



## Heifer International's 'Mission to Zero' supports global agriculture

By Lucas Shivers

Working in the agile global agricultural economy, Heifer International creates upward mobility with the provision of agribusiness around the world.

"We are part of a much bigger picture as we partner with farmers in places of poverty to engage in ways to feed their families, care for the Earth and accelerate market development," said Hilary Haddigan, chief of Missions Effectiveness from Heifer International.

Haddigan shared at the Upson Lecture Series at Kansas State University in McCain Auditorium on April 23 to hundreds of students and community members.

"We wanted to get regional communities involved, have them attend to learn about Heifer and how they might be able to help with serving humanity," said Daniel Thomson, professor of Production Medicine in the College of Veterinary Medicine. "The students have worked very hard on this event, and it was a very special night in Manhattan."

The Upson Lecture Series began in 2010 by a campus Food for Thought organization in honor of Dr. Dan Upson.

"I like working with students to plan this event because they were acting locally to think globally to plan the lecture," said Don Boggs, associate dean of Academic Programs in the College of Agriculture.

Haddigan outlined several examples of Heifer International's work to end hunger and poverty through agriculture.

"You may just think you

are a student or a farmer, but you can be part of this work," said Haddigan. "All of us, when we eat, can appreciate the work of the farmers who produced our food. Think about your choices of what you buy and choose to eat. We can make sure farmers are benefiting. You can also join our work by volunteering or donating."

Heifer's strategically connected projects align with a long-term commitment to empower small-scale farmers to achieve social, economic and environmental secure livelihoods. Programs address specific needs of a region and vary in size and geographic scope to find the greatest, most lasting impact possible.

"It's about connecting agriculture and food," said Haddigan. "We're ensuring farmers are gaining security for their families and building a more stable and just world."

### Mission to Zero

The Heifer International mission is to end poverty while caring for the earth. The non-profit works in 125 counties as opportunities arise for economies to better support producers. Heifer International framework follows a set of development requirements in order to meet high quality project standards.

Haddigan shared Heifer International's founding story of Dan West, who saw opportunities in agricultural areas as he traveled and is quoted to say, "We should be giving not a cup, but a cow."

More than 70 years ago, the first livestock shipment went to Puerto Rico with in Manhattan. Three separate two-hour sessions will be held for public comment. Participation for each session is limited to 50. During the public input portion of the sessions, participants will be limited to three minutes of comments. All participants must preregister for one session at <https://fs22.forms.site.com/KansasDeptAg/IndustrialHemp/index.html>.

The public forum sessions will provide an overview of the Alternative Crop Research Act, including the legal param-



Hilary Haddigan, chief of Missions Effectiveness for Heifer International, was the presenter at the Upson Lecture on April 23, speaking of the organization's effort to end hunger and poverty through agriculture.

14 heifers to distribute to families. The calves were given to other families, as receivers became givers.

"It was a dignified way to be part of an ever-expanding circle of hope," Haddigan said. "With the gift of livestock, farmers could provide for their families and futures."

### Heifer's Process

Heifer works to provide livestock, crops and sustainability plants with a values-based holistic community development model.

"In the first stage of a project, we work to organize community groups to set rules about how people in a new area will work together," Haddigan said. "We never work with just one individual. Groups must cooperate together to support change."

One of the first activities after situation analysis and

holistic appraisal is setting a 'savings and earnings fund' at the very beginning. Teams start training in the Heifer cornerstones lessons like accountability, sharing and caring around 12 successful practices. Community groups complete deep reflections on these cornerstones related to their culture and establish a common set of values and vision.

"We refer to the connections to others as 'social capital,'" Haddigan said. "In one study from Africa, we found that each project resulted in supporting five additional, spillover families."

Then projects build capacity with more specific training on literacy, nutrition and agricultural practices. To have effective implementation, key stakeholders put plans into action. Finally, Heifer works

to optimize resources and develop community.

"We've honed this process over many years, but the core components are all the same," she said. "It's all about just and sustainable work."

Several case studies report out successes with long-term data, like one example in a copper belt region in Zambia.

"For households with Heifer livestock, we have seen 200% increase with income and 25% increase in household food consumption," Haddigan said. "The effects of the intervention continue to get stronger with the asset with resilience as a promising sign."

For another project in Malawi, families earned \$1.09 in 2009 to \$4.60 in 2015 after the support of Heifer's work.

"We know families can overcome poverty," Haddigan said.

### Scaling Up

Ten years ago, Heifer started a dairy in east Africa with a hub for milk collection to build a farming business.

"We've been partnering to a bigger scale with initial funds of \$42.8 million to earn more than \$131 million annually with huge increases," Haddigan said.

Before the global economic crisis in 2008, 800 million were living in extreme poverty with an increase to one billion after a few years. These areas were hit hard.

"We wanted farmers to be part of an economic system to see how to repeat the success of the dairy project to allow for families to achieve a living developed a statewide strategic growth plan in recent years, and is committed to pursuing new and innovative opportunities to grow agriculture. The research generated by participants of this new industrial hemp program will be valuable data in identifying the growth potential offered in this sector.

The 2014 Farm Bill included a section to allow for universities and state departments of agriculture to begin cultivating industrial hemp for purposes of research, provided that the growing and cultivating of

income," Haddigan said. "We want to build enterprises along the way to give access to capital and mobilize partners along the value change to work with us."

### Value Change

Gradually over time, Heifer hopes to spread ways of working to give a nutritious, low-cost diet with decent housing, other basic needs to absorb costs and become stable.

"We believe everyone should be eligible for a dignified life," Haddigan said. "It has shifted how we've worked with projects to bring in analytics. They may need a road to move items to market, so it's helping us think about how to put farmers in the center."

In northeast India, Heifer determined a formula of many streams of diverse agricultural production including goats and other livestock, vegetables and crops, fodder seed and others.

"We want farmers to be more into business mindset to intervene and build out a whole economic system by not just focusing on one family with one component of livestock," she said.

Rather than take for granted the market, Haddigan said Heifer has created cooperatives to leverage funding and projects from local resources to provide more funds for projects. In another project in Nepal with goat cooperatives, Heifer found a viable market-oriented system.

"In reaching out to form partnerships, we're strengthening sustainability and long-term commitments," Haddigan said.

## KDA prepares to oversee industrial hemp in Kansas

Governor Jeff Colyer, M.D. recently signed Senate Bill 263, which enacts the Alternative Crop Research Act allowing the Kansas Department of Agriculture to oversee the cultivation of industrial hemp in a research program. KDA has begun the process of developing rules and regulations to guide the Alternative Crop Research Act, which will include an open dialogue and information exchange at a public forum in May.

Individuals who are interested in participating in the industrial hemp research program are invited to attend a session at the public forum on May 11, 2018, at the KDA office at 1320 Research Park Dr.

eters set within the bill, and the procedures that will guide development of the rules and regulations. Guest speakers will include Brent Burchett, the director of the plant division from the Kentucky Department of Agriculture, and Mitch Yergert, retired director of the division of plant industry from the Colorado State Department of Agriculture. The sessions will include time for questions and feedback from attendees.

The legislation requires that the rules and regulations to acquire a license and otherwise carry out the

provisions of the Alternative Crop Research Act will be complete on or before December 31, 2018. Research projects involving industrial hemp may vary, and applications for pilot projects and research proposals must be approved prior to licensure.

The opportunity to grow a new specialty oilseed crop in Kansas offers potential for diversification for Kansas farmers looking for an alternative crop, or for new farming enterprises interested in cultivating industrial hemp. The Kansas agriculture industry has

developed a statewide strategic growth plan in recent years, and is committed to pursuing new and innovative opportunities to grow agriculture. The research generated by participants of this new industrial hemp program will be valuable data in identifying the growth potential offered in this sector.

The 2014 Farm Bill included a section to allow for universities and state departments of agriculture to begin cultivating industrial hemp for purposes of research, provided that the growing and cultivating of

industrial hemp is allowed under state law. Industrial hemp is defined by SB 263 as all parts and varieties of the plant *Cannabis sativa* L. that contain a delta-9 tetrahydrocannabinol (THC) concentration of no more than 0.3 percent on a dry weight basis.

Information about the recent legislation as well as the upcoming public forum can be found at [agriculture.ks.gov/industrialhemp](http://agriculture.ks.gov/industrialhemp) or by contacting the KDA plant protection and weed control program at 785-564-6700 or at [kda.ppwc@ks.gov](mailto:kda.ppwc@ks.gov).

## Scott and Carol Ritchie recognized for contributions to the Flint Hills

The Flint Hills Discovery Center Foundation recognized Scott and Carol Ritchie, of Wichita, as the "2018 Friends of the Flint Hills," Saturday, April 14, 2018. The award honors significant time, effort and resources devoted to the cause of conserving the Flint Hills of Kansas and northern Oklahoma and to the Flint Hills Discovery Center.

"The award is given to an individual(s), nongovernmental organization or public institution each spring since 2012," President of the Flint Hills Discovery Center Foundation Bruce Snead said.

Scott and Carol Ritchie were chosen as the 2018 recipients due to Scott's many cooperative efforts to minimize the development of the Flint Hills native prairie and to main-

tain the integrity of the ecosystem for future generations. Carol has worked tirelessly to educate youth about the tallgrass prairie through her devotion to Camp Wood and the entire Flint Hills region.

Scott and Carol Ritchie accepted the award at the annual "Friend of the Flint Hills" recognition event held on April 14, 2018, at the Flint Hills Discovery Center in Manhattan.

About the Flint Hills Discovery Center Foundation: The Flint Hills Discovery Center Foundation functions to advance the mission and work of the Flint Hills Discovery Center through dynamic and vibrant development programs which identify, cultivate, solicit and express appreciation to donors of the Foundation. The Foundation seeks

capital, and programming, along with deferred and endowed gifts in support of the Flint Hills Discovery

Center.

To learn more about the Flint Hills Discovery Center Foundation Contact V.

Marie Martin, Flint Hills Discovery Center Foundation Director at [fhdcfoundation1@gmail.com](mailto:fhdcfoundation1@gmail.com).



Bruce Snead, president of the Flint Hills Discovery Center Foundation, Scott Ritchie, Carol Ritchie and V. Marie Martin, director of the Flint Hills Discovery Center Foundation, stand in front of the Friends of the Flint Hills plaque which displays the name of each Friend of the Flint Hills recipient since 2012.



### They Will Survive

**By John Schlageck, Kansas Farm Bureau**  
When you think of Kansas farmers and ranchers the words resilience and resolve come to mind. This is especially true as they look another year of drought squarely in the face. Most crop and livestock producers believe 2018 is shaping up to be as dry as 2011 or 2012 – once consid-

ered the peak of a long-term drought that started back in 2005. As the calendar winds down on April, a month farmers and stockmen rely on for life-giving rain, only a scattered few areas have received moisture of any significance since last fall. The moisture that fell in late September and early October of 2017, allowed Kansas farmers to sow

their wheat in the ground, but since then little if any moisture has materialized. Today the wheat crop is in poor shape throughout most of Kansas. Pastures remain brown and bone-dry. Ponds contain little water, and some are dried up completely. Winds whip through the dry-grass countryside at speeds between 40-70 miles per hour. This means fires could ignite again. In some areas they already have. Farmers and ranchers living in these tinder-box dry rural areas of Kansas suffer from anxiety right now for fear of another fire season. Many stockmen

have changed how they do things to be a little more prepared. Many manage their stocking rates carefully to squeeze the most out of their pastures without overgrazing. Some even delay feeding on windy days so cattle follow the feed truck to safety if a fire should break out. Others are culling their herds more closely already. Still others plan to cull cows down the road if it stays dry. In Barber County, where the notorious Anderson Creek Fire burned nearly 400,000 acres in Kansas and Oklahoma in late March of 2016, burn-

ing restrictions were lifted in early April. "A few controlled burns here and there have taken place throughout April," according to veteran farmer stockman Dennis Ricke. He also serves as a volunteer fire fighter in Barber County. In spite of the lifted burning restrictions a severe lack of moisture keeps many of these Kansas counties in a "High Fire Alert" status. Still, farmers and stockmen like Ricke continue to cling to faith. They believe every day is one closer to the next rain. Kansas farmers and ranchers have been

through such dry, dire conditions before. Sure, they'd rather see green pastures and full ponds every year, but that's just not how weather conditions work in Kansas. Most will cinch their belts a bit tighter and pull their hats down a little further and brace for whatever Mother Nature throws their way. They will survive. *John Schlageck is a leading commentator on agriculture and rural Kansas. Born and raised on a diversified farm in northwestern Kansas, his writing reflects a lifetime of experience, knowledge and passion.*

## K-State joins national effort to communicate the value of federal investment in agricultural research

A new effort to boost federal investment in agricultural research, called FedByScience, (<http://fedbyscience.org>) launched last week in Washington, D.C., bringing together Kansas State University with 15 other public and private universities. The initiative, timed with the release of the 2018 House Farm Bill, focuses on demonstrating to the public and policymakers the many ways that USDA-funded universities and researchers are creating a safer, healthier and more productive food system. "From Kansas State University's founding in the time of the Civil War and every day since, our mission has been to support the many aspects of food production through our research, education and outreach," said John Floros, dean of the College of Agriculture at K-State and director of K-State Research and Extension. "Our global research footprint and strategic partnerships ensure we have the best minds in the world focused on what most helps farmers. But so much work must be done if we are going to safely, economically and sustainably keep up with demand. For that, we need awareness from lawmakers and support from food consumers – which is everyone." FedByScience launched with two briefings for Senate and House of Representatives staff members. The effort tells stories in which scientific discoveries and innovations have improved the way food is produced and distributed. K-State's contributions highlight research on improving the safety of the nation's beef supply; improving wheat genetics; advances in the efficient, profitable and healthy production of swine; and preventing crop diseases. The FedByScience website offers visitors several ways to discover how university research affects their own food supply. One way is to learn about different food sources that contribute to what ends up on their plates at breakfast, lunch and dinner. "Access to safe, nutritious food and a healthy environment is a fundamental human right," said Kathryn Boor, FedByScience co-chair and The Ronald P. Lynch Dean of Cornell University's College of Agriculture and Life Sciences. "There is no issue of greater importance for our experts in the agricultural and food sciences and few more deserving of federal support" "U.S. farmers are confronted by turbulent commodity markets, extreme weather, and an uneven economy," said FedByScience co-chair and University of Nebraska-Lincoln Chancellor Ronnie Green. "A stronger investment in agricultural research can provide the science and innovation that farmers need to navigate these obstacles. Universities are now joining together to ensure that our stories about the value of food and ag research are heard." The agriculture and food production industries are facing considerable challenges today. Wheat farmers face worsening challenges from drought, heat, diseases and pests. To understand, at the genetic level, what can help make wheat more resilient and resistant, K-State researchers and others have deciphered the ten billion letters of genetic code of an ancestor of wheat called wild emmer. Wheat breeders have cross-bred various relatives of wheat to foster beneficial traits for many years, but with this new wild-emmer data, they can identify the beneficial genes faster and more precisely, giving them much better likelihood of breeding wheat varieties that can thrive in increasingly tough conditions. Such challenges can only be addressed through additional research, yet the U.S. agricultural research budget has declined in real dollars since 2003. The U.S. has been second to China in total public agricultural research funding since 2008; in 2013, China's spending on public agricultural R&D became nearly double that of the U.S. Other participating universities are Colorado State University, Cornell University, Iowa State University, Michigan State University, New Mexico State University, North Carolina State University, Purdue University, Texas A&M University, University of California at Davis, University of Florida, University of Georgia, University of Illinois at Urbana-Champaign, University of Nebraska-Lincoln, University of Wisconsin-Madison, and Washington University in St. Louis.

