

UNIVERSITY OF MISSOURI



Extension

**LINN COUNTY
ANNUAL REPORT
2006**

**LINN COUNTY EXTENSION
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Extension's Program Guidance Comes from You

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

County residents decide the direction of extension's educational programming. Current emphasis areas in Linn County focus on Forage Production Systems, Management Intensive Grazing, Master Gardeners, Missouri Crop Management, Private Pesticide Applicator Training and 4-H/Youth Development

The mission of University of Missouri Extension, a partnership of the University of Missouri campuses, Lincoln University, the people of Missouri through county extension councils, and the Cooperative State Research, Education and Extension Service of the U.S. Department of Agriculture, is to: "serve Missouri by extending the unbiased research-based knowledge and problem-solving resources of the University of Missouri and Lincoln University to focus on high-priority needs of people throughout the state." Both the University of Missouri and Lincoln are Missouri's two land-grant universities, charged by federal acts of Congress to deliver extension programs.

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

Dear Members of the County Commission and Community:

Thank you! Your financial support to our land-grant university partnership makes it possible for University of Missouri Extension to deliver high-quality educational programs where Missourians live, work and experience quality of life.

More than 1 million Missourians annually turn to MU Extension for help in improving businesses, farms and communities and strengthening their families. Your partnership with the U.S. Department of Agriculture, the State of Missouri, and local organizations and businesses enhances the state's economy and brings unique opportunities to families and individuals.

In fact, MU Extension partners with more than 100 entities across the state. Those partnerships enable us to extend our educational reach without duplicating services. In FY2007, MU Extension will leverage \$39 million in federal and state funding resources into more than \$81 million in educational programming to serve Missourians.

In 2006, dollars allocated by county commissions to support extension at the local level amounted to 17 percent of the total dollars for extension funding statewide. These local dollars were leveraged to provide more programs to more people. Additionally, our local partners across the state (county commissioners and councils) provided significant in-kind contributions in the forms of office space and meeting space. Grants, fees and contract dollars account for almost 23 percent of extension funding. Combined with state and federal funds, every local tax dollar is matched with an average return of \$10.37. We use these funds very efficiently. In FY2007, just four percent of the budget is going toward administration, compared with 12 percent for most non-profits and government agencies.

The return on your investment in MU Extension for your community is great:

- Businesses become and remain profitable -- creating and retaining jobs.
- Improved agricultural yields add to producers' bottom line, and citizens enjoy a safer environment. Towns and cities use research-based resources to make better decisions about their future.
- Young people are more likely to stay in school and increase their lifetime earnings.
- Professionals and other workers stay on the cutting edge of career requirements through continuing education. Adults and young people live healthier lifestyles and suffer fewer medical costs.

Your local extension faculty and staff, campus faculty, county extension council members, 4-H volunteers, Master Gardeners and other program supporters look forward to a continued fruitful partnership in 2007. If you have suggestions for how University of Missouri Extension can better serve your needs, please contact me or your local extension center.

Sincerely,

Michael D. Ouart
Vice Provost and Director

Introduction of University Extension

University Extension is the statewide educational outreach of the University of Missouri System, which has campuses in Columbia, Kansas City, Rolla, and St. Louis, and of Lincoln University in Jefferson City. Extension specialists on the campuses and in 114 counties and the City of St. Louis provide educational programs to help citizens apply university research knowledge to solve individual and community problems.

One and a half million Missourians each year, urban and rural, benefit from the educational programs and research information provided by University Extension.

Extension programs center around four major emphases:

Agricultural Profitability Community Resource Development Family Strengths and Youth Development Lifelong Education and Professional Development

Through conferences, short courses, workshops, town meetings, one-to-one consultations, printed and videotaped materials, and the mass media, University Extension delivers the knowledge and resource base of Missouri's land grant universities to citizens.

University Extension specialists work in collaboration with personnel from state agencies and local organizations to draw together whatever resources may be needed – whether from a university campus or other source – to help citizens accomplish their goals.

Throughout Missouri, extension specialists put into practice the University Extension slogan.

“Knowledge Working for Missourians”

HISTORY, MISSION AND FOCUS

The University of Missouri is the oldest university west of the Mississippi River, and for 165 years has been helping Missouri citizens use knowledge to solve problems and lead more productive lives.

The University has treated education as a lifelong process. Extension and continuing education activities of the University have operated in tandem with its research and teaching functions. The Morrill Act of 1862, which established land-grant colleges, and the Smith-Lever Act of 1914, which instituted the Cooperative Extension Service, is the foundations for the University's extension mission. The Morrill Act of 1890 also established Lincoln University as a land-grant institution. Together, the universities are helping people turn knowledge into know-how by applying research and academic finds to everyday problems.

Education is the key to improving the quality of life for all citizens, and University Extension is committed to extending the entire resources of the University of Missouri and Lincoln University to accomplish that goal.

MISSION

The mission of University Extension is to extend the educational resources and knowledge base of the University of Missouri and Lincoln University to the people of Missouri.

FOCUS

University Extension has focused its program efforts in four major areas of emphasis: increasing the profitability of agriculture, strengthening families, expanding economic development, and enhancing lifelong education.1). The purpose of the agriculture program is to provide research based information and to make sound, economically responsible recommendations that help individuals, families, groups and agribusiness firms apply this knowledge.

Programming done by Dr. Leon McIntyre For 2006

Agriculture, Food and Natural Resources

1). The purpose of the agriculture program is to provide research based information and to make sound, economically responsible recommendations that help individuals, families, groups and agribusiness firms apply this knowledge.

2). Dr. Leon McIntyre's programming areas include: soil testing, soil test interpretation, lime and fertilizer recommendations, micro-nutrient testing and recommendations, weed-insect-disease identification and control, environment related crop problems, crop scouting, current crop insect and diseases potential updates, forage production, forage variety performance and adaptability, forage quality and testing, pasture renovation and management, certification and recertification for the private pesticide applicator, hybrid corn and soybean variety selection, organic crop and vegetable production, home horticulture and Master Gardener training.

Impact 2006

Program Title: Private Pesticide Application License Training

Participants learn: "Principles of Pest Control"; "Pesticides and their Effect on the Environment"; "The Pesticide Label: Safe Use of Pesticides"; "Harmful Effects and Emergency Response to Spills"; "Pesticide Storage and Disposal", "Pesticide Equipment Application Calibration"; "Pesticide Laws and Regulations"; "Endangered Species Protection" and "Licensed Pesticide Applicators Record Keeping." This pesticide license is for "Restricted Use" pesticide application and it is in effect for 5 years.

Pesticide applicators learn to use pesticides only when needed (Integrated Pest Management), to use pesticides safely and not to harm themselves or the environment, to keep a record of every pesticide used and not use pesticides where endangered species are present.

In 2006, approximately 12 people recertified or certified for their Private Pesticide Applicators License. On February 13, 2006, Brookfield Area Career Center, a scheduled P.A.T. training was held. Year 2006 was a low number, 2007 has 74 people to recertify. For the counties I programmed in, over 150 producers take this training to recertify each year. Many producers have gone on to receive their Commercial Pesticide Applicators License.

Program Title: Agroforestry Training For Professionals

January 10-11, 2006 was training for Agroforestry Programming at Columbia, MO at the Anheiser-Busch Natural Resources Building. The travel and classroom time for the two days was 24 hours. Agroforestry is the blending of growing valuable forestry (Walnut, Pecan, Oak) with pasture or row crops.

Program Title: Eighty-eighth Missouri Crop Improvement Meeting

I was a speaker at this annual Missouri Crop Improvement Meeting at the Holiday Inn Select, Columbia, MO. The subject of my program was "Forage Variety Comparisons for Missouri". Over 200 people attended this crop improvement meeting which represents most of the states in the Midwest.

Program Title: Crop Pest Update and Farmers Forum

February 28, 2006 at the Brookfield Area Career Center, this Crop Pest Update and Farmers Forum Program was held. Dr. Leon McIntyre used a PowerPoint program to present a Corn and Soybean Insect Update and a Soybean Rust Update. Corn insect pests discussed were : seed corn maggot, wireworms, white grubs, corn flea beetles, grape colaspis, black cutworm, Southern corn leaf beetle, stalk borer, European corn borer, Western and Northern rootworms, corn leaf aphid, and Western bean cutworm. Soybean insect pests discussed were: seed corn maggot, bean leaf beetles, soybean aphids, and wireworms. Soybean rust was the only disease of crops covered because it is the latest and most recent threat to soybean production. Soybean rust was confirmed in the botheel of Missouri in 2005. Insecticides labeled for corn and soybean insect pest were covered in hand out materials. Soybean seed treatments to control five insects were listed in a hand out. Twenty three people attended, 5 women and 18 men. Eight farmers were on the Farmers Forum panel. The eight farmers that participated in the forum were Paul Benson, Ronald Bowyer, Bill Brockman, Richard Coplin, Gary Kitchen, Mike Spencer, Rex Wood and David Zell. Farmers were ask corn and soybean questions one at a time and allowed ample time to respond. It was an excellent program with a very good evaluation.

