudes and health for the 21st century workforce. Missouri 4-H members spend almost nine times more of their leisure time than their non-4-H peers engaged in projects anchored in science do. As a result, 4-H members are three times more likely to go into science-related careers than similar non-4-H peers are. Fostering career development is the fact that Missouri 4-H members are connect to college campuses and faculty. MU Extension 4-H connects 8,500 young people to University of Missouri campuses. Being on campus is a predictor of youth going on to higher education.

Missouri 4-H members, however, also learn to use these talents to engage in their communities. Young people in 4-H are engaged in twice as many leadership roles than their non-4-H peers. This provides them with the experience in problem solving to step up and lead in a complex, changing world.

Dunklin County 4-H special-interest programs include conferences, distance-learning programs, day camps and other educational activities, such as school-age care. They often reach youths with special needs, such as those living in-group homes or youths, who are physically or mentally challenging.



Stephanie Milner
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Pictures of South Dunklin County 4-H'er's At Delta Fair



South County 4-H at Delta Fair



James McGrew
3rd place Junior Swine Showmanship



Faith McGrew
2nd place Junior Swine Showmanship



Loretta Britton-McGrew
2nd place Senior Showmanship



Shaylah Walker
3rd place Swine Showmanship



Katie McClelland
Grand Champ Swine



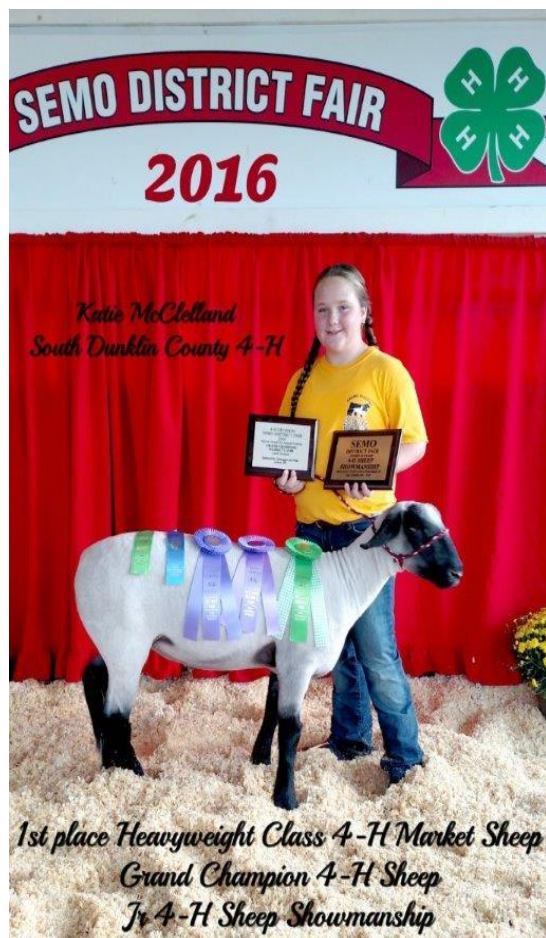
Shelbi Miller
Reserve Grand Champion Goat



Shelbi Miller
Grand Champion Goat



Katie McClelland
Grand Champion Sheep



Katie McClelland went to SEMO District Fair in Cape Girardeau, Missouri. She placed 1st in Heavyweight Class, Junior Sheep Showmanship, and Grand Champion Sheep. Most of all, she won 2016 EMO District Fair Herdsman Award. Dunklin County Extension is proud of all the 4-Her's. Keep up the good work!

Dunklin County Agriculture



Pesticide Applicator Training

The participants learned skills so that they can apply pesticides to protect humans and the environment. Because of the dicamba misuse, both the Missouri Department of Agriculture and EPA will make labeling changes. Because of this information, clients had a better understanding of IPM techniques necessary to improve potential yield, therefore improving profits and their lives. During this session non-biased, research based information was provided to clients in the assigned areas which included multiple aspects of row crop production.

Kennett Community Garden

Mike Milam consulted with community garden leaders on various issues involving the garden. Lavonda Swindle and Sharon Sutherland were involved in all aspects of the Kennett Community Garden. This includes planning, planting, harvesting and educational programming. In addition, there was a children's garden that was used to educate at-risk youth. The children's garden was funded entirely by donations.