### Agronomists test tools for measuring sustainability of production practices

Romulo Lollato is not the average observer when he drives past a Kansas wheat field. Where most see waving heads of wheat, Lollato, an assistant professor of agronomy, may see a crop that needs more moisture or has been over-fertilized. He is leading an effort to determine just how sustainable typical wheat production practices in Kansas are, with an eye toward identifying ways that could be modified to enhance sustainability. Part of the effort, which started in 2017, is testing the usefulness of a tool called the Field-to-Market FieldPrint Calculator. Lollato and his team used it to analyze previously collected data. In addition, ten farmers are providing information about their current management practices on about 60 wheat fields. The researchers are quantifying sustainability on those practices. The FieldPrint Calculator tool is responsive to some of the tests, Lollato said, especially in exhibiting the impacts of nitrogen fertilizer rates and pesticide applications, but the team has identified room for improvement. "The first year of the project was very broad in nature, mostly to understand the tool we were working with and to quantify the sustainability of a few typical wheat fields in Kansas," he said. Final results of the current project, which was funded by the American Bakers Association, will be available later this year. Lollato hopes to secure funding for a project in which the team would work with producers to modify particular practices and compare to their usual management in terms of sustainability.



It's amazing how time marches on and I often wonder why instead of a slow steady march, time seems to have decided to pick it up to double-time. It seems as though we just started April and it is already May. Part of this might be because we were stuck in February or March for the past three months. In any case we are into May and I am not at all ready. Time, however, does not seem to care about my feelings and is moving on at a rapid pace. Because of the rotten weather I am so far behind on my farm work that I might not ever catch up. The corn should be in the ground, fences should be fixed, and the pastures should be eagerly be waiting on the cows. None of that is anywhere near done. I had my time completely scheduled and I don't have time or room in that schedule for changes. It is like time does not know this is Tatum's senior year. Ah yes, Tatum's senior year. Another example of how time does not work on my schedule. My kids should not be old enough to be in college; I wasn't done enjoying their time in sports, 4-H and FFA, again it seems like my schedule and my sense of time were not consulted. At very least we should not be looking at the last couple of weeks of Tatum's high school career. This is all going by way too fast, I just wish I could stick a foot out and slow the merry-go-round of life down just a little bit. It's funny how our perspective on life changes as time goes by. I remember Isaac's senior year and I don't remember being quite this melancholy and I feel bad about that. I guess it was because I knew I still had a kid in high school and all the last moments were not the total last moments. Down deep inside I knew that I still had a couple of years of transition left. Then I blinked and all the sudden we are looking at the last few moments as parents of a high school student.

married. Along came kids and another transition, then the kids were in school and now we are staring at the transition to being empty-nesters. During each of these monumental life changes I promised myself to enjoy the moment and the transition, so I could remember what that point in my life felt like. I must admit that I am a pretty conflicted person right now. The farmer in me is screaming that I have no time for anything but trying to catch up with the never-ending list of what needs to be done. Crops must be planted, cows must go to pasture and the sheep need to be worked. Those tasks can't be ignored and really shouldn't be put off. I need to keep my nose to the grindstone and stay home. Then the dad part kicks in. Last night we attended Tatum's last District FFA Banquet and watched her retire as a District FFA officer. I rode with her on the way home and she mentioned to me that the only current leadership position she held was student body president and that election was next week. Only a handful of softball games, a couple of state FFA contests, a few spring livestock shows, and graduation remained on the calendar. Suddenly the pull of work did not seem so important. I look at my calendar and I realize that the final home stretch of high school is right here. Sure, it has been a long, tiring race but who wants to walk across the line? A couple of weeks and it will all be over. I want to go to each event, savor the moment and enjoy the last couple of hours of being the parent of a high school student. I know the work I need to get done is important, but I am also just as sure that it will get done in time and, God willing, I will have plenty more crops to plant and springs to get cows worked and out to grass. Right now, it seems like it is more important to be there for all the last times and soak up all the memories. I don't want to look back in a couple of months and wish I had not missed those moments. That is the struggle. After all, I keep telling myself, there will be plenty of time to rest next year when we transition into empty-nesters. Right?

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# Coalition works to expand rural e-connectivity

A coalition of stakeholders committed to the expansion of broadband services in rural America today launched the first in a series of workshops to focus attention on the wide-ranging challenges to achieving connectivity, and the opportunities improved e-connectivity could bring to the people and economies of the nation's rural regions.

U.S. Secretary of Agriculture Sonny Perdue and Federal Communications Commission Chairman Ajit Pai joined executives from the five partner organizations

Agriculture Secretary Sonny Perdue joined a coalition of stakeholders to launch a series of listening sessions on challenges

to achieve e-connectivity in rural America, including Farm Foundation, The Rural Broadband Association (NTCA), National Rural Electric Cooperative Association (NRECA), CoBank, and the National Rural Utilities Cooperative Finance Corporation (CFC), in kicking off the listening sessions by highlighting the importance of e-connectivity to all sectors of rural America.

The next listening session will be in June 2018 in Minnesota, with additional sessions to be completed over the next six months.

"Broadband is vital to the rural economy in what is now a highly interconnected global marketplace," said Tom Halver-

son, president and CEO of CoBank. "We need leaders on both sides of the aisle in Washington to work together to facilitate broadband investment and ensure that rural America remains competitive and strong."

Achieving e-connectivity across rural America is not a simple task. "Actions needed to improve e-connectivity vary widely by community and region," notes Farm Foundation president and CEO Constance Cullman. "These listening sessions will serve to highlight common issues, success stories to build strong broadband systems, and challenges that are yet to be met."

Executives from regional telecommunications

companies participated in the kickoff to provide perspectives on the broadband service issues. This panel included Levo Knowles of the Tennessee Telecommunications Association, Mel Coleman of the North Arkansas Electric Cooperative, and Ken Johnson, Administrator of Rural Development's Rural Utilities Service.

"We are excited for the prospects of enhanced cooperation and coordination between USDA, the FCC, and private operators like those in NTCA's membership - all of whom recognize the value of and critical need for sustainable broadband in rural America. In that spirit, it is an honor to have both USDA Secretary

Perdue and FCC Chairman Pai offer remarks at today's kickoff event," said NTCA CEO Shirley Bloomfield. "NTCA's nearly 850 members connect many of America's rural communities to the world with robust broadband, and we are pleased to participate in this collaborative effort to promote better access to rural broadband."

Rural electric cooperatives are well aware of the needs of e-connectivity in their communities, and more than 100 electric cooperatives already are providing broadband service to their members. "The widening digital divide is a national crisis deserving of a national response," said Jim Matheson, CEO of NRECA. "For decades, electric cooperatives have enhanced the quality of life throughout rural America. Now, many of those same electric co-

operatives are helping reinvo-

rate rural economies by bringing broadband to rural homes, businesses and farms. High costs to serve areas with low population density remain the biggest obstacle to expanded rural broadband access. An expanded combination of federal grant and loan funding through USDA is a critical step to connecting rural America."

Stakeholders emphasized the need for collaborative efforts to enhance broadband services in rural America. "Leveraging additional investment in rural broadband infrastructure will require a team effort," said Sheldon Petersen, CEO of CFC. "Local partnerships can be a wonderful way to leverage resources, expertise and efficiencies to ensure that rural communities can fully participate in today's 21st century economy."

# Food waste resonates beyond the trash bin

By Jan Suszkiw

Here's a thought to chew on before you toss out that unfinished meal or oddly shaped fruit or vegetable: U.S. consumers waste nearly a pound of food per person per day. So says a study published today by a team of Agricultural Research Service (ARS) and university scientists in the journal *PLOS ONE*.

That food waste, in turn, is equivalent to about one-third the daily calories that each American consumes—about 327 million individuals. Interestingly, fruits and vegetables—key components of a high-quality diet (as defined by the 2015-2020 Dietary Guidelines for Americans)—were the most wasted food items, the team determined from their computer-aided analysis of eight years of available food survey data.

Zach Conrad, a postdoctoral nutritionist with the ARS Grand Forks (North Dakota) Human Nutrition Research Center, together with fellow nutritionist Lisa Jahns and colleagues from the University of Vermont and University of

New Hampshire, conducted the food-waste study to fill gaps left by prior research that sought to establish links between diet quality and environmental impacts. In this study, the team notes that food waste should be factored into such efforts because of the substantial resources used to produce food, including cropland and amendments like pesticide and fertilizer, as well as irrigation water.

For example, using a powerful computing tool known as the U.S. Foodprint Model, the team determined that from 2007 to 2014, U.S. consumers discarded 150,000 tons of food daily—waste that corresponded to the yearly use of an estimated 30 million acres of land (7 percent of total U.S. harvested cropland), 780 million pounds of pesticide, 1.8 billion pounds of nitrogen fertilizer and 4.2 trillion gallons of irrigated water. Each represents potential costs to the environment and the farmers who dedicate their time, land and other resources to growing or raising food that's meant to be eaten.

The study also found

that—

U.S. consumers wasted almost a pound (422 grams) of food per person daily, which is equal to 30 percent of daily calories consumed and 25 percent of daily food eaten by weight.

Of 22 food groups studied, fruits, vegetables, and mixed fruit and vegetable dishes (39 percent of total) were wasted the most—followed by dairy (17 percent) and meat and mixed-meat dishes (14 percent).

Growing fruits and vegetables—signatures of diet quality required less land than other crops but more water and pesticide.

The researchers note that while their study used the best-available food survey data, there are limitations to it and that additional research is needed. The findings nonetheless underscore the importance of improving diet quality hand in hand with using measures that reduce food waste and avoid overburdening the environment. Efforts like the U.S. Food Loss and Waste Challenge to create greater awareness of food waste issues, educating consumers on properly preparing and storing

fruits and vegetables, and discerning natural ripening from spoilage can also help.

"Food waste is an issue that plays out at many different levels," says Conrad. "Looking at them holistically will become increasingly important to finding sustainable ways of meeting the needs of a growing world population."

The Agricultural Research Service is the U.S. Department of Agriculture's chief scientific in-house research agency. Daily, ARS focuses on solutions to agricultural problems affecting America. Each dollar invested in agricultural research results in \$20 of economic impact.

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# Under cover: June 5 bus tour will visit farms growing produce in high tunnels

Until recently, Midwest farmers who grow fresh fruits and vegetables were limited to a relatively short growing season, thanks to cold, windy days at the beginning of the growing season and cold weather in the fall. The increasing use of high tunnels, also called hoop houses, means that farmers can extend their growing season.

On June 5, K-State Research and Extension is offering a bus tour of high tunnels in the Kansas City area, including the K-State Olathe Horticulture Research and Extension Center and two private farms. The tour starts at the center at 10 a.m. and ends at 4 p.m. The center is located at 35230 W. 135th St. in Olathe.

Participants will learn about produce growing practices, how the host growers use high tunnels and how they incorporate food safety into their production systems. Critical information for growers about new food safety regulations will be provided.

More information and registration on the bus tour is available at: <https://bit.ly/2vGLs1v>

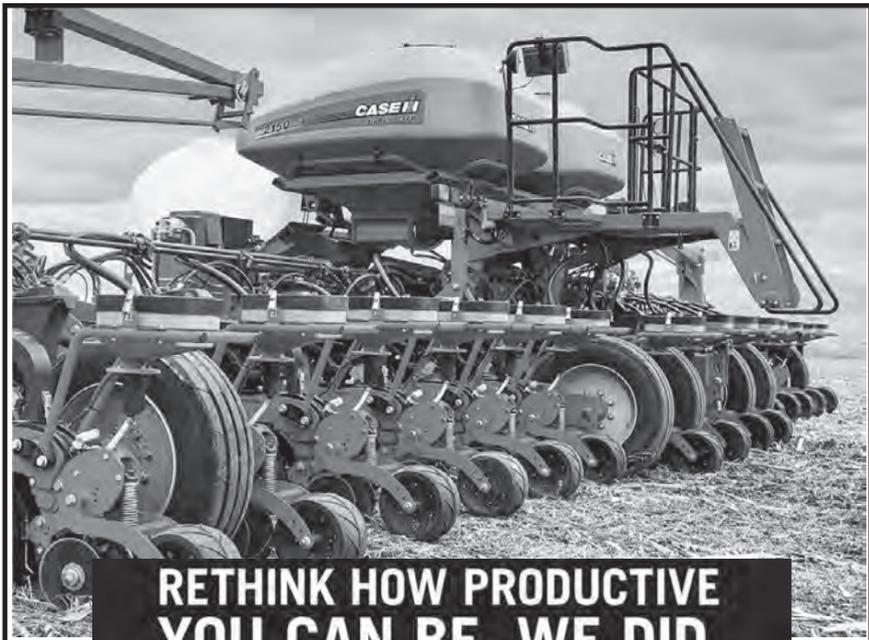
K-State is offering these training sessions for growers, including:

May 7 - Intro to Produce Safety (with U. of Missouri) - Independence, Missouri;  
 May 17 - Good Agricultural Practices (GAPS) Food Safety Plan Workshop - Olathe;  
 May 23 - Food Safety Modernization Act (FSMA) Produce Safety Rule Grower Training - Olathe;

June 5 - Bus tour of high tunnels - Olathe; and

June 8 - Food Safety Modernization Act (FSMA) Produce Safety Rule Grower Training (with U. of Missouri) - Jefferson City, Missouri;

More information is available on the K-State Research and Extension Produce Safety website: <https://bit.ly/2qT1tM4>



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**GRASS & GRAIN** **Our Daily Bread**  
 \*\*\*\*\* By G&G Area Cooks \*\*\*\*\*  
**Loretta Shepard, Helena, Oklahoma Wins Weekly Recipe Contest & Prize**  
**Winner Loretta Shepard, Helena, Oklahoma:**  
**MEXICAN LASAGNA**

1 large package Doritos  
 1 1/2 to 2 pounds hamburger  
 1 green pepper, chopped  
 1 onion, chopped  
 1 can cream of chicken soup  
 1 can cream of mushroom soup  
 1 small can evaporated milk  
 1 can Ro-tel tomatoes  
 1 1/2 cups grated Cheddar cheese

Place a layer of crushed Doritos in bottom of a 9-by-13-inch pan. Brown together the hamburger, green pepper and onion; spread over layer of Doritos. Mix together in a separate bowl the chicken and mushroom soups and evaporated milk. Place on top of meat mixture then layer the Ro-tel tomatoes and another layer of Doritos. Top with Cheddar cheese. Bake at 350 degrees for 15 to 30 minutes.

**Ladonna Grindol, Ber-ryton:**  
**EASY GUMBO MEATBALLS**

2 pounds ground beef  
 4 slices bread, crumbled  
 3/4 cup evaporated milk  
 1 can chicken gumbo soup

1 can French onion soup  
 Combine ground beef, crumbled bread and evaporated milk. Form into 1-inch balls. Arrange in a 9-by-13-inch pan. Mix together soups and pour on top. Bake at 350 degrees for 1 to 1 1/2 hours.