**Program Title: Consultation and Information for Clientele
(Telephone, Email, an mailed information)**

Over 429 phone calls, and emails were fielded from our clientele (farmers, bankers, agribusinesses, teachers, FFA advisors, real estate brokers, etc). About 25% of these people were mailed MU Guides and other information they requested or were given the MU campus internet address on the subject, such as AGEBB, the Agricultural Electronic Bulletin Board.

Program Title: Forage Grass and Legume Variety Trials

A yield trial at Forage Systems Research Center was planted in 2002 and harvested in 2003 and 2004. Dr. McIntyre solicited seed from 12 seed companies to be tested.

All livestock producers of grazing animals (cattle, sheep, goats, elk, etc.) were the target audience.

Data has been analyzed and published in Ag Beat and other University Extension Newsletters for producers to learn how each variety yields and persists and their potential use in North Missouri.

Data readers will use this grass variety performance information to select adapted varieties when they seed new pastures or renovate a pasture.

This research will give producers variety names and seed sources that can be used to increase their profitability. This is new information that producers had no knowledge of before and in an area (forage production) where there is little new useful information.

Program Title: Ag Beat Newsletters

Ag Beat is a bimonthly newsletter with the latest news, research and programming events by the University Extension specialists of Linn, Sullivan, Putnam and Adair counties. Each issue features internet addresses, publications and MU Guides pertaining to the subject matter.

This newsletter reaches over 6,000 people, 2000 households (425 in Linn County). Ag Beat is delivered to people of all vocations, such as grain and livestock producers, conventional and organic producers, gardeners, truck gardeners, teachers, bankers, agri-businesses and retirees. Readers learn about horticulture, crop and forage production, livestock production and agri-business subjects.

Reader's lives are changed by the addition of knowledge, labor and money saving ideas that are fairly simple to implement. "I read the entire newsletter from cover to cover, keep it coming, it's very good" is a comment that is heard often.

Newsletter input is provided by: Jennifer Schutter (Horticulture), Darla Campbell (Agri-Business), Joe Koenen (Agri-Business), Chris Zumbrunnen (Livestock), and Dr. McIntyre (Agronomy).

Agronomy Notes, subjects included: March/April 2006 “Frost Seeding”, “Forage Species Varieties: Adaptation and Characteristic” and “Grass Variety Adaptation”. May/June “Alfalfa Weevil Problem in 2006”; “High Numbers of Armyworm Moths”, and “Warm Season Annual Forages”. September/October “Stockpiling For Winter Pasture”, and “New Pasture Herbicides”. November/December “Linn County Extension Corn Yield Trial Plot for 2006”; “Stabilizing Urea Nitrogen Applications”; “Soybean Cyst Nematode”, and a “Soybean Rust Update”.

Program Title: Weekly Radio Programs

A 4-5 minute radio broadcast on agronomic, horticulture, agricultural news, Extension programming and human-interest stories. Broadcast spots are on KMZU, “The Farm” FM 100.7, Carrollton, MO. Saturday, noon hour and KRES, FM 104.7, Moberly, MO at 6:45 a.m. Saturday. There were about 104 broadcasts in 2006. These broadcasts reach listeners in 8 or more of the 16 counties in the Northeast Region of Extension.

Radio broadcast information is used by listeners to improve their lives, income, avoid unnecessary loss, and use pesticides safely. Useful knowledge is gained by listeners about most agronomic and horticultural subjects.

Broadcast subjects for 2006 were: January 7th-Herbicided and Biotech News, January 14th-Trangenic Bt Corn Hybrids (YieldGard, Herculex), January 21st-New Herbicide for Pasture and Hay (Milestone), January 28th-Recommended Blackberry Cultivars, February 4th-Mushroom Production School and Pest Management Update, February 11th-Pesticided Applicator Training, February 18th-Crop Pest Update/Farmers Forum Program, February 25th-Pest Update/Farmers Forum Results, March 4th-Master Gardener Training, March 11th-Farmers Forum on Corn Production Practices, March 18th-Farmers Forum on Soybean Production Practices, March 25th-New Vegetable Varieties for 2006, April 1st-Start Your Lawn Weed Control Now, March 8th-Micronutrient Application and Soil Test Recommendations, April 15th-Micronutrients for Crops, April 22nd-Woody Ornamental Selection and Maintenance and a Freeze Brand Clinic, April 29th-Pest Update Alfalfa Weevil and Pea Aphids and the upcoming horticulture program: Woody Ornamental Selection and Maintenance, May 6th-Pest Update, May 13th-Poison Ivy Control, May 20th-Crop Pest Update and New Pasture Herbicide (Milestone), May 27th-Bean Leaf Beetles in Soybeans and Soybean Rust Sentinel Plots, June 3rd-Post-emergent Herbicides for Corn, June 10th-Insect Update and Bean Leaf Beetles, June 17th-Posion Ivy Control, June 24th-Control of Volunteer Roundup Ready Corn in Roundup Ready Soybeans, July 1st Potato Leaf Hopper Numbers High in Alfalfa, July 8th-Be Cautious About soil Test Recommendations, July 15th-Insect Pest Update, July 22nd-Potatoe Leafhoppers are Still in Alfalfa, August 5th-Chemical Companies That Continue to Buy Up Seed Companies, August 12th-New Blackberry Varieties for Missouri, August 19th-New Blackberry Cultivars For All of Missouri, August 26th-Stockpiling For Winter Pasture, September 2nd-Scouting Soybeans For Disease and Late Season Soybean Pod Feeding Insects, September 9th-Pasture Weed Control, September 16th-Jimmy Crickets, September 23rd-Controlling Crickets and Other House Invading Insects, September 30th-Fall Lawn Weed Control, October 7th-Fall Weed Control Chemicals For Your Lawn, October 7th-Fall Weed Control Chemicals For Your Lawn, October 14th-Be Cautious About Micronutrient Soil Test Recommendations, October 21st-Soybean Rust Update and Beef/Forage Meeting Series, October 28th-Latest Soybean Rust Update, November 4th-SARE (Sustainable Agricultural Research Experiment) Grant Applications, November 10th-Soybean Cyst Nematodes, November 25th-Missouri Crop Performance Reports for Corn, Soybeans and Grain Sorghum, December 2nd-Fall is The Best Time To Establish Walnut and Pecan Trees From Nuts, December 9th-Ice Melting Chemicals For Walks, Driveways and Roads, December 16th-2007 Commercial Pesticide Applicators Recertification and Certification Training Dates and Locations.

Program Title: Master Gardener Training Program

A Master Gardener Training Program was planned and started March 6th-May 22nd, 2006. This Master Gardener Training Program was at Kirksville TCRC and the Brookfield Area Career Center by ITV. Each class ran simultaneously 6:00 - 9:30 p.m. The Brookfield 2006 Master Gardener Training classes were stopped after three sessions because only two people signed up and attended. The Master Gardener Programs I presented were March 6th, “Soils, Soil Fertility, Fertilizers, Soil Amendments and Micronutrients”; April 17th “Plant Propagation” and May 1, “Insect Pests”.

Woody Ornamentals Selection and Maintenance Seminar was held May 2, 2006. Jon Mendenhall, Mendenhall Florist and Nursery, presented his two hour seminar which covered all woody ornamental and tree varieties adapted and those that are not adapted to Missouri. Jon Mendenhall is the only person who covers all the varieties and cultivars of trees and woody ornamentals while telling the attendees what is adapted and what will grow

and flourish in Missouri and what varieties/cultivars to avoid because of disease, insect problems, soft wood, short life, and poor winter hardiness. Eleven people attended, five ladies and six men. Excellent response and evaluation from the attendees.

Program Title: Farmers Market Workshop

Farmers Market Workshop March 9, 2006 Kirksville TCRC I was the program speaker for a Farmers Market Workshop. My subject was “Weed Identification, Herbicides, Sweet Corn Types, Sweet Corn Pests and Their Control, and Sprayer Calibration”. This was a series of meetings sponsored by a PPP (Plant Protection Program) Grant through IPM (Integrated Pest Management) directed by MU Entomologist Dr. Wayne Bailey.

July 11, 2006 I attended the Missouri Vegetable Growers Association Farm tour at Roanoke, MO. designed by Lewis Jett MU Vegetable Specialist. This farm tour featured the cultural practices used by a farmer to grow vegetables for farmers markets. High tunnel growing of tomatoes and melons was also demonstrated.

Program Title: Management Intensive Grazing Schools

These schools are 7.5 hours of instruction on Management Intensive Grazing with 10 subjects covered plus a hands on field exercise and farm tour. Producers are required to attend this training to qualify for DSP3 cost-share program offered by the NRCS (Natural Resource Conservation Service).

Tim Clapp (NRCS Macon) and Leon McIntyre (Extension Agronomist) are the two coordinators for MIG schools in the Northeast Region of Extension. These MIG schools are set up to give producers the training they need for cost share who cannot attend the 3 day school at F.S.R.C.. These MIG schools (1.5 days) are set up for Friday nights and all day Saturday to accommodate the producers who have off-farm jobs and work Monday-Friday.