Individual Consultations

A major portion of my job involves individual consultations with homeowners and crop producers. During these sessions non-biased, research based information was provided to clients in the assigned areas which included multiple aspects of home horticulture. Homeowners have many questions pertaining to lawn improvement, weed identification and control, fungal identification in their garden, tree repair and health, and insect identification and control. This information was provided via one on one, walk-ins, home visits, and phone calls. New technologies were incorporated into the learning process such as use of internet-based education. Because of this information, clients had a better understanding of the production techniques necessary to improve their home and garden, therefore improving their lives. I signed off on soil tests; several spray drift complaints, bed bugs, lawns, gardens, weed and insect id, and other questions. Crop consultations included commercial watermelon and cantaloupes, cotton, soybeans, corn, and wheat. Many of the melon complaints were related to pollination problems, bacterial fruit blotch, hollow heart, gummy stem blight and nutrient deficiency. Two tissue samples were sent to the Delta Regional Soils Lab at the Fisher Delta Research Center at Portageville. There were also several drift complaints. There are herbicide questions related to glyphosate resistant weeds. Five samples were sent to the Plant Diagnostic Lab in Columbia. Patty Hosack, director, was very responsive to the problems and had a very quick turnaround. There was a major problem with post-harvest disease in pumpkins. For a very large enterprise, pumpkins in several Mid-West states had rotting problems starting with the stems. We sent samples to the lab overnight and had an answer the next morning. This was weather related. The warm temperatures and heavy rainfall led to the Fusarium rot. Three nematode samples were sent to the Nematology Lab in Columbia to determine soybean cyst nematode race resistance so that producers will know which varieties have resistance.



High School Biology Presentations and Insect Collecting Field Day



The Biology II instructor at Kennett High School, Katie Porterfield, had contacted me. She requested that I speak to her class about insects and that we plan an insect collecting field day for her students at the Ben Cash Conservation Area. There were two Biology II classes this year. There were thirty-seven students enrolled in these classes. I presented information about where to collect insects and general information that would help them with their collections. During the class, I provided leaf litter with enough springtails for the entire class. I also brought in cotton blossoms that contained enough thrips for the entire class. I provided a number of other insect orders and species that the teacher could use for prizes when students answered questions during class. During the course of the next month, I assisted several students who had questions about identification.

The field trip this year was delayed due to excessive rainfall during August. Prior to the field day, I visited the area twice and scouted areas to find specific insects. I also found insects in cotton, soybean, and watermelon fields. This insect collecting field day has been a yearly program for high school biology students. This gives the high school students an opportunity to have hands-on collecting experiences and the identification of insects. The conservation area has aquatic, wooded, and vegetative areas, which will host a wide variety of insects. Rainfall events had affected several of the collecting sites, but we were able to find many of the insect orders that they needed. Each year students are shown where to collect insects in each of the vegetative, aquatic, and wooded habitats. I also bring in extra materials such as mushrooms, tree bark, and leaf litter to share these insects with the students. This year every student was able to get toad bugs, and doodlebugs, which are easy to find at this location. There were fifteen participants at the field day. The students learn about insect ecology, insect taxonomy, beneficial and harmful insects, and in the process will collect insects for their collections. Because of this annual program, students will improve their grades, have a greater interest in applied biology and will be happier and improve their lives. Since I have been doing this for over 20 years, I still run into students who remind me about their participation and success.

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participants at the field day. The students learn about insect ecology, insect taxonomy, beneficial and harmful insects, and in the process will collect insects for their collections. Because of this annual program, students will improve their grades, have a greater interest in applied biology and will be happier and improve their lives. Since I have been doing this for over 20 years, I still run into students who remind me about their participation and success.

University of Guelph Student Tour

I met a group of students from the University of Guelph in Ontario, Canada. This 14-day tour is part of their classwork, CROP*4260 Crop Science Field Trip, which is better known as the Midwest Tour. I gave a presentation on cotton production and had handouts to support this presentation. I showed the students how the cotton plants grow and develop and how to map the plant. I discussed the bloom and fruit set patterns and how producers can use this information to make better yields. I also showed them a final plant map that showed that the first position fruit were more valuable and contributed to higher yield. I discussed plant mapping is used by producers and consultants to keep the crop on track. The producer showed them the John Deere Picker with the module builder and planting equipment. I answered their questions. I had handouts for the students. There were 47 students, two professors, and the bus driver. Since the presentation, I have put additional resources in my file to address some of the questions next year. Because of this program, the University of Guelph students and faculty have a greater understanding of cotton production and the cotton industry. They also learned the role of extension agronomists with producers and industry representatives. They also learned about the problems that producers faced in the drought and excess rainfall. These students learned about cotton production, the species grown in the U.S. They learned about the U.S. export market and how the government program has phased out direct subsidies and have replaced it with crop insurance. As they mentioned in their letter and student blog, this very valuable learning experience will improve the quality of their lives.