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The winner each week is selected from the recipes printed. Send us your favorite recipe. It may be a main dish, leftover, salad, side dish, dessert, or what-have-you.

1. Check your recipe carefully to make certain all ingredients are accurate and instructions are clear. 2. Be sure your name, address and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery.

3. Send it to: Woman's Page Editor, Grass & Grain, Box 1009, Manhattan, KS 66505. OR e-mail at: [auctions@agpress.com](mailto:auctions@agpress.com)

**NOTE: You can garnish with fresh parsley.**  
 \*\*\*\*\*

**Kimberly Edwards, Stillwater, Oklahoma:**  
**CHIPOTLE GUACAMOLE**

6 large avocados, halved, pitted & peeled  
 1/4 cup finely chopped red onion  
 2 tablespoons finely chopped jalapeno pepper  
 1 teaspoon garlic salt  
 1/2 teaspoon cumin  
 1 1/2 tablespoons lime juice

Mash avocado in a large bowl with a fork or potato masher until creamy and a few chunks remaining. Stir in onion, jalapeno, garlic salt and cumin until evenly combined. Stir in lime juice. Garnish with red onion if desired. Chill with surface covered with plastic wrap.

**Millie Conger, Tecumseh:**  
**PINEAPPLE RASPBERRY PUNCH**

32-ounce bottle pineapple juice, chilled  
 12-ounce can frozen raspberry lemonade concentrate  
 4 cups cold water  
 (1) 1-liter bottle club soda, chilled

In a large punch bowl stir pineapple juice, lemonade and 4 cups water until combined. Gently stir in club soda.

**NOTE: Can garnish with fruit if desired such as fresh pineapple, fresh raspberries.**

**Lydia Miller, Westphalia:**  
**ORANGE FLUFF SALAD**

12-ounce container cottage cheese  
 3-ounce package orange gelatin  
 11-ounce can mandarin oranges, drained

In a skillet heat olive oil over medium heat. Put all in skillet (except green onion and soy sauce) and cook until heated through and egg is set. Top with chopped green onion and soy sauce.

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**Cooking Healthy Meals Under Pressure Program Coming to You**

By Cindy S. Williams, Meadowlark Extension District, FACS

Workshops will be conducted in the following locations:  
 Oskaloosa: May 1 at Oskaloosa City Hall Public Meeting Room, located at 212 West Washington Street.  
 Holton: May 3 at Kansas NE Heritage Complex Building, located at 122200 214th Road.  
 If you own an electric pressure cooker, please bring it along. There is no charge for this program, but registration is a MUST and numbers will be limited.  
 To register, contact the location you would like to attend: Oskaloosa, 785-863-2212 or Holton, 785-364-4125.  
 This program is being sponsored by the Meadowlark Extension District, with Cindy Williams and Nancy Nelson presenting the programs. Any questions, please contact Cindy Williams—785-863-2212 or Nancy Nelson—785-364-4125.

**To Raise Creative Kids — Let Them Play**

(NAPS) — Fostering a child's courage to express creativity is perhaps one of the most important goals that parents can set for themselves.

**Understanding Creativity**  
 Often, when people think of creativity, they think of the arts, but it starts with play early in life and leads to other things as children grow. It's through play that children begin to develop their creative muscles, whether with blocks, dolls or action figures. Beyond play, kids may find creativity in the way they play sports, clean their room, prepare their food or do their schoolwork.

According to experts at The Genius of Play™, a national movement to raise awareness about play's critical role in child development and encourage more play in children's lives, creativity can help build confidence, flexibility, individuality and mental agility, and even contribute to better physical health.

**Expert Advice**  
 Dr. Erik Fisher, Ph.D. and The Genius of Play expert, believes the best way to foster children's creativity is to encourage them to try things and not feel afraid to fail. Failure itself is an amazing learning experience as it helps children develop tenacity and persever-

**AUCTION**  
**SATURDAY, MAY 5, 2018 — 10:00 AM**  
 6120 NW TIBBS ROAD — SILVER LAKE, KANSAS  
 (5 miles North of Silver Lake on Hoch Road to NW 62nd, West to Tibbs Road then South to Auction)

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**THURSDAY, MAY 17, 2018 — 6:00 PM**

Auction held onsite: 1200 Wagon Wheel Rd., LAWRENCE, KS 66049

**OPEN FOR INSPECTION:**  
 Saturday, May 5: 11:30 am-1:30 pm & Wednesday, May 9: 3:30-6:30 pm or by appointment!

If you are looking for a home that you can put your stamp on, don't miss this opportunity! This 5 bedroom, 3 bath ranch home was built in 1967 having over 2,500 sq. ft. of living area. Other features include full, finished walk-out basement; 2 living areas with fireplaces; 2 car garage; storage room and small shed out back. This is a quality built, well maintained home that is ready for your personal updates making this home your very own!

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For additional pictures and complete listing of Auction terms  
 Visit [www.FloryAndAssociates.com](http://www.FloryAndAssociates.com)

# Sheet Pan Meals Come In Handy For Quick One Pan Magic Meals

Got a sheet pan in your kitchen? When time is of the essence, it is nice to have a quick and easy meal recipe on hand. That's where sheet pan meals come in handy. A basic sheet pan is like a blank canvas to create easy, tasty and nutritious meals in your oven. Not only are sheet pan dinners easy and delicious, but they leave you with very little clean up to do afterwards!

While there are many recipes online, you can easily create your own sheet pan meal. The formula is simple: sheet pan + a protein + vegetables + oil and seasonings = a tasty meal! The sheet pan is a rimmed baking sheet and has low sides that help air circulate over and around the food.

For easiest clean-up, line the sheet pan with foil. Any pan with low sides will work and you can mix veggies with oil and seasoning right on the pan. The key with sheet pan meals is to trim or cut each ingredient to the appropriate size so everything cooks at the same speed. Vegetables that take longer to cook should be sliced thinly. Make sure ingredients are spaced nicely, so you don't overcrowd the pan. Overcrowding creates steam and keeps food from browning. We want food to brown because it improves flavor.

Proteins that work well include boneless chicken breasts, thighs and drumsticks, pork chops, salmon and other fish, kielbasa and smaller cuts of beef. Less tender cuts of meat do not work as well. Make sure you season well. Use oil, salt and pepper, and other spices and herbs. Seasoning mixtures and sauces also provide flavor. Sprinkle on fresh herbs and citrus juices at the end of the cooking time.

Stagger entry times of ingredients if necessary. Potatoes may take longer to cook than other vegetables and some proteins, so let them cook for 10 to 15 minutes first, then add other ingredients. Shrimp and fish also cook quickly, so let vegetables cook a bit first before adding seafood. Tender vegetables should be added later as well. Adapted from: <http://www.walkkansas.org/> Walk Kansas Newsletter #2 2017

For more information about these programs and others, contact the Wildcat Extension District offices at: Crawford County, 620-724-8233; Labette County, 620-784-5337; Montgomery County, 620-331-2690; Wilson County, 620-378-2167; Pittsburg Office, Expanded Food and Nutrition Education (EFNEP), 620-232-1930. Wildcat District Extension is on the Web at <http://www.wildcatdistrict.ksu.edu>. Or, like our Facebook page at [www.facebook.com/wildcat.extension.district](http://www.facebook.com/wildcat.extension.district).

\*\*\*

## SHEET PAN BALSAMIC SHRIMP & VEGETABLES

- 2 medium zucchini
- 1 medium bell pepper, any color
- 1 cup cherry or grape tomatoes
- 1 medium red onion, cut into 1-inch chunks
- 2 cups mushrooms, halved
- 1 cup asparagus, cut into 2-inch pieces
- ¼ cup plus 1 tablespoon olive oil
- 3 tablespoons balsamic vinegar, divided
- 1 ½ pounds shrimp, peeled & deveined
- ½ teaspoon Worcestershire sauce
- ¼ cup roughly chopped basil leaves
- Salt & pepper to taste

1. Place one oven rack in the center of the oven, and the other 4 inches from the top heat. Spray a sheet pan with cooking spray or line with aluminum foil. Preheat oven to 375 degrees.

2. Combine the vegetables in a large bowl. In a small bowl, combine ¼ cup of olive oil, 2 tablespoons vinegar, and the lemon juice. Add this mixture to the vegetables and toss to coat. Spread on prepared sheet pan and season with pepper.

3. Roast the vegetables on the center rack until they are softened, about 20-25 minutes, then remove from oven.

4. While the vegetables are cooking, place the shrimp in a large bowl and add ¼ teaspoon salt, the remaining 1 tablespoon of olive oil, the remaining 1 tablespoon of vinegar, and the Worcestershire sauce. Toss gently and let the shrimp marinate while the vegetables cook.

5. After removing vegetables from the oven, turn the oven to broil. Scatter the shrimp and the marinade over the vegetables in a single layer. Broil on the upper rack in the oven until the shrimp are cooked, about 5 minutes. Scatter the basil over the finished dish and serve with brown rice, orzo pasta or couscous.

**Nutrition Information per serving**  
 Calories 320; Fat 19g  
 Carbohydrates 12g  
 Protein 26g; Fiber 3g  
 Sodium 960mg.

Source: <http://www.walkkansas.org/> Walk Kansas Newsletter #2 2017



Home and Away

## It's the Journey

By Lou Ann Thomas

I'm a backroad kind of gal. As much as I appreciate the speed at which multi-lane highways can get me where I'm going, give me a gravel road in the country for the sheer pleasure of traveling on it. There is nothing better than a road lined on both sides with cropland and shallow ditches — the more winding and hilly the better.

Growing up I remember many Sundays when my parents and I would take leisurely drives. We were Sunday Drivers. You know the kind. Those who drive as though they have all the time in the world and no particular place they have to be — which was exactly how those wandering drives felt. On a long Sunday afternoon that stretched easily and seamlessly into evening, we felt as though we did have all the time in the world, and there was no place calling us more than the next hill or the next bend in the road. Rarely did we have a destination in mind when we started out, and even if we did we weren't so attached to it that we couldn't change our minds at any moment, especially if ice cream suddenly popped into our heads. Many Sunday drives included unplanned detours for a big cone of vanilla soft serve that never tasted sweeter than after a trip along a familiar dirt road.

But the roads we trav-

eled weren't always familiar. Sometimes we found new roads, some were roads we may have passed for years and not taken. I don't recall ever being disappointed at an unexpected turn.

There's a natural rhythm to life in the country with which I resonate. On days with no deadlines, time is determined by the movement of the sun rather than by a mechanical device. Mornings come

earlier, largely because it's difficult to sleep through the loud chatter of birds celebrating a new day. But that's perfectly okay, because it would be a shame to miss the sun topping the hill to the east and splashing long, golden ribbons of light across the corn and soybean fields in the valley.

I dearly love the convenience, the diversity and the cultural opportunities available in cities. But give me time to wander in the country with a cool breeze blowing through the car windows, a hawk riding a thermal above a perfectly planted field and the time to follow a gravel road no matter where it goes.

That's when I know I'm in the right place at the right time and am reminded that the destination is never as important as simply enjoying the ride.



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2005 Chevy 2500 HD Silverado 4WD, 6.0 gas, AT w/8' flatbed, bale spear; 1989 Ford F250, AT, service bed; 1983 Ford F-700 5-2, V8, 13' grain bed & hoist; JD 4020 dsl SR-WFE, 3 pt. w/JD 46A loader; IH Farmall "M" tractor; IH 6-R cyclo planter; IH 45 vibra shank 18 1/2'; IH 9 shank pull type chisel; Krause 904, 18 1/2' disk; Vermeer WR-20-10 wheel rake; King Kutter 6' finish mower, 3 pt.; Farmhand loader w/pump & valve; pull type 6 bale trailer; Blair 6x16 bumper stock trailer; E-Z Go gas golf cart; Poulan & Craftsman riding mowers; JD 4400 combine, parts only; some livestock equip., scrap iron, household, tools, etc.

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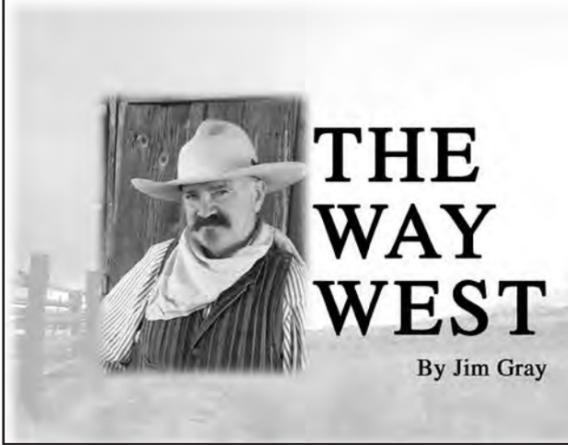
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# THE WAY WEST

By Jim Gray

## Up the Missouri River in 1836

Missionary work among the native tribes of the west began almost as soon as the first bold adventurer ventured beyond civilization. One of the most prominent organizations

was the American Board of Commissioners for Foreign Missions (ABCFM) founded in 1810 by former graduates of Williams College at Williamstown, Massachusetts.

In the spring of 1836 an ABCFM missionary party set out from New York bound for Oregon. At St. Louis the missionaries boarded the steamboat Chariton. Narcissa Whitman, traveling with her husband Marcus, kept a journal of her travels. Dr. Marcus Whitman and Reverend Samuel Parker had been on the western frontier the year before.

Mrs. Whitman noted the many "delightful residences... situated upon the mounds," as the Chariton steamed along the banks of the Mississippi before turning up the Missouri River. The mounds, built from approximately 1000 to 1450 AD by an earlier native civilization, were north of the main district of St. Louis overlooking the river. Several decades of demolition and excavation have left only one mound in the present-day Sugarloaf Mound. The Cahokia Mounds State Historic Site preserve a similar pre-Columbian settlement across the river from St. Louis in Illinois.

Mrs. Whitman continued, "Twilight had nearly gone when we entered the waters of the great Missouri, but the moon shone in her brightness. It was a beautiful evening. My husband and myself went

upon the top of the boat, to take a more commanding view of the scenery. How majestic, how grand, was the scene! The meeting of two such great waters."

For the next several days Mrs. Whitman and her fellow travelers were greeted with "the same beautiful scenery all along the coasts of this mighty river, so peculiar to this western country." Others in the missionary party were Rev. Henry Spalding and his wife Eliza Spalding. Young men of the Nez Perce tribe, Samuel Tamen, Richard Tak-ah-too ah-tios, and John Altz were returning west after Dr. Whitman had escorted them east in the fall of 1835.

The Oregon-bound missionaries were joined by Dr. and Mrs. Benedict Satterlee, sent to minister to the Pawnees. Mrs. Whitman wrote that Mr. Satterlee's wife "has had a very bad cough and cold, which had kept her feeble." The Satterlees escorted Emeline Palmer, the intended bride of Samuel Allis who was to meet them having spent the winter with the Pawnee.

The Chariton reached Liberty Landing on April 7, 1836. At that time Liberty (across the river north of present-day Independ-

dence, Missouri) was the "jumping off" point supplying overland travelers as they set out onto the prairies of the west. Several miles before a steamboat reached the landing a cannon was fired according to the "custom of the river," thus alerting merchants and townspeople of their pending arrival.