All grazing livestock producers in Northeast Missouri who want to learn the complete background on Management Intensive Grazing are the audience. Participants learned the advantages, economics, equipment needs, livestock handling, pasture fertilization, variety selection and fencing techniques that can be used in MIG.

Participants were equipped with the knowledge, economics and hands-on experience of how they can set up a MIG system to fit their needs and qualify for cost-share programs at the NRCS.

March 31-April 1, 2006, Management Intensive Grazing School at Lake Nehai, Missouri , just out of Linn County. Seventeen people completed the school 14 men and 3 women. My program subjects were : “Basic Forage Growth Management”, “Adaptive Forage Varieties”, “Stockpiling for Winter Pasture”, and on the farm tour “Identifying Pasture Plants and Weeds”, and “Soil Testing”.

May 5-6, 2006 Adair County Extension Annex Building, Kirksville, Missouri. Twenty-two people completed the school, 16 men and 6 women. The program subjects I presented were: “Forage Growth and Management”, “Managing Fescue and Adapted Forage”, and “Stockpiling for Winter Pasture”. During the “Farm Tour and Field Exercise” my part was “Evaluating Pasture Plants and Weeds”.

August 25-26, 2006 Management Intensive Grazing School at the Comfort Inn, Canton, Missouri. Thirty-seven people completed the school 29 men and 8 women. The subjects I presented at the school were: “Managing Fescue and Adapted Forages” and “Stockpiling for Winter Pasture”. On the “Farm Tour and Field Exercise” I presented “Identifying Pasture Plants and Weeds”, and the “Soil Testing” portion. For the MIG School Evaluation, I received 10-Excellent, 18-Good and 1-Fair for the “Managing Fescue and Adapted Forages” and 8-Excellent, 20-Good and 1-Fair for the “Stockpiling for Winter Pasture”.

Program Title: 4-H Youth Development Programs

March 26, 2006 at the Linn County 4-H Council I presented the program “Safe and Proper Use of Pesticides”. Twenty-five people attended, 16 women and girls and 9 men and boys.

4-H Judge on July 17, 2006. Judged Horticulture, Gardening and Crops projects for 4-H Clubs in Linn and Livingston Counties. For these projects, 25 4-H youths brought exhibits 15 girls and 10 boys. This was a five hour program with blue, red, or white ribbons being awarded plus the selection of those youth’s with projects going to the Missouri State Fair.

March 24, 2006 I was a presenter at the Annual Brookfield R-III Career Fair at the High School. Tanya Montgomery was the coordinator. My subject was “What Education Do I Need For a Career in the University of Missouri Extension”.



October 11, 2006 I presented the program “Plant Biotechnology Today” to Jeanne Harding's Middle School class called the “Set Sail Class” at Queen City, MO. Twelve students were present 6 girls and 6 boys. There were numerous questions. I served them some blue corn chips, a new “native” corn chip now on the market.

April 5, 2006 I presented the “Fescue Toxicosis” PowerPoint to the Brookfield FFA during a class session in the morning. This PowerPoint covers the endophyte effects on cattle performance, lower average daily gain, lower conception rates, lower milk production, rough hair coat, fescue foot, and elevated body temperature. The PowerPoint also covers the new “friendly endophyte” fescues and their advantages. There were 12 students in this class. Several questions were asked about how to replace the toxic fescue with the “friendly endophyte” non-toxic fescue.

Program Title: Soil Tests

Soil tests are signed and comments made when lime or another nutrient is needed to bring crops, pasture or hay fields up to their production potential. There were over 165 soil tests signed and I wrote agronomic comments on more than 70% of them. Furthermore, I get requests to convert other soil test laboratory results to the University of Missouri standards. This service takes much more time and then we have to print out the results and send them to the clientele.

Program Title: 4-H Recognition Sunday (4-H/Youth Development)

October 15, 2006 I attended the Linn County 4-H Recognition Sunday. All the recognition and awards to 4-H members and 4-H leaders are presented on this special day. Pat Wood, Youth Program Assistant conducted the program. I represented the Linn County Extension Council and presented an award for the Outstanding Club Leader of the Year.

Program Title: Plan of Work for 2007-2011

The 2007-2011 Plan of Work started with an ITV staff meeting on February 21, 2006 at Kirksville TCRC. On March 28th a Plan of Work Extension Council meeting was held with Nancy Flood (Family Financial Education Specialist, Putnam County), Joe Koenen (Agri-Business Specialist, Putnam County), Chris Zumbunnen (Livestock Specialist, Sullivan County), and Pat Wood (Youth Program Assistant, Linn County) and Dr. Leon McIntyre (Agronomist Specialist, Linn County) to help in this process. The Plan of Work 2007-2011 after two more Extension Council meetings was finalized. One hundred hours of work was spent in this plan of work or more. This 2007-2011 Plan of Work is the best and most comprehensive of the plans of work I have experienced!

Program Title: 2006 Crop Injury Diagnostic Clinic July 25-26, 2006

I attended this clinic at the UMC Bradford Research Farm, Columbia, MO. The sessions I attended were: “Genetic Engineering and Biotechnology”, “Nitrogen Management”, “Field Crop Insects”, “Field Crop Diseases”, “Herbicide Injury”, and “Forage Preservation”. This clinic is an excellent means of annual agronomic research and information update.

Program Title: 2006 Crop Management Conference December 5-6, 2006

This conference is a must for agronomists with its current agronomy research and pest potential for Missouri. I attended these sessions: “Weed, Insect and Disease Updates for 2007”, “Glyphosate-Resistant Weeds and The Economics Behind Resistance Management”, “Conservation Tillage Effects on Soil Water Quality”, “No-Till Crop Management”, “Breaking the Disease Cycle: Managing Corn Diseases”, “Designing Crop/Animal Systems to Utilize Wet Distillers Grains”, “Potential Soybean Insect Pests”, “Hands on Weed Identification Training”, “Summer Pasture Options” and “Nutrient and Pest Management: Considerations in Conservation Planning”.

Program Title: Beef/Forage Series Meeting

Five Beef/Forage Production series meetings were held in Linn, Macon, Putnam, Randolph, and Sullivan Counties in the Northeast Extension Region. The sites and locations were: October 16th-Putnam County; October 19th-Sullivan County; October 24th-Linn County; October 26th-Macon County; and October 30th-Randolph County. Twenty nine producers attended the meetings. Subjects presented at the meeting were: “Getting More Bang for Your Fertilizer and Chemical Dollars” by Leon McIntyre (Agronomy Specialist), “The Beef Cattle Business-What Does the Future Hold” by Joe Koenen (Agricultural Businesses Specialist); and “By-Product Feeds in Beef Cattle Rations” by Chris Zumbrunnen (Livestock Specialist). The majority of farmers in North Missouri produce beef cattle and forage. Increasing cattle and forage production costs coupled with lower cattle prices resulted in the need for an update series for producers in these counties.

Program Title: Linn County Extension Corn Yield Plot-2006

Linn County has an annual Extension Corn Yield Plot. This plot was replicated 2x, meaning each hybrid was in the plot 2 times at random for statistical analysis and repeatable data. Each plot consisted of 4, 30-inch rows over 600 feet long. Gary Kitchen was the farmer cooperater who provided the location, equipment, time and labor to plant and harvest these along with Joe Kitchen, Todd Hansen, Trevor Swisegood and Leon McIntyre. Plots were planted April 14, 2006 and harvested September 20, 2006. Yields were as follows for 13 hybrids:

Burrus 7945	230.92	Stone 7N412RR	219.52
Burrus 6705	217.95	Stone 8K339	217.90
LG 2589	215.06	Tayler 955RR/Bt	212.68
Wyffels 8607	209.60	LG 2540	208.50
Wyffels 8721	208.15	Asgrow 715RR	207.31
Stone 8R130RR	206.43	Wyffels 7637	202.54
Taylor 965 Bt/RR	196.18 bu/acre		

This was an excellent yield trial, all the hybrids had the Roundup Ready trait, and the plot average was over 200 bu/acre. This kind of local data can give farmers an excellent source of information on hybrid corn performance.

Program Title: 2006 Agronomy Teleconferences

From March to July of 2006, UMC Agronomy Department Extension Specialists and the Regional Agronomy Specialists have a weekly teleconference each Wednesday for one hour starting at 8:00 a.m. This teleconference usually includes Bill Wiebold, (UMC Crops), Laura Sweets (UMC Pathologist), Wayne Bailey (UMC Entomologist, and Pat Guinan (UMC Climatologist) with all the Regional Agronomy Specialists. Each agronomist reports on the weekly rainfall, crop planting progress, crop scouting for insects, weeds, diseases, and any other event, trend or news that may affect producers. This information was used for radio and newspaper articles to alert and warn producers of potential insect and disease problems.