Kudzu Bug



Mike Milam found kudzu bugs on kudzu in northern Dunklin County. This is the first report of this invasive pest in SE Missouri. Kudzu bug, once established in an area, can migrate to soybean fields with areas located nearest to kudzu being highest risk. In Tennessee, this migration has been in July, preferentially but not exclusive to flowering soybeans. Kudzu bug is a sap feeder, not a pod feeder with a threshold of 25 nymphs per (immature kudzu bugs) per 25 sweeps. The kudzu bug migration into soybean usually occurs a year after they are found in kudzu. This is very useful information for producers and consultants so they can scout for them next year.



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Dunklin County Missouri Century Farms



If your farm has been in your family since Dec. 31, 1917, you can apply to have it recognized as a Missouri Century Farm.

To qualify, farms must meet the following guidelines. The same family must have owned the farm for 100 consecutive years. The line of ownership from the original settler or buyer may be through children, grandchildren, siblings, and nephews or nieces, including through marriage or adoption. The farm must be at least 40 acres of the original land acquisition and make a financial contribution to the overall farm income.

“University of Missouri Vice Chancellor for Extension and Engagement Marshall Stewart said, “Family farms have been among our most vital partners since the founding of extension more than 100 years ago. The century farm program is one way we express our gratitude to those who have contributed so much to Missouri agriculture.”

In Dunklin County alone there have been over 2000 farm families recognized with two more this year, the Jones and Burcham-Long Farms. In 2008, the Missouri Farm Bureau joined MU Extension and the MU College of Agriculture, Food and Natural Resources as a program sponsor.

“Missouri Farm Bureau is a proud partner in the recognition of century farms,” said Blake Hurst, president. “We applaud the hard-working farm families that have kept us fed and clothed for generations. They represent an important part of our heritage and laid a foundation for the bounty Americans enjoy every day.”

Applicants certified as owners of a 2017 Missouri Century Farm will be recognized by the local MU Extension center in the county where the farm is located. Applicants are presented with a sign and a certificate.

Since Missouri began the program in 1976, more than 8,000 century farms have been recognized.

For applications received by May 1, a \$55 fee covers the cost of a certificate, farm sign and booklet for approved applicants. If the application is received between May 1 and May 15, the cost is \$65. Applications must be postmarked by May 15, 2017, to be considered.

For application forms and information, call Extension Publications toll-free at 1-800-292-0969, contact your local MU Extension office, or visit the program website at <http://extension.missouri.edu/centuryfarm>.



Larry Jones Farm



Burcham and Long Farm

Dunklin County Hispanic Outreach

The Dunklin County University of Missouri Extension Council has been proactive in working with organizations that provide resources to our migrant and seasonal workers. In the past, we sponsored Conversational Spanish classes. The first class was started because agricultural businessmen, both farmers and cotton ginners, requested the class. We had one for educators, law enforcement, and two general classes. We hired a retired Spanish teacher to teach the classes. He wrote the material for the handouts. Since then our council has expressed an interest in getting English as a Second language classes started. St. Cecilia's Catholic Church in Kennett at one time had the classes but all of the people who helped are no longer in the area. This will continue to be a council objective.

We work closely with the United Migrant Opportunity Services and the Alliance for Farmworker Concerns. Mike Milam is an Alianzas Ambassador and supporter of migrant and seasonal workers. He meets monthly with a Hispanic advocate to discuss programming.



Continuing Education Programs

Office of Continuing Medical Education and Physician Lifelong Learning (CME/PLL)

CME/PLL serves both MU Extension and the MU School of Medicine by educating physicians and other health care professionals and enhancing the standard of health care to improve the health of the people of Missouri and beyond through health education, wellness promotion and health care quality improvement/performance improvement initiatives. Additionally, CME/PLL facilitates and manages health care quality improvement projects for the University of Missouri Health Care system and the MU School of Medicine Springfield clinical campus. In FY 2016, CME/PLL offered 1,879 noncredit programs, courses and educational activities with 31,779 participants. <http://medicine.missouri.edu/cme/about>

Fire and Rescue Training Institute (MU FRTI)

MU Extension's Fire and Rescue Training Institute (MU FRTI) provides comprehensive continuing professional education and training to Missouri's fire service and emergency response personnel. The institute has a direct impact on the well-being and protection of Missouri's 29,000 firefighters and the 6 million citizens they serve. Courses prepare firefighters for medical emergencies, hazardous materials response and disaster preparedness and mitigation, as well as fires. In FY2016, MU FRTI trained firefighters representing all 114 Missouri counties for a total enrollment of 13,828 fire and emergency responders. Student enrollment numbers rose by 6 percent in FY 2016 as compared to the previous fiscal year. MU FRTI served 1,360 fire departments, organizations or agencies in FY 2016. <http://www.mufrti.org>