The missionaries remained at Liberty for the next three weeks waiting for the arrival of the steamboat Diana, owned by the American Fur Company. During the delay a tent was made from bed ticking to shelter the entire entourage. The conical design was raised with a center pole and staked down with pegs. "Here we shall live, eat and sleep for the summer to come, at least - perhaps longer." Their "beds" were made up of a cloth of "India-rubber" laid on the ground and covered with plenty of Mackinaw blankets. "...when we journey (we) place them over our saddles and ride on them." Dinnerware consisted of a plate, knife and fork, and a tin cup. Their "table" was the ground, with an India-rubber cloth for a table cloth. "It is the fashion of this country to imitate the Turks." Some lay next to the "table" on a blanket, occasionally sitting on a box.

Steamboats were constantly battling low water and "snags" in the river, caused by down trees. When the steamboat Diana

sunk in shallow water from just such a snag, it was delayed for repairs. Anxious to unite with his fiancé Missionary Samuel Allis aboard the Diana, understandably left the Diana, traveling overland the rest of the way to Liberty. He arrived on April 21st and two days later on April 23rd he and Emeline Palmer were married.

Rev. Spalding and several of the men left Liberty with two loaded wagons, horses, mules, and seventeen head of cattle on April 27th. The others would follow on the Diana and join them at Council Bluffs. The wagons crossed the Missouri River at Fort Leavenworth.

At Liberty, Mrs. Satterlee continued to weaken. Death soon followed. As she was being buried the Diana passed Liberty, surprising everyone when the captain refused to take on passengers, even though previous arrangements had been made. Luckily wagons were available and the last of the party finally set out on May 3, 1836, to rendezvous with Rev. Spalding's party to fulfill their destiny on the Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth Kansas on the Violent Frontier*, Executive Director of the National Drovers Hall of Fame. Contact Kansas Cowboy, P.O. Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or kansascowboy@kans.com.

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## Monsanto collaborates with Adjuvants Unlimited to develop first-ever sprayer system cleaner

Monsanto Company has announced that it has collaborated with Adjuvants Unlimited, LLC to develop the first-ever agricultural sprayer system cleaner designed to deactivate dicamba. Adjuvants Unlimited, a well-known developer and manufacturer of technologies for the crop protection industry, will bring this technology to market in 2018 through their industry partners. The new sprayer cleaner technology is unique from other currently commercially available sprayer equipment cleaners as it is based on a chemical process that deactivates certain pesticide active ingredients, including dicamba. This valuable technology is designed to be used within the rinse and cleanout processes specified on current dicamba product labels and best management practices.

"Monsanto developed this product based on grower interest in new tools to help manage the use of multiple herbicide systems, including the Roundup Ready® Xtend Crop System," said Ryan Rubischko, Monsanto dicamba portfolio lead. "This is a new mode of action for sprayer system cleaners and will provide growers an even better experience when utilized as part of the Roundup Ready Xtend Crop System with XtendiMax herbicide with VaporGrip Technology, a restricted use pesticide."

Monsanto has been working with Adjuvants Unlimited and academics over the past few years to test this technology prior to bringing it to market.

"We have been testing this new technology in university trials and it has proven to be very effective at cleaning sprayer systems that have contained dicamba tank mixed with additional herbicide products," said Dan Reynolds, Professor of Weed Science and Hartwig Endowed Chair at Mississippi State University. "We have seen a significant reduction in the presence of dicamba when utilizing this technology as part of the labeled sprayer cleanout process."

Monsanto and Adjuvants Unlimited anticipate that the initial product offering will be announced in the coming weeks and available for the 2018 season, and additional branded products and distributors will be available in the future.

For more information on XtendiMax Herbicide with VaporGrip Technology or the Roundup Ready Xtend Crop System, please visit RoundupReadyXtend.com.

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# AROUND KANSAS



On April 5, 2018, R. Lee Ermey ("The Gunny") passed away from complications of pneumonia, according to his publicist.

After more than 25 years in the business, Gunny was one of the most successful actors in film and television, having

starred in, or appeared in, over sixty feature films.

His numerous roles in feature film include: *Switchback*, starring opposite Dennis Quaid and Danny Glover; *Dead Man Walking*; *Seven*, and *Leaving Las Vegas*. He performed numerous voice-

over roles, which span from *The Simpsons* to *Family Guy* to all three *Toy Story* films. *Toy Story 3* just became the highest-grossing animated film of all time.

Gunny served eleven years in the Marine Corps, two of which were spent as a Drill Instructor at the Marine Corps Recruit Depot in San Diego. Gunny arrived in Vietnam in 1968 and spent 14 months attached to Marine Wing Support Group 17. He did two tours in Okinawa. Rising to the rank of Staff Sergeant, he was medically retired for injuries received.

Using his G.I. Bill benefits, he enrolled at the University of Manila in

the Philippines where he studied drama. Francis Ford Coppola was filming *Apocalypse Now* in the area and cast Ermey in a featured role. Thus, an icon was born.

In 2002 he received an honorary promotion to Gunnery Sergeant (E-7) by Commandant James L. Jones, becoming the first retiree in the history of the Marines to be promoted.

Gunny hosted his own show for the History Channel, called *Mail Call*, which ran for eight seasons and 100 episodes. It focused on military technology past, present, and future. His most recent show *Lock N' Load with R. Lee Ermey* on

the History Channel can now be seen on H2 and History International.

In late October of 2013, R. Lee Ermey released his new book, *Gunny's Rules: How to Get Squared Away Like a Marine*, part self-help, part autobiographical, peppered with stories from his interesting life in the Marine Corps and interesting stories of the making of Stanley Kubrick's *Full Metal Jacket*.

Gunny was born March 24, 1944, in Emporia. His manager said, "It is extremely difficult to truly quantify all of the great things this man has selflessly done for, and on behalf of, our many men and

women in uniform."

Gunny was buried in Arlington National Cemetery with full military honors. Semper Fi, Gunny, Semper Fi.

\*\*\*\*\*

I never tire of hearing how folks love reading *Grass and Grain*. The latest fan encounter occurred at Council Grove when Doug Sharp introduced me to his dad, Jim, from Manhattan. Jim is a long-time reader and was happy to meet a columnist. Jim's daughter-in-law, Pauline, is a member of the Kaw Nation and long-time friend. Was wonderful seeing the Sharps!

Contact Deb Goodrich at [author.debgoodrich@gmail.com](mailto:author.debgoodrich@gmail.com).

## TPP – a glimmer of hope for ag trade?

There may finally be some good trade news for U.S. agriculture following the recent escalation in a threatened tariff trade war with China and ongoing uncertainty in the final outcome of current "renegotiations" of the North American Free Trade Agreement (NAFTA).

Ironically, it rests in the possibility that the Trump administration is considering rejoining the Trans-Pacific Partnership (TPP), a 12-country trade agreement that President Trump pulled the U.S. out of in the first week of his presidency in January 2017, according to Michigan Farm Bureau livestock specialist Ernie Birchmeier.

The TPP, finalized in February 2016 but not ratified by the U.S. before Trump withdrew the United States' signature from the pact, is now the Comprehensive and Progressive Trans-Pacific Partnership (CPTPP) and involves the other 11 original TPP countries.

"Ratification of the CPTPP is expected this spring, and the trade partners could consider adding new members not long after," Birchmeier said. "There are few differences between the TPP the U.S. signed and the CPTPP, so if the U.S. were to become a member, it would be viewed as a significant win for U.S. agriculture."

According to the American Farm Bureau Federation's projections under TPP, annual net farm income would have jumped by \$4.4 billion, driven by an increase of direct U.S. agricultural exports of \$5.3 billion per year upon full implementation of the agreement. It is estimated that increased market prospects for U.S. farmers would have added more than 40,100 jobs to the U.S. economy.

Eliminating tariffs and other barriers on United States' agricultural products going into countries party to the CPTPP – Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore and Vietnam – would have increased trade for a range of U.S. agricultural products, including beef, pork,

fruits and nuts, vegetables, soybeans, poultry, dairy, rice, cotton and processed food products.

"It's critical to remember that CPTPP is a multi-lateral agreement intended to create high-quality rules and market access for all of its members," Birchmeier said, adding that, other member-countries are already negotiating and implementing bilateral agreements without waiting for the U.S. to complete action.

"U.S. failure to join CPTPP will not see our trade situation stay the same, but will actually lead to additional declines in net exports and desperately needed market share in important markets," he said.

### CPTPP Projections in the U.S.

U.S. beef and pork exports are expected to be \$1 billion and \$940 million higher, respectively.

Livestock receipts are projected to be \$5.8 billion higher with approval than without.

Net farm income is projected to be \$4.4 billion higher.

U.S. farmers are expected to add more than 40,100 jobs to the U.S. economy.

Net trade is projected to rise for rice, cotton, beef, pork, poultry, butter, cheese and non-fat dry milk.

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tea pot; pink/ green glassware; 3 crucifix; rosary beads; approximately 20 wooden lures; tackles boxes & various fishing equipment; Nintendo controllers; various silverware; DU deer head light; Franklin Mint Harley Davidson plates & stands; Mount Rushmore decanter; peck & bush-el basket; Hot Ash vacuum for wood stoves; cloth covered chest 5"; antique books; various glassware & dishes; vintage sewing items; copper lamp, homemade; various wooden boxes & items; "Man of War" decanter; linens & dollies; vintage 1933 wedding dress; quilts; various tins; Ford Mustang prints; Global guitar; numerous other primitives & collectibles.

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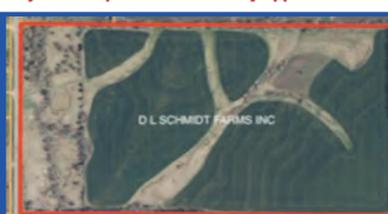
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Page 8 Grass & Grain, May 1, 2018

# In first-of-its-kind meeting, those who use commodity futures come together with economists and government officials

In the frenzied world of commodity-futures markets, gone are the days of "open outcry" — men in colorful jackets waving their hands and shouting wheat futures orders. Much faster, electronic trading is one of the many changes to the market landscape in recent years.

Some of those changes have posed challenges for farmers and livestock producers who use futures to manage risk, for merchants and traders who

use futures for commerce, and for government officials who regulate the markets as well as economists who study them.

The Center for Risk Management Education and Research, based at Kansas State University and led by agricultural economics professor Ted Schroeder, worked with the Commodity Futures Trading Commission to bring agricultural producers, federal regulators, brokerage firms, commod-

ity merchants, elected officials, CFTC regulators, market institutions, and economists together recently in Overland Park.

"We had 370 attendees, with more on a waiting list," Schroeder said, noting that he believed it was the first conference specifically designed to bring all involved parties together to discuss what's working and what isn't for those who use futures to manage risk and lay the groundwork for any changes that should be implemented.

"As we look at the ag commodities, there have been so many structural changes, such as high frequency electronic trading, plus who's using these markets and how, both domestically and globally, they are changing. The need is greater than it's ever been to be aware of the challenges," he said.

What's coming out of the conference, Schroeder said, is a set of priorities addressing what should be changed or investigated in the near term. The result

could involve changes in CME Group futures themselves, changes in oversight by the CFTC or how those who use futures contracts manage their positions.

"The need for research became quite apparent," Schroeder said. "By the time we left, CFTC (officials) were already saying that they wanted to do it next year and that Kansas State University 'needs to be our partner.'"

Kansas senators Pat Roberts and Jerry Moran provided policy updates. USDA Undersecretary Bill Northey and John Floros, K-State dean of the College of Agriculture and director of K-State Research and Extension, as well as CFTC Commissioner Giancarlo addressed attendees.

Schroeder said it was helpful to get people together face to face: "Sometimes market regulators in D.C. need to get out of D.C.; colleagues on campus need to get away from their offices on campus; ag industry participants need to get away from the farm or their trading desks. You couldn't have

done this kind of event via webinar."

One of the recent challenges in agricultural futures is the lack of price convergence in futures markets with the underlying cash market, said Art Barnaby, agricultural economist with K-State Research and Extension. Convergence is the movement of the price of a futures contract toward the spot price of the underlying cash commodity as the delivery date approaches, but in some cases, convergence has not been occurring in recent years.

"Convergence is required for cooperatives, grain elevator hedges, farmer hedges and crop insurance claims to work properly," Barnaby said. "Without convergence, there is no connection between futures and cash markets, and grain futures markets are not likely to survive in the long run without a reliable basis relationship with local cash prices."

Conference participant, Michael O'Dea of INTL FCStone LLC, said many of his customers are concerned about the di-

rection of futures markets and wanted to voice their thoughts to the CFTC. INTL FCStone is a sponsor of Center for Risk Management Education and Research (CRMER) at K-State.

O'Dea, who has spent 35 years in the grain business — 32 at INTL FCStone — said he has several large customers in Kansas, including independent and co-op grain elevators, plus the third-largest flour miller in the U.S., and several livestock feeding operations.

"They all use the futures market for price discovery and to hedge off risk associated with buying and selling grain," he said.

Some concerns, he said, were about high-speed trading and a practice called spoofing, a request to buy or sell futures without actual follow through, plus order flow and liquidity in the markets. Other concerns involved block trading, privately-negotiated trades outside the public market, as well as the lack of funding for the CFTC to carry out oversight of futures markets.

"Big players and the CME can dictate market access, execution and participation right now," O'Dea said, adding that he and colleagues in the grain trade now will watch for follow-through action on the issues raised.

With 30 years in the grain business, Ed Prosser said cattle and grain businesses rely on futures markets to avoid or transfer risk to other willing parties.

"The effectiveness of that transfer, in large part, determines the success of those businesses," said Prosser, who has served as the chief trade officer for Gavilon and is the chairman of K-State's CRMER advisory council. "With the recent move to electronic trading, the behavior and participants in those futures markets has been changed. The producer and end users of commodities have particular expectations of how these markets should work, and the conference was an opportunity to give the CFTC our side of the story."

The CFTC used the conference as a listening session on agricultural futures, Prosser said, noting that specific recommendations were made by traditional hedgers on how to make the markets more effective for them. They included suggestions on commitment of traders reports, convergence of corn, soybeans and wheat, and the way trades are matched by computers.

"Maybe the most encouraging of all was that the (CFTC) chairman pledged to reconvene the conference in a year to allow the hedgers to comment on the progress that was made," he said.

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## ESTATE AUCTION

**SATURDAY, MAY 12, 2018 — 10:00 AM**  
2728 Ann Ct — LAWRENCE, KANSAS  
From 23rd & O'Connell Rd. South to 28th Turn West to Auction!  
**WATCH FOR SIGNS!!**

**CAR**  
1999 Ford Taurus SE Car 4 door, auto, 176K, One Owner!

**SEWING**  
20+ Handmade Quilts/Afghans; dollies/lace; fabric; yarn; Singer Sewing Machine EK949262 w/ Buttonholer & Cherry Cabinet; portable Singer Sewing Machine; many sewing items! Marjorie was an avid sewing/quilt maker in the area!