Program Title: 2006 Integrated Pest Management Work and Scouting

Each year I and other Regional Agronomists work with UMC Agronomy Specialists to scout for crop and forage insects and diseases. In 2006 I monitored a Black Cutworm Pheromone trap, European Corn Borer Pheromone trap, Japanese Beetle Pheromone trap, and a Western Bean Cutworm Pheromone trap. These traps are set out and checked two times a week from April-September depending on which insect. Black Cutworm and European Corn Borer are in Linn County every year and occasionally cause crop damage. Western Bean Cutworm moths are moving in some from the west, I caught the first WBC moth in Linn County in 2006. WBC larva can damage immature corn kernels like corn earworms do if they increase to high numbers. No Japanese Beetles have been found in Linn County yet. Japanese beetles feed on corn silks and prevent pollination.

For 2006 I managed a Soybean Rust “Sentinel” plot. The plot was monitored starting in late May-late September. In early June agronomists collected 100 soybean leaflets each week, putting them in a zip-lock plastic bag with a moist towel and shipped them overnight to Dr. Laura Sweets, MU Pathologist to identify soybean rust if

present. No soybean rust was detected in North Missouri in 2006 from early June until leaf drop (maturity) in October. Some Soybean Rust was identified in the bootheel in November 2006. Soybean rusts confirmation date, state and location can be viewed at www.sbrusa.com. In 2006, I did find some soybean aphids in low numbers in Linn County for the first time. The over 150 hours and many miles I drove monitoring the insect traps and soybean sentinel plot were paid for by a Integrated Pest Management Grant.

**Program Title: Soil Water and Conservation District Board Secretary (SWCD)
for Linn and Macon Counties.**

I have been secretary of the Linn County SWCD since 1992, 14 years. In 2005 I was assigned as secretary of the Macon SWCD.

DESCRIPTION:

The Secretary is the duly appointed extension representative on the Soil and Water Conservation District Board. The Secretary shall assist the District Clerk to provide sound Technical and administrative guidance and leadership for the District Board. The Secretary shall serve as active member of the Board.

SPECIFIC DUTIES:

- The Secretary will comply with all the duties described in the “Job Description” for Soil and Water Conservation District Officials.
- The Secretary shall attend and actively participate in all Board meetings and District activities.
- The Secretary shall take, or make arrangements for taking, accurate and detailed minutes of all District Board meetings. The Secretary shall review accuracy, completeness and sign all board meeting minutes before they are distributed.
- The Secretary, as the extension representative shall provide technical and non-biased recommendations, assistance and leadership to the Board and District Clerk related to agriculture production practice, natural resource conservation.
- The Secretary should be proactive in the development and implementation of educational programs that benefit District clientele and meet the state and district conservation goals.
- The Secretary, as a representative of the University of Missouri and University Missouri Extension, should not make it a standard practice to sign cost share or other District agreements.
- The Secretary shall assist the District Clerk to prepare and submit accurate District reports.
- The Secretary shall perform other duties as determined by the Board and District Clerk.

QUALIFICATION:

- Regional Specialist with University of Missouri Extension and is appointed to the position by the employee’s Regional Director.

RELATIONSHIPS:

- Regional Director and County Extension Council
- Other district officials and employees
- Soil and Water District Commission and Department of Natural Resources
- NRCS
- Federal and other agencies and groups with mutual conservation interest

BENEFITS:

- Networking with clientele and others involved in the conservation of Missouri natural resources and land stewardship.
- Input to identify local and regional educational needs and issues
- Opportunity to implement sound research based practices that are promoted through local and regional educational programs
- To maintain technical competency and experience through participation in various educational and training opportunities offered by DNR, NRCS.

TIME REQUIREMENT:

- Attend 12 regularly scheduled board meetings, as well as committee meetings, special meetings and events. It was possible for me to attend 11 Linn County SWCD meetings and 12 Macon County SWCD meetings. These meetings were held at various times, day time and at night. These meetings represent 99 hours plus driving time, Macon is 35 miles away, Brookfield 13 mile from the Extension office.

I attended the annual SWCD training conference November 27-29, 2006 at Tan-Tar-a, Lake Ozarks, MO. I presented Resolution NO.7. This resolution ask for pelleted lime to be used in place of agricultural lime for small acres (<5 acres) and for farmers to be fully compensated for the higher cost pelleted lime. Ag lime =\$15.00-\$20.00/ton, pelleted lime \$90.00/ton. Pelleted lime can be easily spread with fertilizer, Ag lime cannot.

Program Title: County Program Director

CPD duties take 15% of a Regional Specialists time during the year. In 2006 a County Plan of Work for 2007-2011 was completed. Considering all the special meetings and council meetings about 16 hours were spent on this task. This Plan of Work was one of the best planned, conducted, used more local input, than any of the four Plans of Work I have experienced. Beyond the typical duties of Extension Council Elections, securing candidates for the elections, training Extension Council members, work with the county commissioners, office maintenance and management; there are extracurricular activities such as helping the County Clerk with “Polling Training” and a skin cancer screening project.

I worked with the University of Missouri Health Care who selected Linn County as one of the counties for “Skin Cancer Screening”. Thirty flyers were sent out to radio, newspaper, bulletin boards, banks, restaurants, and most businesses. On June 16, 2006, 46 people were screened for skin cancer at Pershing Memorial Hospital Brookfield, MO. according to Debbie Frazier, hospital staff. This was a Melanoma project sponsored by the University of Missouri Health Care.

Program Title: ISE (In Service Education) Events and Other Educational Programs for Regional Specialists

ISE 443 - “Bringing the Farm to the Cafeteria”, June 22, 2006 Kirksville, MO. TCRC. This training was designed to increase the awareness among agricultural, community development and nutrition extension educators about the possibilities of farm to school cafeteria programs and equip them with fundamental tools for developing programming in this area.

ISE 413 - “Weed and Pest Management Field Day” June 12, 2006. This field day was held at UMC Bradford Farm. This ISE included: “Weed Control Chemicals New, Old, New Combinations, Noxious and Invasive Weeds” “Update on Confirmed Herbicide Resistance in Weeds” and update on “Insect Pests and Diseases of Crops”. ISE 448 - “University of Missouri Extension Responds to Emergencies, In Box Exercise”. This ISE was conducted state wide by Centra 7 (computer conferencing) like a telephone conference. This MU Extension Disaster Preparedness exercise focused on how to handle an avian flu pandemic that spreads from wild birds, free range birds to local poultry. ISE 448 covered how to handle dead birds citizens may bring to the Extension office, etc.

Wind Energy update - Kirksville, MO. TCRC September 12, 2006. This was a special meeting on wind energy. There were speakers from MU, windmill electric generator company, and state energy officials. Present and future construction of wind generating sites were shown and discussed.

Program Title: 2006 Missouri Livestock Symposium

The symposium was held December 1-2, 2006 at the Kirksville middle School. Subjects for this symposium included Beef Cattle and Ag Business (3 presentations), Beef Cattle and Stock Dogs (6 presentations), Equine (5 presentations), Sheep and Meat Goat (6 presentations), Forages (4 presentations), Renewable Resources (4 presentations), Wildlife and Conservation (4 presentations), and Around the Home (4 presentations), plus a trade show, free food, and special entertainment. I am one of 24 committee members including 5 University Extension Specialists.

This symposium had an attendance of 1500 people total, with 44 attending from Linn County.

Program Title: Farm Chemical Disposal

This program was suggested by a farmer on our Extension Council, Rex Wood. We contacted Vicky Kugler at the Department of Natural Resources for the required procedures and the hazardous waste disposal vendors. The following article was put in Ag Beat newsletter, the local newspaper and on radio stations KMZU & KRES. In the Ag Beat newsletter we put the deadline and a postcard to return to the Linn County Extension Office.

Farm Chemical Disposal

by Dr. Leon McIntyre

Left over farm chemicals, whether labeled or unknown (no label on container) are hazardous and tend to accumulate over the years in your barn, garage or machine shed. They are toxic by nature and may be in crumbling or rusting containers. Children, adults, employees, pets or livestock may be inadvertently exposed to these chemicals and these pesticides can accidentally, or with time and neglect, cause pollution to the environment. The Linn County Extension is sending you this survey to determine how much need there is for a chemical pickup and disposal program for farm chemicals. The first step in this program is to determine the amount and need for this program so that we can start obtaining funds to pay for waste farm chemical collection and disposal. Please take the time to fill out and return the enclosed post card indicating the pounds of dry pesticide and/or the pints, quarts, or gallons of liquid pesticide you have to dispose of. This may be the only opportunity for you to properly (and legally) dispose of your waste farm chemicals.

<p>Farm Chemicals</p> <p>Do you have any left over farm chemicals that you would like to dispose of?</p> <p>Please contact Linn County Extension Office to let us know what you have and how much. Please contact us by November 24th, 2006 at 660-895-5123 from 8:30 - 4:30 p.m.</p> <p>We are working toward facilitating a Farm Chemical collection and disposal.</p>

We know from past experience and telephone calls that there are left over farm chemicals out there but we got little response. Three postcards were returned. This was a disappointing result to a valiant effort. Over 350 postcards were mailed out.

Programs Held in Linn County By Other Northeast Specialists in 2006



Family Nutrition Education Programs
Nutrition and Lifeskills for Missouri Families

University of Missouri Extension Family Nutrition Education Programs (FNEP) reached 849 low-income participants with nutrition education in Linn County during 2006. 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.