Law Enforcement Training Institute (LETI)

LETI brings state-of-the-art, certified, professional training to law enforcement officers and continuing professional education to a wide spectrum of other criminal justice and public safety professionals. For more than 60 years, the institute has been the state's leader in providing vital training and education services to Missouri's 17,000 in-service personnel and police recruits annually. Working with national, state and local agencies from 31 states, LETI provided basic and advanced animal cruelty investigations training. LETI also conducted 17 armed intruder/personal safety presentations to extension personnel and council members. LETI led several presentations to civic organizations, churches and businesses throughout the state on a variety of topics, including personal safety and armed intruder response. <http://leti.missouri.edu>

MU Conference Office

The MU Conference Office provides high quality, professional, full-service meeting management for a variety of noncredit educational programs, such as conferences, workshops, seminars and symposia. Whether a meeting is hosted on campus, in out-state Missouri or anywhere in the world, the office's professional staff provides assistance to create the best learning environment for participants. In FY 2016, 12,215 Missourians registered to attend MU Extension conferences for teacher education in math, science and writing; crop management, and agricultural lending, as well as statewide youth leadership programs. — FCCLA and 4-H. <http://muconf.missouri.edu/>

MU Nursing Outreach

Keeping Missouri nurses up to date with the knowledge and skills they need to effectively provide care and fully participate in the state's health care efforts is a primary goal for Nursing Outreach. In FY 2016, Nursing Outreach helped 2,094 health care professionals participate in its programs and reached another 881 nurses through co-sponsored multidisciplinary programs. Nursing Outreach serves a predominantly rural health care audience with high-quality, affordable continuing education programs using face-to-face, web-based and online delivery methods. A full 92 percent of Nursing Outreach's Missouri participants reside outside the metropolitan St. Louis and Kansas City areas. <http://nursingoutreach.missouri.edu/>

Osher Lifelong Learning Institute (OLLI)

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

Veterinary Medical Extension and Continuing Education (VMECE)

Veterinary Medical Extension and Continuing Education (VMECE) focuses on issues that have widespread impact on Missouri veterinarians and livestock owners. Factors such as disease risks, rising input costs and increasing regulations all affects the livelihood of farming operations. The primary goal of VMECE is to provide up-to-date information and consultation to veterinarians and livestock owners so they are better prepared to address these challenges. For FY2016, VMECE provided continuing education for veterinarians seeking continuing education credit to renew their veterinary licenses. Team members also presented information about production-related topics or animal disease at more than 70 meetings across the state. <http://cvm.missouri.edu/continuing-education.htm>

Missouri Training Institute (MTI)

The Missouri Training Institute provides continuing education, custom-designed training programs and consulting services for business and industry, public and nonprofit organizations and educational institutions. Training programs include subjects such as human resource management, supervision, management, leadership, team building and other business-related topics. The institute's consulting services include curriculum design, human resources, strategic planning, board development and facilitating meetings and retreats. In FY 2016, 11,997 people enrolled in the institute's 421 programs. <http://mti.missouri.edu>

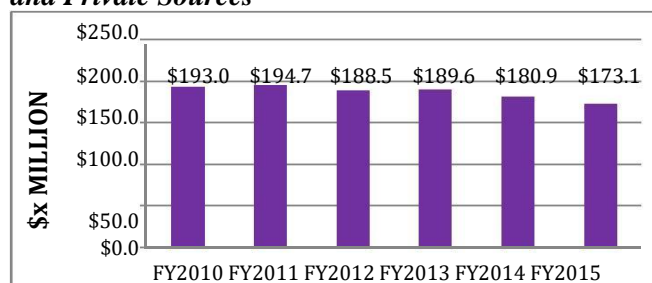
Labor Education

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



2017 University of Missouri System Dunklin County, Missouri

UM Research Expenditures Funded by Federal and Private Sources



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

Economic Development Highlights

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

patent applications in 2016. Electronic Services to the State in 2016

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

Financial Aid Provided to UM Students in 2016

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

Supporting the University of Missouri is an investment in the future of Missouri.

The university advances Missouri citizens and communities through its mission of teaching, research, public service, and economic development across our four campuses and University of Missouri Extension.

Prepared in December 2016, based on the best available data.

Data Sources include: Missouri Office of Administration • UM IR • Office of Social and Economic Data Analysis (OSED) • Center for Applied Research and Environmental Systems (CARES) • MU • UMKC • Missouri S&T • UMSL • UM System • UM Health Care • MU Extension • US Census Bureau • US Dept. of Health and Human Services • National Science Foundation