**COLLECTIBLES, HOUSEHOLD, MISC.**  
Liberty Memorial High School Ladies Jacket; Military uniforms; 2 Dg. County Bank LHS Football Helmet Banks; Half-Pint bank; Cow Bells; Pickle Jar w/ handle; miniature cast irons; **1950-60's Toys:** Hubble Orange Stake Truck, Hubble tractor & manure spreader, True Scale Tractor w/loader/sickle mower/2 bottom plow/manure spreader, Farmall 1206 Turbo Tractor, Lesney Matchbox 1/64th Toys; Air Express Red Wagon w/metal wheels!; Lone Wolf picture; 1928 Little Black Sambo book; 100+ Comics Gold Key/Dell, Roy Rogers, Gene Autry, Dwight D. Eisenhower, Lassie, Lassie, Walt Disney, Mickey Mouse 25th Ann., Richie Rick, Pink Panther, etc.; Golden Comic Digest; Charles M. Schulz books; PEP pins; 45 Records; Dino, Deputy Dog, Captain Kangaroo, Country Western; West Germany cuckoo clock; walnut cracker; McCoy Beagle cookie jar; Humpty Dumpty cookie jar; black amethyst vase (Flory Family); stoneware milk pitchers; oil lamps; Delf items; Currie Ives Early Winter dishes; Fenton/Carnival/Clear glassware of all kinds!; enamelware; Maple Bassett Mid-Century bedroom suite; Nichols & Stone Maple Dining Table w/matching chairs; Maple china cabinet; oak chest drawers; oak dry sink; plant stands; book shelves; Double Recliner Couch w/matching single recliner; end tables; Sentry 1100 safe; 32" flat screen TV; bentwood chairs; Emerson console radio; small appliances; household decor; Mantis small tiller; garden tools; **numerous items too many to mention!**

**AUCTION NOTE: Very Clean Well Maintained Items! Concessions: Lone Star Church of the Brethren.**

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# AUCTION

**SATURDAY, MAY 12, 2018 — 10:00 AM**  
3500 NW ROCHESTER — TOPEKA, KANSAS  
**GUNS, AMMO & RELATED ITEMS SELL FIRST AT 10:00 AM**

**RIFLES**  
SKS model 15; Universal M1 Carbine; M1 Garand Tanker Winchester; Springfield Armory M1A1; M1 Garand Springfield; Mosin Nagant M38; Yugo SKS 59/66; Remington 710, .270cal.; Mosin Nagant Type 53; Winchester 9422; M1 Carbine Winchester; Russian SKS; Mosin Nagant M91; Winchester 90; H&R 12 ga single; Iver Johnson 410ga; Remington Wingmaster 870, 16ga shotgun; Olympic Arms AR15.

**PISTOLS**  
Springfield Armory XP 40 cal., laser, 5 mags; Taurus 9mm PT 92, 2 mags; Norinco 1911 A1 pistol, 45ACP, 2 mags; Colt Defender series 90, .45 ACP, 2 mags; Colt 9mm All American AM2000, 2 mags; Ruger 22 long automatic pistol, 2 mags & holster; Norinco TT-Olympia 22 LR, 3 mags; Slavia 25 cal., 1 mag & holster; FEG model 74, 32 ACP, 2 mags & holster; Beretta 21A, 22 cal. LR, 3 mags; Walther PP 32cal. ACP, 3 mags; Buffalo Scout 22LR with 22 mag, cylinder 6-shot revolver; Smith & Wesson .357 mag, model 686 SS, 4" bbl; Ruger GP100SS, .357 mag SS 6" bbl; North American Arms Guardian 32 ACP, 3 mags, holster & case; Glock Model17, 9mm, 2 mags; Glock 40 S&W, model 22, 3 mags; Phoenix Arms model HP 22 LR SS, 5 mags with HP "2 in 1" barrel extension; S&W 38 special, model 15-4 with holster; Springfield Armory 1st Generation 4-14X56, gov't model scope; 7.62mm with M1A1 mount, scope; M1 Carbine scope Simmons Whitetail 4X32 with mount; M1 Carbine folding paratrooper after-market stock; lots & lots of ammo; Reloading supplies—primers, powder, brass etc; Reloading equipment, RBCS, LEE, dies, lube & sizer, molds, etc; lots of various pistol cal reloads; Factory ammo 7.62X54, 7.62X39, .308, 30-06, 270 cal pistol cal, .25 cal; Factory pistol cal-.25 cal, .32 ACP, 9mm, 40 S&W, .45 ACP, 38 SPL, .357 mag; 40" American Security Products co gun safe; 30" American Security Products Co. gun safe. Queen 3pc bedroom suite with pillow top mattress; 2 Lazyboy recliners; King bed with brass head & foot board, Tempurpedic mattress & platform; curio cabinet; Queen sleeper sofa; Oak armoire; dresser; night stand; Grandfather clock; Maytag washer (1490); Maytag dryer (D7600); Montgomery Ward chest freezer (FFT-8083); flat screen TV's; corner TV stand; oak office desk; Oak filing cabinet; office chairs; Oak shelving units; recliners; sofa table; end tables; coffee table; Oak 3-door bookcase; dining table with leaf and 4 rolling chairs; Etageire; child's roll top desk; child's rocker; child's adjustable craft table with tilting top; glass top patio table & 4 swivel chairs; wood patio chairs; card table & 4 chairs; set of 4 TV trays & caddy;

Eddie Bauer King size goose feather down comforter & cover; Schwinn Air-Dyne with pulse meter; Sears Proform treadmill; dehumidifier; Sony compact disc player; Sansui Home stereo system; portable CD player; DVD recorder & VCR; digital stream TV analog converter; self-propelled Wind Tunnel upright vacuums; fans; paper shredder; Kitchen Aid stand mixer (cobalt); chiming wall clock; quilts; luggage sets; size 10 Wedding dress with hats & shoes; pictures; frames; 19 Precious Moments figurines; lamps; fireplace tools; Faux fur jacket; 3 ring binder machine; paper cutter; office supplies; dishes; cookware; household items.

John Deere 140 H3 tractor with 48" mower deck & hydraulic front blade; Craftsman 5HP chipper shredder; Honda 80 snow blower; Wards roto-tiller; Honda HT 3813 lawn mower with bagger; 2 Honda HR 214 push mowers; pull behind garden cart; Briney disk plow; lawn aerator.

**COINS: (SELL APPROX. 12:00 NOON)**  
Proof sets-1972, 3-1982, 3-1983, 3-1984, 3-1985, 2-1986, 3-1987, one each 1989-2010; Mint sets 1965, 3-1981; 1909-1940 Lincoln head cent; 1946 Roosevelt dime; 1946-1959 Washington quarter set; 1992 Denver Ming souvenir set Bureau of Engraving & Printings \$1.00 bill set.

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# Joseph Loganbill art exhibit opens with reception at Pioneer Bluffs

“Art has always been a thrilling experience to me,” says artist Joseph Loganbill of Newton. “As a boy, I drew whenever I could. I drew in the car waiting for mom, trying my best to copy automobile designs, and later, sketching landscape ideas.”

“Way Out West” is a special solo exhibition by Loganbill in the 1908 home at Pioneer Bluffs, a historic Flint Hills ranch near Matfield Green. The opening reception is 3:00 p.m. Saturday, May 5. This is a unique opportunity to visit with Loganbill while enjoying the exhibit, wine, and appetizers.

The reception on May 5 follows a 2:00 p.m. performance by the Woodwind 5



of the Newton Mid Kansas Symphony, held in the loft of the 1915 barn at Pioneer Bluffs. The Woodwind 5 musicians will join Loganbill for the reception.

There is no cost to view Loganbill’s exhibit, attend the reception, or the concert. Donations are gratefully accepted.



“I strive in my work to depict space, light, and emotion, in a kind of dance back and forth between intellect and feelings,” continues Loganbill. “This is the realm where craft ends and art begins, becoming another language for our human experience.”

Visitors will discover Loganbill’s art resonates uniquely within each individual. “Way out West” is on exhibit in the 1908 home at Pioneer Bluffs now through June 23. The home is open noon to 5:00 p.m. Fridays and Saturdays, and by appointment.

Also at Pioneer Bluffs is the work of featured Prairie PastTimes wood artist Lyle Kohlmeier,

along with featured photographer Dave Leiker. A gift shop includes autographed books by local authors.

More information can be found at pioneerbluffs.org, on Facebook, or contact Executive Director Lynn Smith at lynn@pioneerbluffs.org or (620) 753-3484.

Pioneer Bluffs is a non-profit organization and prairie education center, dedicated to sharing the heritage of the Flint Hills. It is on the National Register of Historic Places, located one mile north of Matfield Green or 14 miles south of Cottonwood Falls on Flint Hills National Scenic Byway K-177.

# Around the round – highly versatile, the beef round rises above the grinder

By Jill Seiler

Imagine your job is to sell beef as a menu solution, beyond the classic presentations of prime rib, filet mignon, strips and sirloin. Those are known for tender, flavorful and juicy steaks, but also known for hefty price points. Could your job include exploring new cuts and applications from the underutilized round?

It’s not so farfetched, according to presenters from the Certified Angus Beef® (CAB®) brand at its Foodservice Leaders Summit in Napa, Calif., earlier this year.

The 160 beef marketers from CAB partner foodservice distributors and processors who paid to attend the annual educational summit certainly paid attention. After all, they could pay much less for an “end meat” round than any of the middle meats traditionally adorning customer menus. Top sirloin, often listed at the lowest price there, could make way for a new cut procured for \$1 less per pound.

CAB packing director Clint Walenciak admitted the round has not instilled

much sales excitement in the past, but math and knowledge could change that. He noted several cuts such as the eye, inside round, the heel, knuckle and bottom round represent low-cost opportunities.

The company’s slide presentation shared one idea on how to make “knuckle sandwiches” from smoked, slow-cooked and pulled beef from the knuckle.

“Since these items don’t have major premiums on them, you can upgrade to CAB and really increase the quality for customers,” Walenciak said, noting a cut with less marbling would not produce the same satisfaction.

In the bigger picture, selling more of each CAB-accepted carcass as the brand adds more value back to the ranch, he said.

As CAB corporate chef Peter Rosenberg finished preparing shaved steak sandwiches from the eye of the round for a tasting demonstration, Walenciak kept the crowd connected with the economics, detailed examples showing as little as \$1 beef cost for some \$10 to \$12 menu

items.

Less expensive and ready for diverse cookery to make round items interesting, flavorful and tender, he showed pathways to higher profit margins for restaurant customers.

When it was time to sample the beef, the chef waited to see reactions as tasting overcame the bias that it had to be tough.

“Most of the people couldn’t believe that was an eye of round,” he said, “because it was so tender and since it was sliced differently.”

After he presented highlights on such favorites as the Steamship Round, which can feed a crowd of hundreds via a carving station, it was time for teammate Cody Jones to wrap up.

“It’s easy to talk about the middle meats; they’re sexy,” said the CAB executive account manager. “Sometimes we just forget

to talk about the round.”

Its versatility and value have been raising the wholesale cut’s profile, however.

“We want to sell from nose to tail and drive as much value as we can from the chuck to the round,” said Jones, who once worked for one of the foodservice companies represented among attendees. “We make that whole animal worth more if we sell all the cuts for the brand.”

As key strategies, Jones outlined several cultural applications, such as Japanese shabu-shabu, sukiyaki and yakiniku; Korean bulgogi, Hispanic carne asada and German rouladen. He also noted some precooked, value-added products on the market and highlighted uses for the tasty, lean cuts in health care foodservice.

Chef Peter summarized, “Our goal was to show the value of the round other

than in ground beef, to bring it to life so there are plenty of ideas and techniques, and then it will

market itself. The next time these people look at a round, they’ll think past ground beef.”

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# 2018 Omnibus Bill nixes DUNS and SAM requirements

Effective immediately, Natural Resources Conservation Service (NRCS) financial assistance program participants will no longer need a Dun and Bradstreet Universal Number System (DUNS) number, or to register in the System for Award Management (SAM). The Consolidated Appropriations Act of 2018 (2018 Omnibus Bill), signed by President Donald Trump on March 23, eliminated these requirements.

According to U.S. Secretary of Agriculture Sonny Perdue, DUNS and SAM were designed for billion-dollar government contractors, not everyday farmers trying to support their families. These changes help streamline the customer experience of farmers, which is a top priority at USDA, he said.

"This change greatly simplifies the contracting process for our customers and staff," said Acting NRCS Chief Leonard Jordan. "Conservation program participants will

soon receive letters from their local NRCS office with more details."

The exemption does not apply to any current or future agreements or federal contracts with eligible entities, project sponsors, vendors, partners, or other non-exempt landowners or producers.

DUNS/SAM registration is still required for:

Partnership agreements entered through the Regional Conservation Partnership Program (RCPP).

All agreements with eligible entities under the Farm and Ranch Lands Protection Program (FRPP)

Agreements under the Agricultural Land Easement (ALE) component of ACEP.

Partnership agreements under the Wetland Reserve Enhancement Program (WREP) compo-

ment of ACEP-Wetland Reserve Easements (WRE).

Watershed operations agreements with project sponsors.

Emergency Watershed Protection Program (EWP) agreements with project sponsors, including Recovery and Floodplain Easements.

All cooperative, contribution, interagency, or partnership agreements of Federal contracts used by NRCS to procure goods or services.

NRCS advises participants in its programs to ignore any emails, phone calls or other communications from third-party vendors offering assistance for registering in SAMS or applying for a DUNS number.

To learn more about NRCS financial and technical assistance, go to [www.nrcs.usda.gov](http://www.nrcs.usda.gov).

## Kansas cattle on feed up 4 percent

Kansas feedlots, with capacities of 1,000 or more head, contained 2.34 million cattle on feed on April 1, according to the USDA's National Agricultural Statistics Service. This inventory was up 4 percent from last year.

Placements during March totaled 405,000 head, down 17 percent from 2017. Fed cattle marketings for the month of March totaled 400,000 head, down 7 percent from last year.

Other disappearance during March totaled 15,000 head, up 5,000 head from last year.

## Denitrification: a wet weather problem

By Jeri Geren, Diversified Agriculture and Natural Resources agent

Most producers are aware of the impact of nutrient deficiencies on crop performance and how nitrogen plays a very important role in economic returns. The uncertainty exists when nitrogen loss occurs, particularly due to saturated soils. Managing crops for nitrogen loss may be just as important as monitoring nutrient deficiencies.

Nitrogen (N) is a naturally occurring element and exists in the soil system in many forms and may change from one form to another. The Nitrogen Cycle explains the route that N follows in and out of the soil system. There are many ways that N can be lost from the soil system. Denitrification, part of the Nitrogen Cycle, is the term used to define the permanent removal of nitrogen out of both soils and aquatic environments by microbial activity.

Soil micro-organisms need oxygen to survive. When the soils become saturated, there is little room for oxygen between soil particles. When there is enough organic matter to provide energy, some microorganisms can get the oxygen needed to survive from nitrite (NO<sup>-</sup>) and NO<sup>-</sup>. When microbes utilize this oxygen, dinitrogen gas is created in a process called denitrification. These gases are then lost to the atmosphere.

The amount of nitrogen loss is very difficult to predict and depends on many factors. Denitrification is mainly impacted by the oxygen supply in the soil and the microorganisms, but many factors can change either of these components. These can include the soil pH, organic matter, soil temperature, soil type and even factors such as fertilizer application timing, nitrogen source and quantity applied. Significant losses occur when the soils are waterlogged for two or three days.

Denitrification is one way nitrogen loss can occur in a soil system, although losses can also occur from leaching, volatilization, crop removal and soil erosion and runoff. There are many environmental and economic issues that can lead to uncertainty when it comes to producing crops, but having a better understanding of nitrogen in the soil will help to better manage loss.