Evaluation data collected across the entire state reflects the positive impacts that occur in every county with FNEP. Within FNEP are two key programs, each with its own system for evaluating impact: the Family Nutrition Program (FNP) and the Expanded Food and Nutrition Education Program (EFNEP).

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

Two thousand nine hundred fifty-six (2,956) teachers whose classrooms participated in FNP gave us feedback.

Here is what the teachers told us:

- 97% want the program again
- 97% said class response was excellent or good
- Most enjoyable parts of the program: activities, games, and tasting food!

99% (2,916 teachers) reported one or more changes in students after FNP.

Evaluation data was collected on students who participated in a variety of curricula from Pre-Kindergarten through Grade 12.

Donna Haley is the Nutrition Program Assistant (NPA) for Linn County. For 2005/06, Donna reached a total of 849 students in Linn County. Positive teacher and student feedback keep the Family Nutrition Program coming back year after year impacting participants to understand and apply the importance of healthy nutrition and physical activity habits in their lives beginning at an early age. “Success Stories” are comments and observations made by teachers, students, parents and the NPA themselves that are shared throughout the State so others can hear first hand what is being said about the program. Here are some examples:

- “My students were excited everyday to have Mrs. Haley come. They really seemed to learn a lot and they paid attention!”
- “The students really enjoy the program. It’s a great way for the kids to learn about nutrition. Donna works well with the students.” “Mrs. Haley did a fantastic job including my special needs students.”

Submitted by *Mary Ellen Smyser* Coordinator Food/Nutrition Program



Learning Life Skills Improves Lives *Cathy Oesterling*, Family Financial Education Specialist

The main objective of Life Skill class held in Brookfield at the Community Action Agency was to increase limited resource families’ ability to become more self-sufficient and, in turn, to improve their lives. The areas focused on have been financial management and energy conservation.

Participants learn how to:

- establish family financial goals and the strategies for making those goals become a reality.
- track their spending and design a spending plan.
- start a savings plan.
- make wise consumer decisions.

A large percentage of the 18 participants have indicated they would take the following actions: Set one or more financial goals, open savings or banking account, track expenses for at least one month, prepare a spending plan, pay bills time and contact creditors in case problems should occur.

2006 ANNUAL REPORT LIVESTOCK INFORMATION By Chris Zumbrunnen

BEEF CATTLE AGE AND SOURCE VERIFICATION PROGRAM

In October 2005 Missouri was the first state in the U.S. to implement a Quality Systems Assessment (QSA) program allowing producers to sell source and age verified cattle with third party verification. Missouri is the second largest cow/calf producer in the U.S. and with programs such as QSA; Missouri will continue to be a supplier of high quality beef both in the domestic and global market places.

In order to be eligible for a supplier evaluation, a cow/calf producer’s actual calving records defining the calving season must be available. Producers can enroll their cattle in one of the Approved Programs or as an independent producer under the Missouri Department of Agriculture’s umbrella QSA program. Producers must agree to an on-site evaluation by a trained Supplier Evaluator who will review the producer’s records to verify

that they have the appropriate documents to prove the age and source of their cattle. Once approved, the producer is placed on the program's supplier list. In Linn County 16 producers have received on farm evaluations from Extension Livestock Specialist Chris Zumbrunnen.

BEEF CATTLE ARTIFICIAL INSEMINATION SCHOOLS

Due to increased demand for instruction in artificial insemination of beef cattle three classes of this popular annual program were held. In these classes held from 5:00 pm to 10:00 pm for 3 evenings, producers spend time in the classroom to learn the basics of beef cattle reproduction and artificial insemination techniques. They spend an equal amount of time practicing these techniques on live cows. The school is done in cooperation with the MU Agriculture Experiment Station and Accelerated Genetics. Three full classes each consisting of 12 students each participated in the 2006 sessions. There is an overwhelming demand for this type of training and additional schools will be held 2007. From Linn County 6 producers attended the schools.

BEEF REPRODUCTION WORKSHOPS

Thirty nine producers, 22 from Linn County, attended one of three workshops held in cooperation with the MU Agriculture Experiment Station. Dr. David Patterson presented information on the latest research in estrous synchronization and the use of timed artificial insemination in beef cattle. The information presented assists producers in incorporating new reproductive technology into their genetic improvement program. In addition 78 producers attended one of the 8 hands on demonstration sessions held on estrous synchronization in beef cattle. These sessions provided producers with an opportunity to gain hands on practice with using some of the new synchronization tools.

CALVING CLINIC

Area producers had the opportunity to increase their knowledge and sharpen their calving management skills at a Calving Clinic held in January at the Forage Systems Research Center. Topics covered included; recognizing a normal delivery, assisting the cow at calving, keeping newborn calves healthy, management and nutrition tips to help cows cycle and breed quicker after calving and feed cost economics. Calving management clinics have been very popular in the past and the feedback and evaluations of this one were no different. Of the 79 producers in attendance 94% rated the material presented at the clinic as excellent and something that would be useful to implement in their own operation. 23 producers from Linn County attended.

FREEZE BRANDING CLINIC

Forty -three attended a clinic on using freeze branding for beef cattle in herd identification held in Green City. David McAtee, farm supervisor at the MU Thompson Farm described the technique to the producers in attendance and demonstrated the process on live animals. As livestock identification becomes a more and more important tool in beef production either due to regulations or participation in certain marketing programs freeze branding provides producers a method for permanent identification that is easy to read at a distance and is humane to the animal. The meetings were done in cooperation with Green City Livestock Market. Eleven Linn County residents attended the clinic

BEEF MARKETING WORKSHOP

Fifty two Linn County producers attended a workshops held in cooperation with the Linn County Farm Bureau Board and the MU Agriculture Experiment Station. Information was presented by State Farm Bureau personnel on the outlook for the grain and livestock markets. Chris Zumbrunnen, Extension Livestock Specialist presented information on Missouri's Quality Systems Assessment (QAS) Program for beef operations. The program unveiled by the Missouri Department of Agriculture makes Missouri the only state with a QAS program in place recognized by USDA. This increases demand for calves from participating producers as meat from these cattle is eligible for importation into countries such as Japan who are demanding third party validation of the age and source of origin of the cattle. Producers who have verified their cattle under the program have seen as much as a \$3.50 per hundred weight increase in price.

ASSISTANCE TO LIVESTOCK PRODUCERS

Educational information and assistance is provided to livestock producers in Linn County by Extension Livestock Specialist, Chris Zumbrunnen. The areas of nutrition, herd health management, breeding and genetics and facilities design are topics where requests for assistance are most often requested. Two topics that are becoming more and more areas of interest are synchronization beef cattle and grazing system designs. The requested assistance is provided either by telephone and or e-mail consultation or by on farm visits. In addition a variety of computer programs are used by Extension Livestock Specialist Chris Zumbrunnen to assist him in providing individualized assistance to producers. The areas where assistance is most often requested are ration balancing, computing grazing calculations and cow lease/share arrangements.

RESEARCH AND DEMONSTRATIONS ASSIST PRODUCERS IN DECISION MAKING

The farm demonstration has long been proven to be one of the most effective teaching tools in Extension. Producers from all 16 counties in the Northeast Region have received information on these projects which include:

- Alternative Watering Options for Cattle
- Hay Verses Stockpile for Winter Feeding
- Managed Grazing Systems
- Estrous Synchronization Methods in Beef Cows
- Ethanol production co-products as supplements for beef cattle

ASSISTANCE TO YOUTH LIVESTOCK MEMBERS

Educational information and assistance is provided to 4-H and FFA members in Linn County by Extension Livestock Specialist, Chris Zumbrunnen. The area where assistance is most often requested is nutritional advice for the member's livestock project. In addition educational information and assistance is provided to members, leaders, advisors and parents in the areas of health management, animal selection and care and breeding. Training is provided to swine members to meet the requirements of the Pork Quality Assurance Level 3 program which is required by some fairs for exhibition and by most packers for the youth to sell their project animals. Assistance is provided with livestock shows at County and State fairs and with livestock judging training. Nose printing of steers and lambs and DNA collection of swine for exhibition as well as weighing for rate of gain contests are conducted. In 2006 a new approach was tried by Livestock Specialists Chris Zumbrunnen and Bruce Lane in an effort to reach more leaders and members. Three training sessions which reached a total of 104 members and leaders were conducted by ITV. These sessions were down linked in Putnam, Sullivan, Linn, Macon, Randolph, Adair and Livingston Counties. Session topics included Sheep and Meat Goat Project Management, Swine Project Nutrition and Management, and Swine Artificial insemination. Additional sessions covering other species will be held in the spring of 2007.



Nutrition and Health Education

Judy Soper, Nutrition and Health Education Specialist provided programming for both Head Start schools in Brookfield. Time with the children was spent sharing the children's story, *Mousekin's Golden House*, which is centered around a little mouse who makes an abandoned Jack-O-Lantern its winter home, and following it by having the children help measure and mix the ingredients for vitamin A-rich pumpkin bars. The children learned in a most basic way about the vitamin A pumpkin contains and why it is so important for their night vision, growth and development.