For more information, contact Jeri Geren, Diversified Agriculture and Natural Resources, [jlsgle@ksu.edu](mailto:jlsgle@ksu.edu), (620) 331-2690.

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## ESTATE AUCTION • For CAROL BANNER

**SATURDAY, MAY 5, 2018 — 9:00 AM**  
627 Market Street — PORTIS, KS 67474

**FURNITURE, DOLLS & more;** lg. crystal jewelry box; vint. perfume bottles; Victorian glass inc. pink ruffled satin vase, pink satin Mt. Washington sugar & creamer, green/gold decorated water set marked Northwood; Fostoria; footed porcelain tea set w/tray; cruets; sugar & creamer sets; vint. jewelry; unusual antique make up lighted vanity; Art Deco metal/marble Flapper figurine; Keralovve Penguin Vase; vintage clothing; vintage aprons, linens, quilts, Day of the Week tea towels, chenille spreads; vint. Christmas; framed pictures inc. Mother of Pearl Bird Pictures, R. Adkinson Fox, Victorian Ladies in fancy frames; Easter paper mache egg candy containers; harmonicas; Austria Moose pitcher; Tins; complete metal vint. camping set; (2) 1800s copper coffee pots; Stanley door knob store display; Hansel & Gretel cookie cutter set in box; wood egg crate; Wagner CI kettle; primitive spice cabinet; blue/white glazed salt box; Metal Remedies store display sign; Camel cigarette sign; Double Weller pottery vase; 1950s red/white bicycle; Halloween Black Cat paper mache box (Germany); lg. stained glass Dragonfly lamp w/inlaid Dragonfly base & MORE!

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## AUCTION

**SATURDAY, MAY 5, 2018 — 10:30 AM**  
Community Building, South Broadway — HERINGTON, KS

**10:30 AM: TOOLS, PATIO & FISHING ITEMS; HOUSEHOLD, FURNITURE, ETC., ANTIQUES, COLLECTIBLES & TOYS, SELLING AT 12:00 NOON - CHEVY PICKUP, GUNS**  
2005 Chevy Silverado LS 1500, Easy 67,000 miles, MUST SEE!

**SELLER: ROBERT E. UTECH ESTATE**  
See last week's Grass & Grain for listings & go to [KSALLINK.COM](http://KSALLINK.COM)

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## CHASE COUNTY GRASSLAND AUCTION

**2,695 ACRES! COTTONWOOD FALLS, KS**  
(Located approximately 8.6 miles SW of town)

**THURSDAY, MAY 17, 2018 — 2:00 PM**

**AUCTION LOCATION:**  
Cottonwood Falls Community Bldg., Swope Park  
COTTONWOOD FALLS, KANSAS

**Property of WHISKEY CHARLIE, LLC**  
Rolling Flint Hills with fantastic range views & vistas.  
★ Pens ★ Good Ponds ★ 3 Spring tanks  
★ Holmes Creek w/deer & turkey.

This is all wrapped up in two pastures with above average fence. Immediate possession to qualified buyer.

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## REAL ESTATE & EQUIPMENT AUCTION

**SATURDAY, MAY 5, 2018 — 10:00 AM**  
MECHANIC/TIRE SHOP, TRACTORS & VEHICLES SELL AT NOON

**AUCTION LOCATION: 1471 NW 180th Street — BURNS, KS**

**SELLER: RAY & LUCILLE ROBINSON**

**AUCTIONEER'S NOTE:** Ray's Farm Service has served the Burns community for many years, Ray and Lucille have decided it's time to slow down and will semi-retire. There are some good usable tractors and vehicles, along with a nice tire machine set up. We will also offer a nice commercial building in downtown Burns, this property offers you a wide variety of options. We look forward to seeing you at the auction!

**PROPERTY ADDRESS:** 107 W. Broadway, Burns, KS 66840

**LEGAL DESCRIPTION:** LOT 130, RGE 5; ORIG, BURNS/St. Francis Cit, commonly called Burns, KS 66840. **TAXES:** \$1,115.62

**DESCRIPTION:** Formerly known as "Arlo's Tire & Supply", this property offers many different opportunities! With 2 over head doors, 3 bays and 1,743 sq. ft., this property could once again operate as a mechanic/tire shop or would make for great storage. There is also a 1 bay car wash on the east, which would need updated, but has the potential to generate additional income. Come and take a look at all the ways this property could work for you!

**TERMS:** Earnest money due at signing of the contract is \$2,000.00 payable to Security 1st Title. Closing will be on or before June 5, 2018 at which time appropriate Kansas Warranty Deed will be given. The cost of the title insurance and the closing fees of the title company will be shared equally by the buyer and the seller. The taxes will be prorated to day of closing. The property is being sold as is, in its present condition, with no warranties or guarantees. Property is not sold subject to financing or inspection. The buyers will need to make their own inspections concerning this property. All information has been gathered from Marion County sources and is deemed reliable but is not guaranteed. All statements evening of auction supersede any advertisements.

**TRACTORS & COMBINE:** 1974 JD 4230 w/ Cab, Diesel, 2wd, 2-hyd, Cab Kit w/AC, Overhaul, Quad Range Trans [#4230H 024137R]; 1970 JD 4020 w/JD 148 Loader, Diesel, 2-hyd, 3-pt, 5020 HD Front End; 19xx IH Farmall 966 w/ IH 2350 Quick Attach Loader, Diesel, Good TA, Newer Injection Pump & Batteries, Recently Serviced [#2510175U010815]; Allis-Chalmers WD-45, Wide Front, Gas; Oliver 7300 Combine [#0S1219]; Oliver 15-ft Small Grain Head; Ford 8N & 9N Parts Tractors, Good Rubber; Farmall B Parts Tractors.

**TRUCKS:** 2003 Ford F-250 FX4, Ext Cab, 4x4, Long Bed, Powerstroke V8 Diesel, Auto, shows 208,414mi; 2000 Chevy 2500 LS Ext Cab, 4x4, 350 V8, Auto, Shows 191,674 mi; 1971 GMC Grain Truck w/ 16-ft Bed, 350 V8, Overhauled, Newer Brakes, 4x2 Trans; 1976 Chevy 1-Ton Grain Truck, 12-ft Bed, Dually, 350 V8; 1970 Chevy C/50 18-ft Swarth Flatbed, 350 V8, 5-speed; 1998 Chevy 2500 Ext Cab, 4x4, 350 V8, Shows 216,974 mi; 1999 Chevy 2500, Ext Cab, 4x4, Not Running (Rods Out), Trans & 4WD OK, No Title; Dodge Dakota, Salvage, Rolled, 318 V8 & 4wd Good; 2 Salvage Chevy C/50 Trucks.

**ATV & TRAILERS:** 2008 Arctic Cat 650, 4wd, Winch, 2,316 hrs; Gooseneck Flatbed w/ 3 Trailer House Axles, Dovetail; 20-ft. Gooseneck Stock Trailer; Combine/Swarth Trailer, 3 axles (1 Bent); Gooseneck Stock Trailer, 18-ft (needs repair); Several Hay Wagons & Misc Trailers; Shop Built Swarth Trailer.

**EQUIPMENT:** Hutch Master Rolling Offset Disc Plow 12-ft; M&W Hydra-Guay Dynamometer P-355 (up to 100-hp); Huskee Model 165 Gravitay Wagon; JD 7-ft Sickle Mower; 3-pt Post Hole Digger; Vermeer 604J Twine Baler [#1VRA121T9H1000249]; 3-pt Spring Tooth; 4 Bottom Plow 3-pt; JD 4-Row Planter; Bush King 4-ft, 3-pt Rotary Mower; 3-pt Back Hoe Attachment; Engine from a Hesston 420; Front & Wheel Tractor Weights; 250-bu Upright Grain Bin; 3-pt Boom; BMB 72" Estate 72 Finish Mower; Old-style Deweeze, Slide On; Quick Attach Bale Spear; Pickup Bed w/ Lift Gate; Trans & Transfer Case From 1975 Chevy; 250-Gal Spray Tank on Trailer (parts); Bale Loader for Truck; Parts BMB 10' Rotary Mower; Antique 2-Row Trailer; Windmill Base (Bent); Drag Harrow on Trailer; Stock Rack; Belt Harvest Handler; Antique Buzz Saw; JD Hay Rake (Won't kick out of gear); Allis Hay Rake; Overhead Fuel Tanks; JD 4010 & 4020 Cab; Misc Scrap.

**CORGI TIRE MACHINE, TOOLS & MISC, COLLECTIBLES & HOUSEHOLD.**

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## ESTATE AUCTION

**SATURDAY, MAY 12, 2018 — 10:00 AM**

**LOCATION: 4464 Smolan Rd., take Smolan Rd. Exit 86 off of 135, go 4 mi. to Smolan, then 1/2 mi. West. SMOLAN, KANSAS**

**JOHN DEERE COLLECTOR FARM TOYS NEW IN BOX:** JD 1937 Model B, JD 1948-52 MT, JD 4020 w/237 Corn Picker, JD 3020, w/4 Bottom Plow, 9750 ST5 Combine, JD 40 Crawler, JD 4000 Tractor, JD 720 Row Crop, JD 8200 Series, JD 4 Wheel Drive w/ Disk, JD 8760 4Wheel Drive, JD 1937 Model B, JD Model G 1938-53 Narrow Front, JD Row Crop Farm and Country, JD Model E Engine, JD Model D Tractor w/Lugs, JD 4440, JD 1915 Model R Waterloo Boy, JD 1937 Model BR w/Flair Wagon, JD 1937 Model G, JD 1935 Model BR, JD 1953 70 Row Crop, JD 8200 Tractor, JD Standard 1931 GP Tractor w/ Flair Wagon, JD 1958 Model D, JD 1953 Model D, JD 1934 Model A, 1934 Model A, JD Model R, JD Model M, JD Utility Tractor w/Loader, Model A Fox Fire Farms, JD Barge Wagon, Waterloo Boy Tractor, Case L Tractor, Farmall F 20. **GUNS:** 2 Winchester Model 97 12 ga. Shotguns. **OLD, ANTIQUE & COLLECTIBLES:** Japanese binoculars, Seafaring binoculars, railroad screwjack, insulators, Dazey butter churn, bread dough kneader, egg basket, cast iron skillets, canning jars, bottles, 2 crocks, whiskey jug, washboard, copper boiler, 2 JD pedal tractors, JD 2 whl. wagon, Fraternity paddles, land measuring wheel, 2 ammo boxes, pop gun, hay hook, license plates, sad irons, handsaws, IHC & McCormick tractor tool boxes, Delta signal lamp, tin toys, 3 military helmets, Radio Flyer wagon, ice skates, cast iron wood stove, WWII cast iron grill, Maytag wringer washer, cap guns, trunks, ACCO Seed signs, wet stones, tobacco pipes, International cream separator, 1 gal. oil measures, hand scythes, RCA tabletop radio, Marx Train set, Edison Victrola, cast iron toy threshing set, tin lunchbox, kerosene lamp, Singer treadle sewing machine, pressure cooker, cast iron cookware, sheet music, Nancy Drew books, lg. salt & pepper collection, 13 NEW in Box Franklin Mint John Deere pocket knives, glass bridal basket, Keystone movie camera, several pocket watches, Craftsman circular saw w/case, brown whiskey jug, milk bottles, 3 cast iron mechanical banks, 2 sheets of Eisenhower 6 cent stamps, 1 sheet Man on the Moon 10 cent stamps, 3 pcs. Roseville pottery. **FURNITURE, HOUSEHOLD, KITCHEN:** Victorian upholstered couch, oak buffet cabinet, oak secretary desk, end table, entertainment center, 3 pc. bedroom set, full size bed & dresser, William & Rogers silverware set, hat pins, Bavarian china set, glasses, dishes, kitchen utensils, wall hangings, teacup collection, glassware, several quilts & blankets, floor lamps, vases, collector plates, wooden rocker & loveseat, 2 silhouettes, doilies & linen, handkerchiefs, commemorative plates, decorative plates, floor lamps, salt dips, quilting squares, Buffet Powell Saxophone, parlor table. **TOOLS, SHOP EQUIP., LAWN CARE:** Hand tools, 12" Makita chop saw, gas cans, pipe wrenches, hyd. jacks, Husqvarna weed eater, JD battery charger, new paint gun, 6' scaffolding, Moto Shop jigsaw, toolboxes, 6", Makita hand grinder, Tractor Supply alum. truck toolbox, several metal shelves, propane bottles, rubber tired hose reel, jack stands, hyd. press, 2 push mowers, Kobalt wheelbarrow, North Star elec. lawn sprayer, Heckendorn 36" lawnmower, JD Mdl. 68 riding lawn mower, Handy Man jack, fire extinguishers, 4 buckets of scrap lead, Die Hard battery charger, picks, shovels, rakes, pry bars, several wooden tables & benches, turkey fryer, brace & bit, 2 boxes of Irwin wood bits, New Titan airless paint sprayer.

**AUCTIONEER'S NOTE: Dolly & her late husband Mannie have a wonderful lifetime collection of items. They bought quality items & kept them in wonderful shape. This will be a big sale. This is just a partial listing of the items for sale. We will be adding items & pictures to the website as they are unpacked.**

**TERMS:** Cash or check with proper ID. Nothing removed until settled for. Not responsible for accidents. Statements made day of sale take precedence over any other printed material.

**SELLERS: DOLLY & MANNIE NELSON**

Sale conducted by PILSEN PACKRATS AUCTIONS  
Lincolville, Kansas • Joe Vinduska, Auctioneer.

See us online at [pilsenpackrats.com](http://pilsenpackrats.com), [auctionzip.com](http://auctionzip.com) or [FaceBook.com](http://FaceBook.com)  
Call 620 323 0249 or 620 924 5630 for info

**grassandgrain.com**

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## 317.5 ACRES OF FLINT HILLS GRASSLAND IN GREENWOOD CO. AUCTION

**TUESDAY, MAY 8, 2018 — 7:00 PM**

**AUCTION LOCATION: Olpe Chicken House — OLPE, KS**

**SELLER: DAVID M. FARTHING FAMILY TRUST**

If you are looking for grass with good water, you will want to take a look at this pasture. All the characteristic you like are wrapped up in one package, cattle gains, low maintenance, scenic views, wildlife ... it's all here!

**Property located** west side of Madison, Ks at the intersection of KS-99 & 365th, go west on 365th for 3.5 miles to T Rd, go north on T Rd and continue for .1/4 mile to 370th, turn west on 370th and continue for 1.5 miles to R 50 Rd, turn north go 1 mile to the SW corner of the property on the east side of the county road.

**See all at [GriffinRealEstateAuction.com](http://GriffinRealEstateAuction.com) or call for salebill.**

**Griffin & Auction Real Estate Service LC**

**RICK GRIFFIN** Broker/Auctioneer  
Cell: 620-343-0473

**CHUCK MAGGARD** Sales/Auctioneer  
Cell: 620-794-8824

305 Broadway, Cottonwood Falls, KS 66845  
620-273-6421 • Fax: 620-273-6425 • Toll Free: 1-866-273-6421  
In Office: Nancy Griffin, Heidi Maggard  
Email: [griffin123r@gmail.com](mailto:griffin123r@gmail.com) • [www.GriffinRealEstateAuction.com](http://www.GriffinRealEstateAuction.com)

## EQUIPMENT AUCTION

**SATURDAY, MAY 12, 2018 — 10:00 AM**  
PREVIEW: FRIDAY, MAY 11 • 1-5 PM

**AUCTION LOCATION: 2274 US 50 — FLORENCE, KS**

**Property of ROGER WILLIAMS**

**AUCTIONEER NOTE:** Roger has kept most of his equipment inside. This is a clean used equipment auction. **There are few little items so be on time.**

**LOCATION:** Approximately 3 miles southwest of Florence, Ks on Hwy 50 to the auction site on the north side of the highway.

**TRACTOR:** Ford 846 Versatile, 4 Hyd, 6,155 hrs 25% rubber, 18.24 R38, Model 846-93.

**TRUCKS:** 1984 International Cab Over Model 00F9670 Tires 11 R 24.5, shows 231,545 miles; 1972 C50 Chevy, 350 eng. 16 ft. Bed with 52 in sides, with fill auger, trailing axle, 4x2 trans, 8.25 x20 tires, shows 43,975 miles.

**DRILL, BALER, TRAILERS & EQUIPMENT:** Great Plains 3S-4000 HD-6375 Drill 40 ft. minimum till Drill; NEW HOLLAND BR 7090 with net wrap [Y8N040367]; PJ 24 ft. Gooseneck flatbed w/tandem axle ST23/85R16 R 85-16 tires; Grain Cart Unferverth Brent 420 w/ 20.8 R 38 Tires, B&B 36 ft. header trailer SN [#B1708102]; 8 in Auger Approximately 60 ft. with swing away auger S861-202985; 28 ft IHC 490 Disc, 20 in frt, & 18.5 rear; JD 960 32 ft. Field Cultivator; Hutchinson 8 in. Hopper Auger; JD 825 6 row Cultivator; Garfield 12 ft. Box Blade; JD 1508 Batwing Mower; Rhino 3 pt. Posthole Digger w/14 in Auger; JD pallet forks, JD 653 A Rowhead, JD 642 Rowhead, Hesston High Clearance 12 Wheel rack; Ford Plow 4'x16' Mordige 8770 Grain Dryer, 500 Gal Storage tank, used for water, 200 gal Slide in sprayer w/ 5 hp B&S, Pump Jack w/ Honda 160 motor, Shop Built Wire Roller, Small Tongue & axle, 2 cake feeders 12 00 lbs (approx.) 2 Schaben 4 wheeler 12 volt sprayers, 3 pt. slip, Delta Tool Boxes, Approximately 30 cattle panels & 9 ft. on a trailer, Approximately 7-20 ft continuous cattle panels, Misc. guard rails, Easy flow, Banjo Mixer tank for sprayer.

**Mark Twain Boat,** Chevy 6cyl inboard with approx. 470 hrs.

**TERMS:** Cash, approved check or credit card with 4% processing fee on all credit card transactions. Bank Letter of Credit or pre-approval from the auction company required to take large equipment home day of the auction, otherwise equipment will remain on the premises until funds are cleared. All statements made day of auction take precedence over advertisements. The auction company has represented the serial numbers and years of equipment to the best of our ability. It is still the buyer's responsibility to inspect the equipment and check the serial numbers to confirm year, model, description and condition, all equipment is offered in "as-is" condition. Owners and auction company not responsible for accidents or theft. Nothing removed until settlement has been made.

**Griffin & Auction Real Estate Service LC**

**RICK GRIFFIN** Broker/Auctioneer  
Cell: 620-343-0473

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305 Broadway, Cottonwood Falls, KS 66845  
620-273-6421 • Fax: 620-273-6425 • Toll Free: 1-866-273-6421  
In Office: Nancy Griffin, Heidi Maggard  
Email: [griffin123r@gmail.com](mailto:griffin123r@gmail.com) • [www.GriffinRealEstateAuction.com](http://www.GriffinRealEstateAuction.com)

# Grass & Grain Area Auctions and Sales

Land for sale by bids — (bids due May 22 by 3 PM) — 133.8 acres m/l of Riley County farm land. www.farmersnational.com. Auctioneers: Farmers National Company, Fred Olsen, AFM/agent.

April 30 — Combines, headers, antiques, farm equipment, tractors, truck, pickup, 4-wheeler, tools & more at Portis for Dean & Carol Weeks. Auctioneers: Wolters Auction and Realty.

May 3 — Pickup, mower, tools, antiques, collectibles, furniture & appliances, kitchen & more at Salina for Sil & Esther Weber. Auctioneers: Baxa Auctions, LLC.

May 3 — 315.5 acres m/l of Flint Hills grassland with improvements in Chase County held at Cottonwood Falls for property of the Widler Family. Auctioneers: Griffin Real Estate & Auction Service, LLC.

May 5 — Antique furniture, collectibles, guns, ammo, shop tools, lawn & garden items & more at Hutchinson for a large 5 family estate auction. Auctioneers: Morris Yoder Auction.

May 5 — Furniture, dolls, antiques, primitives, collectibles & more at Portis for Carol Banner. Auctioneers: Wolters Auction and Realty.

May 5 — Truck, trailers, mowers & equipment, mower & UTV related items & misc. at Hesston for Excel Industries, Inc. Auctioneers: Van Schmidt Auction.

May 5 — 41 acres m/l of McPherson County cropland held at Canton for S. Kent Thompson. Auctioneers: William Crane.

May 5 — Real Estate (2BR house, outbuildings), furniture, household, piano, collectibles, garden items & more at Manhattan (Keats) for Virgil L. & Mildred N. Murphy

Trust. Auctioneers: Ruckert Realty & Auction.

May 5 — Stainless steel, mid steel, aluminum, brass, copper of all shapes & sizes, misc. office furniture, antique drill presses, misc. supplies & tools at Manhattan for Custom Cut Metal. Auctioneers: Crossroads Real Estate & Auction, LLC.

May 5 — Real estate (Mechanic/Tire Shop, formerly known as "Arlo's Tire and Supply") & equipment at Burns for property of Ray & Lucille Robinson. Auctioneers: Griffin Real Estate & Auction Service, LLC.

May 5 — Tractors, truck, machinery, mower, tools, shop items & household at Silver Lake for Duane (Hap) & Marcia Anderson. Auctioneers: Gannon Real Estate & Auctions.

May 5 — 2005 Chevy 2500HD Silverado truck, farm equipment, cattle equipment, tools, scrap iron, household & more at Burlingame for Thomas & Mary Quaney Estate & Family. Auctioneers: Wischropp Auctions.

May 5 — Vehicles, tractors, trailers, farm machinery & equipment, antique equipment, feeding equipment & misc. at Dwight for Don Eisenhut Estate & Others. Auctioneers: Brown Real Estate & Auction Service, LLC.

May 5 — Machinery, antiques, household, collectibles, farm items & more near Alma for Dan & Dorothy Moege. Auctioneers: Murray Auction & Realty.

May 5 — Antiques, collectibles, household goods & misc. at Beatrice, Nebraska for property of numerous Lincoln Estates. Auctioneers: Jurgens, Henrichs, Hardin.

May 5 — Tools, patio & fishing items, household, furniture, antiques, collectibles, vintage toys, guns, 2005 Chevy truck & more at Herington for

Robert E. Utech Estate. Auctioneers: Bob Kickhaefer.

May 5 — Large Doll collection, doll furniture, furniture, antiques, collectibles & electric pickup at Syracuse for Housholder Family. Auctioneers: Berning Auction, Inc.

May 5 — Pickup, car, lawn equip., sporting items, carpenter & mechanic tools, household, antiques & more at Belleville for Jerry & Pat Kopsa. Auctioneers: Novak Bros. & Gieber.

May 5 — 1931 Model A couple, fully restored; 2008 Ford Range pickup (low miles), tools, high quality modern furniture, collectibles & more at Minneapolis for Alan Windhorst. Auctioneers: Reynolds Auction Service.

May 5 — Lawn equipment, shop tools, collectibles, household, misc. at Ozawkie for Mrs. (Dave) Marge Whipple. Auctioneers: Elston Auctions.

May 5 — Antiques, household, collectibles, car, trucks, farm machinery, tools & more at Republic for Darrell & Marilyn Birrell Trust. Auctioneers: Thummel Real Estate & Auction, LLC.

May 5 — Tractors, combine, trucks, grain cart, antique tractor, pickups, cars, wagon parts, antiques, shop, misc., camper, 3-wheeler, trike & more held near Sylvan Grove for Don Hunter Living Trust. Auctioneers: Meitler Auction Service.

May 6 — Guns, antiques, collectibles & misc. at Council Grove for Private Seller. Auctioneers: Hallgren Real Estate & Auctions, LLC.

May 6 — Cars, trucks, motorcycle, UTVs, boats & accessories & much more at Wamego for benefit auction for Wamego First United Methodist Church to benefit the youth pro-

gram. Auctioneers: Crossroads Real Estate & Auction, LLC.

Online only Real Estate — Opens May 7 and starts to close May 14 — 80 acres Douglas County cropland, waterways, creek and grassland at www.dlwebb.com for Schmidt Farms. Auctioneers: Dave Webb, Webb Realty Auctions & Appraisals.

May 8 — 317.5 acres m/l Greenwood County, KS rolling Flint Hills grassland held at Olpe for property of David M. Farthing Family Trust. Auctioneers: Griffin Real Estate & Auction Service, LLC.

May 10, 11 & 12 — HomeMart 3-day retail store liquidation auction, selling building & complete contents, new & used merchandise, furniture, showcases at Lyons. Auctioneers: Stroh's Real Estate & Auction, LLC.

May 11 — Well-kept, 2 bedrooms, large living room, 1 bath, partial basement, 2 car detached garage, utility building held at Manhattan for Lawrence & Lois Hedman Trust. Auctioneers: Gannon Real Estate & Auctions.

May 12 — Guns, ammo & related items, furniture, collectibles, JD tractor with mower, chipper shredder, snow blower, mower, coins & more at Topeka for Darrel & Susan Pendergast. Auctioneers: Gannon Real Estate & Auctioneers.

May 12 — Car, sewing items, collectibles, household, 1950s-60s toys & misc. at Lawrence for Marjorie A. Schick Estate. Auctioneers: Elston Auctions.

May 12 — John Deere collector farm toys new in box, guns, old, antique & collectibles, furniture, household, kitchen, tools, shop equipment, lawn care held near Smolan for Dolly & Mannie Nelson. Auctioneers: Pilsen Packers Auctions, Joe Vinduska.

May 12 — Tractor, trucks, drill, baler, trailers & equipment, boat

& more at Florence for property of Roger Williams. Auctioneers: Griffin Real Estate & Auction Service, LC.

May 12 — Real estate (lake cabin), mechanics tools & more at Quenemo. Auctioneers: Murray Auction & Realty.

May 12 — Herd reduction sale at Brownell for C-Bar Red Angus.

Online Only Auction — Opens May 15 and begins to close May 22 — John Deere tractor & loader, pickup, trailer, farrier equipment & supplies, anvils, blacksmith tools, antiques & collectibles, tools, furniture, barn items, advertising signs, artwork, clock, music collection & much more at www.dlwebb.com for Jim & Lolo, The Horseshoers. Auctioneers: Dave Webb, Webb & Associates Auctions & Appraisals.

May 15 — Real estate, (T1) log house & 10 acres m/l; (T2) 68 acres m/l in CRP held at Junction City for Thomas R. Mika. Auctioneers: Brown Real Estate & Auction Service, LLC.

May 17 — 2695 acres of Chase County grassland held at Cottonwood Falls for property of Whiskey Charlie, LLC. Auctioneers: Griffin Real Estate & Auction Service, LC.

May 17 — Real Estate, 5 bedroom, 3 bathroom home with large corner

lot held in Lawrence. Auctioneers: Flory & Associates, Realty & Auctions.

May 19 — Firearms, coins, collectibles, furniture, tools, household & misc. at Lawrence for Pat Williams Living Estate. Auctioneers: Elston Auctions.

May 26 — 3 Bedroom home built by the Abilene High School Carpentry Class held at Abilene for USD 435. Auctioneers: Reynolds Auction Service.

May 26 — Skid steer, tractors, equipment, petroleum full size pumps & lubesters, vintage petroleum & advertising signs, collectibles, horse drawn items & misc. at Baldwin City for Bruce Kesl. Auctioneers: Elston Auctions.

May 28 — Harley Gerdes 25th Annual Memorial Day consignment auction at Lyndon. Auctioneers: Harley Gerdes Auctions.

June 2 (Rain date: June 9) — Car, pickup & household goods at Clay Center for the Estate of William Edward Broden. Auctioneers: Kretz Auction Service.

June 9 — Tractors, trucks, farm machinery, lawn & garden, misc. farm items & more at New Strawn for New Strawn Farm & Ranch Consignment auction. Auctioneers: Kurtz Auction & Realty.

## AUCTION

**SATURDAY, MAY 5, 2018 — 9:00 AM**

Offering for sale at Public Auction, located at 1002 Commerce Dr., (Industrial Park), HESSTON, KANSAS

**TRUCK, TRAILERS, MOWERS & EQUIPMENT, MOWER & UTV RELATED ITEMS & MISC.:** 2007 Dodge 2500 4 x 4 diesel pickup, 270K miles; Excel 7x12 hyd. tilt bed trailer; Buck Dandy 7x20 tandem axle dove tail trailer; **Numerous Excel Hustler Mowers!**

**EXCEL INDUSTRIES, INC., SELLER**  
For information call **Derek Roth (620) 327-1629**

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**VAN SCHMIDT • Auctioneer/Real Estate**  
7833 N. Spencer Road, Newton, KS 67114  
**620-367-3800 or 620-345-6879**  
[www.hillsborofreepress.com](http://www.hillsborofreepress.com)

Schmidt Clerks & Cashiers / Lunch provided by K&B Catering

TERMS: Cash day of sale. Sales Tax will be included on all purchases. Statements made day of sale take precedence over advertised statements. All equipment is being sold in its current condition with no warranties. Any implied warranty of merchantability or fitness for a particular purpose is hereby disclaimed.

## REAL ESTATE AUCTION

**TUESDAY, MAY 15, 2018 — 7:00 PM**

Held at: 2323 North Jackson, JUNCTION CITY, KS

Tract 1. HOUSE: Log House, county calculated 3,762 sq. ft. w/ walk out basement & 2 car attach. garage, 2 bedrooms, 2 baths on main level w/the potential for 2 more bedrooms & a bath on lower level, Family Room. House has a wraparound deck, central air & heat, septic system & well water on 10+/- acres.  
*House & 10± acres are located at 1962 3600 Ave., Wakefield*

Tract 2. **68± ACRES:** (32± ac. in CRP) \*Subject to Tenants Rights  
**LEGAL DESCRIPTION:** N1/2 NE1/4, Less R/W in Section Seven (7), Township Eleven (11), Range Four (4) in Dickinson County, Chapman, Kansas.

For information or viewing contract **Jay E. Brown 785-223-7555.**  
For TERMS & COMPLETE INFORMATION go to websites below

**THOMAS R. MIKA**

ANNOUNCEMENTS & STATEMENTS made day of sale take precedence over all printed material. Broker & Auctioneers represent the Seller.