MU Extension Business Development Programs

Wendy Harrington, BD Specialist

As entrepreneurs and innovators, Missouri's small businesses are becoming a more diverse group that continues to make the state's economy productive. There are approximately 500,000 small businesses in Missouri. Nearly 98 percent of all businesses with employees are categorized as small businesses. In assisting the owners and managers of those businesses, MU Extension contributes to a county's economic development and the well-being of its citizens and communities.

In Linn County, during 2006, business development program specialists and business counselors with MU Extension, Missouri Small Business Development Centers (MO SBDC), Missouri Procurement Technical Assistance Centers (MO PTAC), Missouri Small Business and Technology Development Centers (MO SBTDC)—including the MoFAST program, and the Missouri Market Development program served 73 people and their companies with business start-up and management counseling, training, and other assistance.

Overall, the University of Missouri's Business Development Programs (BDP) served 11,176 people and their businesses state-wide. The total impact for all businesses assisted by the BDP was:

- New jobs: 6,054
- Sales increases: \$168,908,759
- Government contracts: \$186,010,945
- New businesses: 83
- Jobs retained: 570
- Loans and investments in business: \$73,666,326
- Businesses turned around or failures prevented: 18
- Acquired assets: \$24,863,597
- Government investment in commercialization: \$8,720,277 in SBIR proposals submitted.
- Clients/companies receiving business counseling: 3,540
- Business training attendees and conference participants: 6,048

Information transfers: 1588

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

THE BUSINESS DEVELOPMENT PROGRAM DELIVERY NETWORK INCLUDES

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

Missouri Small Business Development Centers (MO SBDC) – Funded by the U.S. Small Business Administration, this \$1.6 million 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.

Missouri Procurement Assistance Centers (MO PTAC) -- Funded by the U.S. Defense Logistics Agency for \$495,000, this program helps businesses win government contracts for a wide range of products and services.

Missouri Small Business Technology Development Centers (MO SBTDC) – Some centers throughout the state are staffed with specially trained counselors who can assist high-technology and high-growth firms with a variety of management, production, financing, technology development and commercialization issues. One of the products offered through those centers is the MoFAST SBIR/STTR assistance. Specialists in this area work with university faculty and other innovators to win awards in support of the commercialization of technology.

Missouri Market Development Program – This program, which is funded at \$100,000 by the Environmental Improvement and Energy Resources Agency via the Missouri Department of Natural Resources, helps business owners find markets for recycled materials and helps other businesses in securing funding for manufacture of new goods using those recycled materials.

Career Options – Improving individual capacity is the focus of the MU Extension Career Options program, which is funded through a partnership with the Missouri Department of Economic Development Workforce Development unit. This program assists displaced workers and others in many ways, including through the exploration of business ownership and career repositioning following company closings, layoffs and other employment-related changes.



DAIRY PROGRAM EXPANDS EXTENSION AUDIENCES - The dairy program in Northeast Missouri is very unique in that the great majority of our producers are Amish and Mennonite. Typically this audience does not utilize Extension to a great extent. However, efforts in the last few years have paid off as this group has accepted programming as important to them and their business. The key to making this successful has been establishing a personal relationship with this unique audience. Barry Steevens from the University of Missouri and Joe Koenen have worked hard to cultivate this relationship for several years.

One of the main educational thrusts has been the Amish Ice Cream meetings held in August. The meetings are co-sponsored by Dairy Farmers of America (DFA) who provide the ice cream and much of the promotion. In 2006 around 107 persons attended these meetings in Missouri and 64 at the one in Iowa that local Extension staff were involved with. Two additional Iowa meetings were done without Northeast staff members due to Joe Koenen being sick. Missouri staff assist with the Iowa meetings due to the fact there are no dairy Extension support persons in Southern Iowa. Clint Meinhardt, Agronomy Specialist in Knox County, assisted with the meetings in Drakesville, Iowa and Revere, Missouri for the 1st time this year and provided excellent information to the audience.

Memphis Dairy Day was again held in February with the attendance in 2006 being around 75. Turnout was down due to the fact that it was a very nice February day with temperatures in the 50's. This audience is primarily Mennonite and comes from Scotland and Knox counties in Missouri mostly with some coming from Iowa as well. Local sponsors provide pay for the meal and have booths as well.

UPDATES DONE FOR BEEF-FORAGE PRODUCERS - North Missouri is well suited to beef cattle and forage production and the majority of our producers have those enterprises on their farms. Lower cattle prices and increasing cattle and forage production costs resulted in the local Agricultural Extension staff discussing the need for an update series for farmers in our area.

Twenty-nine (29) producers attended 5 meetings held in Linn, Macon, Putnam, Randolph and Sullivan counties in the Northeast Region this fall. Topics presented at the meetings were "Getting More Bang for Your Fertilizer and Chemical Dollars" by Leon McIntyre, Agronomy Specialist; "The Beef Cattle Business – What Does the Future Hold?" by Joe Koenen, Agricultural Business Specialist and "By Product Feeds in Beef Cattle Rations" by Chris Zumbrunnen, Livestock Specialist.

The turnout was less than hoped for, mainly due to competition with the Saint Louis Cardinals playoff run in all but Randolph County. However, 21 of the 29 attended in Macon and Randolph counties where all 3 of the Specialists are relatively new to those counties and that was very positive. Interaction and questions asked were very good in all the meetings so all that did attend felt that the information was worthwhile. Randolph county attendees discussed ideas for other Ag programs, including an Agricultural Marketing series possibly in 2007 or 2008. Linn County was represented by 2 producers

ESTATE PLANNING SERIES CONTINUES STRONG - Farmers and Small Businesses struggle with estate planning and business succession concerns. Rising land and asset values and increased complexity of understanding these issues cause many in our area to put off this critical need. An Estate Planning curriculum that was developed around 5 years ago has proved beneficial and basic enough that lay persons can understand. Locations around the state can be reached through the use of interactive television (ITV) which broadens the program too. Another 53 persons attended the 2006 sessions in Kirksville, Palmyra, Princeton, Nevada and Salem. The Nevada TCRC was a 1st time location and the attendance there was very good (over 25). These same classes have been held in the winter of 2003, 2004 and 2005 utilizing a curriculum that the Agricultural Business team – Joe Koenen, Karisha Devlin, and Darla Campbell – had developed. ITV has allowed us to reach people throughout Northeast Missouri (Brookfield, Moberly, Kirksville, Memphis and Kahoka) as well as throughout Missouri.

Evaluations of these programs have always been very positive as to the usefulness of the information. Comments received during the classes and later on included: **“You saved us much research and possible mistakes”**, **“This was something we should have attended years ago”** and **“The information we received will be invaluable down the road”**. Another result of the class was the expressed need for an advanced class to discuss things in more detail. A grant proposal on that has been submitted and several additional co-workers and professionals will assist with that, hopefully getting done in the summer of 2007.

FARM TAX SCHOOL PROVIDES NECESSARY EDUCATION - Farmers and Landowners face several complicated income tax issues. Schools held outside of North Missouri are a long drive and costly, especially for smaller preparers. However, keeping updated is a necessary part of doing business and impacts our area farmers greatly. Due to all these factors, a Farm Income Tax School is held yearly in Kirksville.

This year’s school, held in December, had 15 participants. These participants prepare over 2,900 tax returns in Northeast Missouri with over 1,000 of those returns being farm income tax returns. The evaluations indicate that this school is viewed as a critical educational need from those who attend. In addition to preparers, a few farmers attend as well. Efforts were made to expand a mailing list and attendance was up slightly. Other ideas were discussed this year to get more people to attend in the future. Three people attended from Linn County.

Farm
Tax
School



FARM MANAGEMENT ADDRESSES CONCERNS - Farming continues to be a complicated business that requires many decisions on the part of the owners and operators. Extension Agricultural Business Specialists provide assistance in many areas such as family succession planning, farm lease issues, financial analysis, tax implications of farm sales, what kind of custom rate to charge, cost to care for cows and the value of hay are just a few of the questions answered each year.

These questions and assistance are critical because they all have an economic impact that is significant to the individuals involved. Agricultural Business Specialists have access to tools such as computer spreadsheets, FINPACK financial analysis programs, connections to other Specialists and other tools to assist producers. Many of these questions are handled one-on-one due to their financial nature which makes it difficult for clients to discuss in public. Without this assistance, many of these persons would be out thousands of dollars if they had made the wrong decision.

Submitted by Joe Koenen, Agri-Business Specialist, Putnam County



Money Management for Offenders through Probation & Parole

Wendy Brumbaugh, Family Financial Education Specialist, Shelby County

One hundred fifty-nine offenders from Macon (42), Randolph (14), Shelby (66), Linn (11), Adair (19), Ralls (4), Sullivan (3), Counties attended a 5-hour money management workshop at the “request” of the 41st Judicial Circuit Court. The workshop is interactive and avoids the traditional teacher/lecture format. The workshop focused on values, goal setting, managing resources, developing a budget, checking, using credit, renting to own, and living on less. Participants worked in teams as well as individually to make the experience more meaningful. Follow-up evaluations indicated that all participants established goals. Comments included: “Thank you for presenting the information in a meaningful way.” “I was really dreading this class, but I learned a lot and I’m glad I came” “I have to practice what I learned.” “I never realized Identity Theft was happening in small towns, I thought it was only in larger cities.” “It is now up to me, thanks”



Rent Smart Programs for 2006 - By David M. Davis, Housing and Environmental Design Specialist, North-west Region.

The Rent Smart program is to be part of the Green Hills Community Action Agency’s *Tenant Based Training Education Program*. As such, the GHCAA, UO/E, the Housing Assistance Council (HAC), Section 8 Program, and other organizations will join together to develop a program to teach tenants how to be a good tenant. Programs will be conducted in the other Green Hills counties in February. These counties are Daviess, Livingston, Grundy, Mercer, Putnam, Sullivan, and Linn. Attendance at the programs is expected to be greater than at the weatherization programs done in the same counties.

Marketing for this program involved making phone calls to North Central MO College, Trenton City Hall, and the Green Hills Community Action Agency to set up an appointment with the Dean of Students, the City Administrator, and Housing Administrator at GHCAA.

After several phone calls and dropping off a program outline, I was able to meet with Christy Fox of the GHCAA in my office. She was very excited about the program and had already written up a four-page project description for their FY03 involving Rent Smart.

This program will eventually be done in all nine of the Green Hills Community Action Agency offices this spring.

Program Summary: - This program is originally from University of Wisconsin Extension. I will be using parts of this program to teach two classes January 7, 2003. One class will be in Bethany, MO and the other will be in Hamilton, MO. The classes will be taught at the Green Hills Community Action Agency (GHCAA) offices in Harrison County and Caldwell Counties respectively.

The Outline I use:

The Rent Smart Program

1. Lesson 1: Where Does the Money Go?
2. Lesson 2: Developing a Spending Plan
3. Lesson 4: Finding a Place to Live
4. Lesson 5: Checking Out the Apartment and the Landlord
5. Lesson 7: Understanding Rental Agreements
6. Lesson 8: Home Care: Who is Responsible for What?
7. Lesson 10: Communicating with Your Landlord and Neighbors
8. Lesson 11: Moving On: Notice, Security Deposits, and Evictions

Linn Counties Rent Smart program was held January 18th with 4 attendees.



Master Gardener Program: Three Master Gardeners from Linn County reported 279.75 service and continuing education hours for 2006. Of this, 251.75 were service hours. The Federal Bureau of Labor Statistics reports the value of volunteer time is \$18.04. Using this figure, the Linn County Master Gardeners volunteered \$4,541.57 worth of their time to projects benefiting Linn County. Some of their projects included community beautification at the Brookfield library, YMCA, Presbyterian Church, Kiwanis garden, and a city park. Community beautification was also done at the Disney Complex in Marceline, and a little country school house in Linn County. Other service included consultations in which gardening advice and information was provided; writing articles for the newspaper; and presenting garden programs for local clubs and organizations.

Horticulture Newsletter: Forty-eight people from Linn County receive the Garden Talk newsletter each month informing them of timely gardening tips and other important gardening information. The newsletter also informs them of upcoming horticulture events and activities.

Submitted by Jennifer Schutter, Horticulture Specialist, Adair County

Linn County Annual Meeting - February 20, 2006



Leaders Honor Roll 2006
 Treasurer Dave Davis, 3rd from left present awards to:
 Kevin and Sue Judas
 Eldon Turner



Entertainment by the Eric Bright Family



Dr. McIntyre, 2nd from left presents **Certificate of Appreciation** to out going board members Kevin Judas, Sherry Ellison and Joni Holloway



Chairman Kevin Judas presented the **Missouri Century Farm Awards** to (left to right) James and Linda Dennis and Christine and Jon Foster



Board members Treasurer Dave Davis, Secretary Sue Judas, Vice Chairman Alicyn Ehrich, board members Jan Riepe, Roger Ehrich, Dean Palmer, Debby Green, Eldon Turner, Chairman Rex Wood, County Commissioner Rick Solomon



Guest speaker Dr. Steve Long of the Marceline Community Health Center



February 28, 2006
 Crop Pest Update And Farmers Forum
 Farmers who participated were (left-right) Rex Wood, David Zell, Paul Benson, Mike Spencer, Gary Kitchen, Richard Copelin, Bill Brockman and Ronald Bowyer.



Board members brain storming at one of our plan of work sessions in February.



Scotland County Extension Council meeting that Dr. McIntyre was a guest speaker.



2006 Missouri State Fair Farm Family from Linn County
 Lucas, Penny, Whitney, Kellie, and Clarke Burns

2006 Replicated Corn Plot



4-H Youth Development

4-H is University of Missouri Extension's Youth Development Program for youth and adults. The program combines the cooperative efforts of youth, volunteer leaders, youth education assistants and 4-H youth specialists. Linn County is devoted to upholding the mission of Missouri 4-H in creating environments in which the young people are valued, contributing members of their community. A total of 218 youth were members of Linn County 4-H during the 2005/2006 year (September - August). There were 40 adults volunteering their time to act as club leaders and /or project leaders for 131 different project areas. Subject areas covered in project work are related to skills involved in agriculture, home economics and careers. Participation in the 4-H program provided the entire family an opportunity for education through enjoyment.

Linn County 4-H Clubs

Brookfield 4-Hers
Pershing's Pride
Purdin Pages
Shafter
Shelby
South Eagle
Southeast Linn
Wyandotte

2005-2006

President
Vice President
Secretary
Treasurer
Reporter
Flag Bearers

Adult Advisors

Fair Board Rep

4-H Council

Brian Ehrich
Jessica Solomon
Kellie Burns
Branden Judas
Allison Riepe
Christina Judas
Garrett Roe
Jan Riepe
Charlene Roe
Penny Burns

4-H Events

Our local 4-H events serve as a perfect opportunity to showcase to the entire County what 4-H has to offer, not only to youth, but to the entire community. The following is only a sample of the many fun and worthwhile events held in Linn County throughout the year.

Annual Fundraiser

Again the county sold cookie dough and candles for a fundraiser effort. Over \$3000.00 was raised to be used for council expenses and reimbursements to members for expenses on trips.

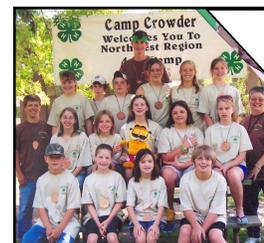
4-H Scholarship

Two outstanding 4-H seniors from the county received scholarships. The Linn County scholarship to Branden Judas; and the Correll Memorial scholarship went to Brian Ehrich.

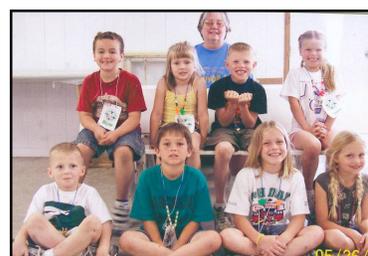
4-H Camp

Camp was again held at Crowder State Park outside Trenton. 19 members attended one of the two opportunities available. Traditional activities were

done such as swimming, workshop, crafts and sports under the direction of Ron Walker Area 4-H Specialist. This year's theme was "Cowboy Up".



Clover Kids Camp



This year's day camp was held May 26th. The theme for this year was "Safety First". Those who attended were: Wayne Triplett, Delainie Smith, Elaine Ewigman, Blayke Ellison,

Cameron Creason, MaryAnne Matzen, and Bryce Johnson and Drew Hall.

Special activities included Bike Safety, Fire Safety and Kitchen Safety.

4-H Events

Our local 4-H events serve as a perfect opportunity to showcase to the entire County what 4-H has to offer, not only to youth, but to the entire community. The following is only a sample of the many fun and worthwhile events held in Linn County throughout the year.

ITV Class

With the help of Chris Zumbrunnen, area live-stock specialist, 4-H members were brought into the 21st century technology with classes on swine, swine AI, and sheep.

School Enrichment

Hatching Chicks in the classroom was a great success this year with 7 classrooms participating with a total of 189 children.

Contest Day

This year's Contest Day was held July 6th at the Vo-Tech School. Activities included Dress Revue, Demonstrations, Public Speaking, Table Setting and Judging Classes.

Achievement Night

Achievement night was Monday night of Fair week. This year we had 684 exhibits in the Youth Building. Out of those, 130 were chosen for the state fair and 41 were chosen to go to Interstate. A big thank you to the parents and to the volunteers who assisted with the evening's activities. The night could not have occurred without your help and gracious volunteerism of your time.

Recognition Program

This is the opportunity to recognize members and adults for their year long 4-H work. Fall Revue items were displayed in the County Courthouse

Fairground Improvements

This year as part of the continual fairgrounds improvements this year were wildflowers were planted on the east side on the Youth Building and air holes cut under the Thurlo lean-to.

4-H Trips

One of the reasons why Linn County's 4-H Program is so strong is because our youth are encouraged to participate in trips and conferences held in different cities, states and even countries.

State Teen Conference

As one of the first state conferences for those age 12 and 13, this event provides a lot of learning and fun. Those that attended this year were Daniel Alexander, Lucas Burns, Paige McCollum, Christina Judas, Rachel Zumbrunnen, Quinsie Gall, and Kristen Ehrich



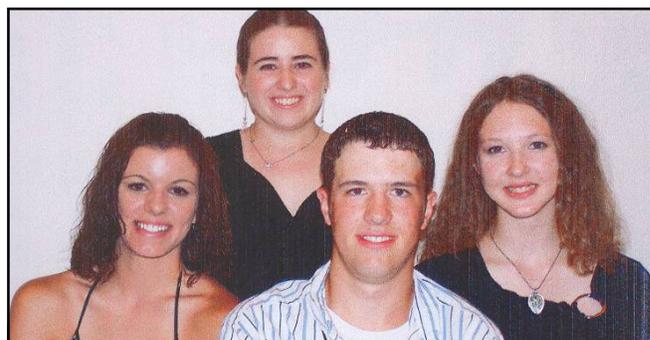
State Teen Conference January 28-29, 2006

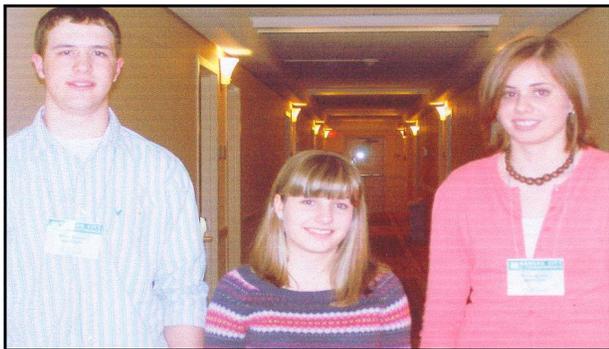
Top-Quinsie Gall, Rachel Zumbrunnen, Paige McCollum Kristen Ehrich.

Below-Daniel Alexander, Lucas Burns and Christina Judas

State 4-H Congress

Over 300 4-Her's from across Missouri participated in the 2006 State 4-H Congress. Linn County was well represented. Attending were Heather Main, Cassie Frock, and Kati Walters. Brian Ehrich was again elected as a representatives on the State 4-H Council for the Northeast Region.





Kansas City Global Conference March 8-11, 2006
 Brian Ehrich, Anna Shargar (Foreign Exchange Student) and Kellie Burns

Kansas City Global

A conference that provides opportunities for youth to explore careers, technology, environment and cultural diversity in the global society. Those who attended this year conference were Kellie Burns and Brian Ehrich.

State Youth Forum

4-H member, Katie Walters, Quinsie and Heather Main went to Jefferson City for the State Citizenship Focus Youth Forum.

State Contests

Linn County had record numbers attend State Spring and Fall Contests:

State Robotics Camp - Michael Crutcher attended Robotics camp which was held in Rolla, MO.

State Exchange - worked with Livingston County team and hosted teens from Jackson, MO. (Cape Girardeau Co.) They stayed in homes and visited area attractions such as Hannibal, MO. They also got together for group suppers and went bowling on the last night. Allison Riepe, Garrett Roe play hosts to the group.

MO Dept. of Agriculture Livestock Judging and Grading Contest Joel Martin-workshop

State Horse Judging - Hayley Wood

State Fair Demonstration (General) - Amanda Alexander, Daniel Alexander, Lucas Burns, Paige Clawson, Audrey Martin, Joel Martin, Miriam Martin, Anthony McCollum, (Working) Tawnya Hardy, Allison Riepe

State Livestock Judging – Jr. Team - Jessica Majors, Joel Martin, Miriam Martin, Rachel Zumbrunnen. Sr. Team - Eric Allen

State Fashion Revue - Kristen Ehrich, Amanda Hueffmeier

State Public Speaking - Jared Main

State Shooting Sports – Kirby Asher, Tristen Creason, Andrew Crutcher, Michael Crutcher, Tristen Duncan, Brian Ehrich, Colton Hardy, Laura Hardy, Anthony McCollum, Paige McCollum, Stewart McCollum, Shaun Miller, Jarid Riley, Matthew Shoop, Jonathan Solomon, Andrew Walters, Nathan Weimer, Lee Young

National 4-H Sm. Bore Rifle Team - Kirby Asher

National 4-H Archery Team - Nick Roush

National 4-H Congress - Brian Ehrich

Shooting Sports Certification - Dick Liedorff

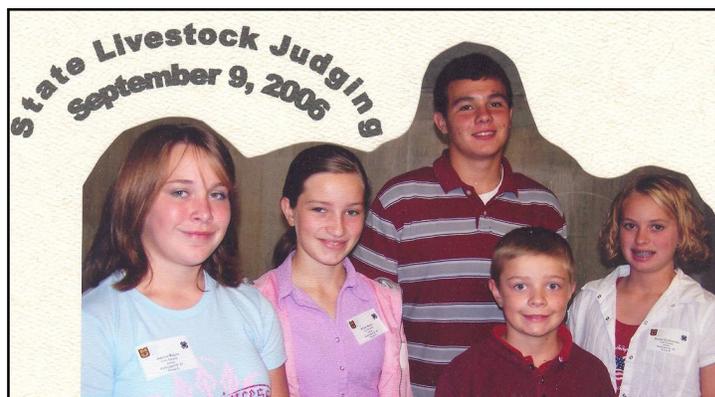
State Fair

Again this year Linn County came home with special recognition for numbers of participation in: 4-H Beef Sweepstakes, Dog Sweepstakes, Over-all Livestock Sweepstakes

2005-2006 4-H Council Officers

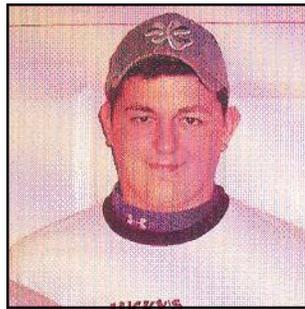
Seated-President Brian Ehrich, Vice President Jessica Solomon, Secretary Kellie Burns, Treasurer Branden Judas.

Standing-Reported Allison Riepe, Flag Bearer Garrett Roe & Christina Judas, Advisors Jan Riepe, Charlene Roe & Fair Board Rep. Penny Burns.



Judging members were Jessica Majors, Miriam Martin, Eric Allen, Joel Martin and Rachel Zumbrunnen

Joel, Jessica, Miriam and Rachel placed 3rd in the Junior Division. Joel place 4th and Miriam placed 8th in Jr. Individuals.



COUNTY FAIR SHOTS 2006 AT WORK & PLAY

MO State Shooting Team 2006
Kirby Asher
Small Bore Rifle
Nick Roush
Archery



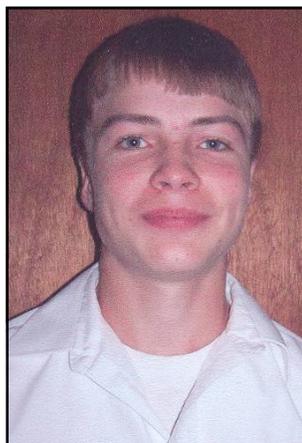
State Exchange 2006 from Jackson, MO.
(front row) Tara Kirchoerfer, Kate Kirchoerfer, Kelly Jahn (middle) Katie Eggers, Juliane Beck, **Allison Riepe**, Ashley Brown. (top) Tyler Lappe, Charlie Meier, Kyle Hemmann, **Garrett Roe**.



Kristen Ehrich
took 3rd place
at State Fashion
Revue



State Public Speaking
September 16, 2006
Jared Main



UNIVERSITY EXTENSION OF LINN COUNTY ANNUAL FINANCIAL REPORT FOR YEAR ENDING 2006

BEGINNING BALANCE: **\$ 2,564.44**

REVENUES:

County Appropriations	\$23,638.00	
Investment Income	\$ 200.00	
Ag Beat Sponsorship	\$ 633.28	
Resales/Edu Services Fees	\$ 434.30	
Miscellaneous Income	\$ 1,498.08	
Postage Income	\$ 2,100.01	
TOTAL REVEUES		\$28,503.67

EXPENSES:

Salary	\$12,901.00	
Staff Benefits	<u>\$ 3,053.99</u>	
TOTAL COMPENSATION	\$15,954.99	
Travel	\$ 3,350.00	
Postage	\$ 1,751.90	
Telephone	\$ 692.23	
Adverting	\$ 840.70	
Rent/Lease Postage Equipment	\$ 400.00	
Scholarship	\$ 120.00	
Supplies	\$ 1,696.17	
Insurance	\$ 250.00	
Soil Test	\$ 127.50	
Publication for Resale	\$ 76.95	
Furniture/Equipment	\$ 78.53	
Miscellaneous	\$ 393.03	
Repair & Maintenance	<u>\$ 299.00</u>	

TOTAL OPERATING COSTS **(\$26,031.00)**

REVENUSES LESS EXPENSES (Ending Balance) **\$ 5,037.11**

This is to certify that the above is a true statement of revenue available and expenditures from local sources in conducting programs during the year 2006.

Signed: _____ Date: _____
 Dr. Leon McIntyre, Linn County Program Director