785-762-2266  
**JAY E. BROWN, Auctioneer,**  
785-223-7555  
**GREG HALLGREN, 785-499-5376**

E-mail: [jbrown@ksbroadband.net](mailto:jbrown@ksbroadband.net)  
KSALLink.com • [KansasAuctions.net](http://KansasAuctions.net)

## American Hereford Association to release "Maternal Advantage" program

The American Hereford Association (AHA) is proud to introduce the Maternal Advantage program — a genetically verified program that will be used to identify premium replacement females.

This new female-focused program is designed to take advantage of hybrid vigor by capitalizing on Hereford genetics. It has been documented that Hereford genetics maximize the value of a herd by leveraging its fertility, feed efficiency, profitability and docility to the producer's advantage.

"The Maternal Advantage program is a great tool for progressive producers to utilize for adding value to replacement females and aiding in promoting the industry's most sought-after females," says Trey Befort, director of commercial programs at the AHA. "We are excited to provide yet another tool to continue leveraging Hereford's influence in commercial programs."

The program generates

females with added longevity, more docility, increased fertility and more profit per year. This program can be utilized by producers using Hereford bulls on British-based or Brahman-based females in their breeding program.

To take advantage of the program, producers must verify that eligible females are sired by registered Hereford bulls. Participating bull batteries must rank in the top 50% of the breed for Baldy Maternal Index (BMI) if used on British-based females or the top 50% of the breed for Brahman Influence Index (BII) if

used on Brahman-based females. Both of these maternally focused indexes are geared to identify Hereford bulls that will be profitable when used in a rotational cross with mature commercial Angus-influenced or Brahman-influenced females. Both BMI and BII have significant weight on the AHA's Sustained Cow Fertility (SCF) expected progeny difference (EPD), which predicts fertility and longevity of females. They also have an emphasis on growth, efficiency and end product merit for non-retained females.

Cattlemen who take

advantage of the program will reap the many benefits offered by the AHA. Not only will they have added hybrid vigor in their operation, they will also have access to a sire EPD summary, added market exposure, replacement selection tools, genetic improvement tools and access to AHA resources, marketing and staff.

For more information about the Maternal Advantage program, contact Trey Befort, at [tbefort@herefordbeef.org](mailto:tbefort@herefordbeef.org) or visit [hereford.org/maternal-advantage](http://hereford.org/maternal-advantage).

## ESTATE AUCTION

**SATURDAY, MAY 5, 2018 — 10:00 AM**

10390 Quail Hill Drive — OZAWKIE, KS

From Ozawkie East 1 mi. on Hwy 92 to Quail Hill Dr. North to Auction! From Oskaloosa West 8 mi. on Hwy 92 to Quail Hill Dr. North to Auction! WATCH FOR SIGNS!!

**LAWN EQUIPMENT, SHOP TOOLS, COLLECTIBLES, HOUSEHOLD & MISC.**

See last week's Grass & Grain for listings & Please visit us online at [www.KansasAuctions.net/elston](http://www.KansasAuctions.net/elston) for pictures! Security Cameras on Premises! LARGE BUILDING TO SELL FROM IF THE WEATHER IS BAD! Concessions: Fairview 4-H.

**SELLER: MRS. (DAVE) MARGE WHIPPLE**

Auctioneers: Elston Auctions (785-594-0505) (785-218-7851)  
"Serving Your Auction Needs Since 1994"

## LAND AUCTION

**SATURDAY, MAY 5, 2018 — 10:00 AM**

Auction to be held at the McMannis Building, 111 N. Main St. CANTON, KANSAS

**41± Acres in McPherson County**  
*Land located from Canton, KS 7.5 miles South on 27th Avenue.*

**LEGAL DESCRIPTION:** S33, T20, R01, Acres 41± CA NE/CNE4 TH S1518' FOR POB TH S1481.1 Ft. W660.9 ft. N332.7 Ft. W672.6 Ft. N1284 Ft. E714.7 Ft. S126.1 Ft. E622.2 Ft. to POB LESS ROW. This property is approximately 37 acres of tillable ground consisting of Cass fine sandy loam and Framun loam with 1 to 3% slope, remaining is trees and creek along a paved county road with numerous possibilities. Come prepared to BID AND BUY!

**Terms of Sale:** 10% of purchase price down day of auction, balance due on or before closing date of June 15, 2018. Possession at closing. Title insurance and closing costs will be shared equally by the Seller and Buyer. Buyers financing is not contingent upon purchase. Buyer to sign Real Estate contract day of sale. All property is sold as is. Rolander Agency is acting as agent of the seller.

**S. KENT THOMPSON, SELLER**  
WILLIAM CRANE, AUCTIONEER/REALTOR  
785-577-0488 • 785-254-7034  
Ron Rolander, Broker, 785-227-5050

Statements made day of sale take precedence over all advertising.

## Milk production sees one percent increase

Milk production in Kansas during March 2018 totaled 314 million pounds, up 1 percent from March 2017, according to the USDA's National Agricultural Statistics Service. The average number of milk cows was 155,000 head, 2,000 head more than March 2017. Milk production per cow averaged 2,025 pounds.

Access the national publication for this release at: <http://usda.mannlib.cornell.edu/usda/nass/MilkProd/2010s/2018/MilkProd-04-20-2018.pdf>

Find agricultural statistics for your county, state, and the nation at [www.nass.usda.gov](http://www.nass.usda.gov)

## AUCTION

**SATURDAY, MAY 5, 2018 — 9:00 AM**

Auction will be held at the farm 525 Granite Road REPUBLIC, KS. Located from Republic ½ mile South then 2 miles West to the corner of Granite & Pawnee Trail roads.

**ANTIQUES & HOUSEHOLD**  
Oak 4pc. queen bedroom set; single bed w/chest, night stand, desk vanity & floor mirror; white queen bed w/corner vanity & chest; 3 pc blonde oak bedroom set; oak drop front secretary; electric Orgasonic organ; Wurlitzer piano; 42" flat screen TV; black bench; maple vanity; maple tea cart; jewelry chest; couch; maple rocker; maple end & coffee tables; Bernina Record sewing machine; stereo; VCR; records; kitchen appliances; Bissell sweeper; exercise bike; wind surfer board; 12 gal. Weatherall new paint; COLLECTIBLES Pine 2 door wall cabinet; oak chiffrobe; wooden benches; chrome dinette table; 2 door base cupboard; oak parlor table w/claw feet; sewing stand; oak rocker; cedar chest; porcelain top work table; Japanese pin ball machine; child's bench; large assortment of jewelry; assortment good pictures inc. Signa Larson; Franteska Palecek painting; Shirley Temple pieces; carnival glass bowls; assortment Fiesta (coffee pot, plates, bowls, tea pot, gravy, other); Cape Cod; vases; Delft; assortment hand painted bowls, plates; Iris pitcher & bowl; perfume bottles; blue ironstone china; kerosene lamps; Gobel; Roman Angel figure; other figurines; quilts; vintage shoes &

hats; patterns; Snoopy & Secret Agent lunch boxes; flour sacks; Carom board; malt mixer; dolls; Dick Tracy gun; assortment toys; child's piano; comic books; crocks; lighting rod balls; cast iron pots; rocking horse; wooden boxes; copper boiler; collectible rocks; bottles; puzzles; microscope; Red Rider BB gun; ducks; girls bike; sled; Halloween & Christmas decorations; large assortment books; saddles; rock polisher; traps; nail kegs; wash tubs; cream cans; very large assortment of other collectibles & household.

**CARS, TRUCKS, FARM MACHINERY, TOOLS**  
1997 Oldsmobile Aurora 4 door car, auto, 8 cy, leather, 145,144 miles; 1988 Buick Riviera 2 door car, 6 cy, auto, needs tune up; 1994 Pontiac Grand Prix 2 door car, 6 cy; John Deere 3020 diesel tractor narrow front, 3 pt. single hyd 6000 hrs; Deutz D13006 diesel tractor w/cab 3 pt. single hyd, w/Dual 140 loader & grapple fork; Ferguson TO 30 tractor, 3 pt, 4 speed; John Deere 4400 diesel combine 14' header, engine rebuilt before parked in shed; JD 444 corn picker; 1977 IHC Loadstar 1600 truck, 8 cy, 5 sp, 2 floor, 16' box w/metal box & floor, runs, needs brakes, 28,583 miles; 1964 Chevrolet C60 truck, 6 cy,

4 sp, 2 sp, 13 ½' bed w/hoist 59,000 miles; 1948 Diamond T truck, 6 cy, 4 sp, 2 sp, 13 ½' bed w/hoist 88,000 miles; John Deere 7100 4 row 3 pt. planter; John Deere 1010 2 section hoe drill; John Deere 4-16 semi mount plow; Bush Hog 16" tandem disc; IHC 14 side delivery rake; 3 pt. Lillison 6 row cultivator; Kent springtooth; 4 row 3 pt. duck bill cultivator; 3 pt. 14' chisel; 6" auger w/gas engine; 4 round bale feeders; squeeze chute; loading chute w/panels; 3 pt. bale mover; 8' 3 pt. blade; 3 pt. post hole digger; Ford 3 pt. cycle mower; 3 pt. wood splitter; pickup stock rack; 1981 Kawasaki KE 125 motorcycle 4385 miles; Honda 90 motorcycle 4950 miles; Polaris 4 x 4; Troy Bilt Horse & Tuffy rear tillers; Dixon ZTR42 5 speed riding mower; Murray riding mower; high wheel push mower; flat bottom John boat; 5 hp boat motor; Tools inc; Lincoln 225 welder; 4400 watt generator; hyd bumper jack; 10" Power Kraft radial arm saw; chain saw; hand tools; yard tools; assortment lumber; barb wire; electric fence posts; Gilbarco gas pump; 1000 gal fuel barrel; 300 gal fuel barrel; roll plastic pipe; irrigation engine w/pump; 10" irrigation pipe; cement mixer; large assortment of other outside items.

**Note: This is a very large auction, we will start on antiques & household, there is a very large collection of collectibles. We may run 2 auctions part of the day. We will be on the cars, trucks, tractor, and farm items at 12:30. For pictures check our website at [www.thummelauction.com](http://www.thummelauction.com).**

**DARRELL & MARILYNN BIRRELL TRUST**

Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC  
785-738-0067



# BAXTER BLACK

ON THE EDGE OF COMMON SENSE

## Classified Ads (Interpreted)

**HELP WANTED:**  
**COWBOY** (at least own a hat), **REMOTE CAMP** (applicant must be able to work a parachute), **SELF-STARTER** (rooster furnished). **NO PROBLEM**

**DRINKERS** (wait! On the other hand, you might fit right in). **MUST SHOE** (if you can't shoe we'll furnish you with a burro). **GOOD WAGE** (hundred a month but where you're

goin' there's no place to spend it anyway), **INSURANCE** (I'm kidding, of course) **AND GROCERIES** (all the other help likes navy beans).  
**SEND RESUME TO WANG SNAFFLE, 2 BIT RANCH, WIKIEUP, AZ.**

**FOR SALE:**  
**RANGE CUBES** (called this because our cubes range in size from 4x4 sheets of plywood to dust) **NOW AVAILABLE** (we bought a trainload of this stuff in 2005 and still have

half of it left) **ALL NATURAL INGREDIENTS** (25% wood shavings, 25% Johnson grass clippings, 24% salt mine tailings and 1% dried catfish waste).  
**BAGGED OR BULK, WE DELIVER** (from a Copenhagen lid full to enough to dam the Arkansas River).  
**CONTACT DOWN & OUT MILLING CO., WAMEGO, KS.**

**RANCH TO SELL:**  
**SCENIC** (unbroken vista. Only three trees on the place and they grow

at forty-five degree angle), **7,500 ACRES** (2% deeded) **FOUR MILES OF BOTTOM LAND** (we cut hay off the bar ditch where the interstate crosses the ranch), **GOOD WINTER PROTECTION** (we've been scattering old car bodies around the ranch since 1968), **WATER** (every fifty years the Tongue River Floods), **EXCELLENT TERMS** (one fourth down and a member of your family as collateral).  
**CALL TODAY! BLUE SKY REALTY, MILES CITY, MT.**

sum that had been run over on I-70).  
**LOOKING FOR A JOB WITH A FUTURE** (or at least until spring when I can start roping again).  
**WRITE: COWBOY BOB, GIANT APARTMENT COMPLEX, DENVER, CO**

**FOR SALE, MILK COW:**  
**GENTLE** (bit the last chore boy's finger off, but did it gently), **BANG TESTED** (we've actually hunted wild turkey off her and she never finches), **CHIANGINA LONGHORN CROSS**, **BLACK BALDY**, **HOLSTEIN CROSS** (you could milk her standin' up, hang the bucket on her horns, she never gets pinkeye and the two teats that work give a quart a day), **ON HER THIRD CALF** (she's a fourteen-year-old heiferette), **REGISTERED** (plans to vote next year), **WILL SELL CHEAP** (bring a long rope and string of horse when you come to pick'er up.)  
**CALL: CHUY FLICK, COW TRADER, PUMPVILLE, TX**  
[www.baxterblack.com](http://www.baxterblack.com)



### New, Remanufactured and Recycled Ag Replacement Parts



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Ag Replacement Parts

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The second step includes ongoing and stringent quality-control measures by qualified technicians. All transmissions are built to OEM specifications and are tested under load in every forward and reverse gear – in both high and low ranges. Pressures are also read and recorded in those same gears at specified temperatures. Only after passing these performance and reliability tests will the transmission assemblies receive Abilene Machine's "stamp of approval." After careful inspection, the ready-to-use assembly is delivered to you in a specially built steel freight carrier to ensure your assembly is received damage-free.



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**RANCH JOB WANTED:**  
**MALE** (been shaving since I was 12), **EXPERIENCED** (been team roping and living off the folks the last six years), **MARRIED** (occasionally), **HAIR** (thinning), **EYES** (two), **HORSE BREAKER** (if they're gentle and you have a supply of drugs available – for horse, of course), **MECHANICALLY INCLINED** (can open a pop top on a Coors light or screw cap bottle of Vino Mio in record time), **PRACTICAL VET** (nearly saved a pos-

**Call us for:**

- Catalogs
- Sale Flyers
- Magazines
- Calendars
- Brochures
- Books



**AG PRESS**  
**785-539-7558 Ask for Sandra**

# Farmers & Ranchers

## AUCTIONS EVERY MONDAY & THURSDAY

### Selling Hogs & Cattle every Monday

RECEIPTS FOR THE WEEK TOTALED 4,784 CATTLE AND 74 HOGS.

STEERS		HEIFERS	
300-400	\$210.00 - 225.00	300-400	\$180.00 - 192.00
400-500	\$190.00 - 205.00	400-500	\$170.00 - 182.00
500-600	\$178.00 - 192.75	500-600	\$146.00 - 160.00
600-700	\$155.00 - 169.50	600-700	\$135.00 - 150.75
700-800	\$148.00 - 162.50	700-800	\$120.00 - 135.00
800-900	\$125.00 - 139.50	800-900	\$107.00 - 121.50

**THURSDAY, APRIL 26 FEEDER SALE:**

STEERS		HOGS	
3 blk Ellsworth	327@225.00	2 sows Lebanon	938@35.00
7 blk Brookville	366@212.00	1 sow Potwin	500@35.00
11 blk Solomon	389@211.00	8 pigs Whitewater	41@30.00
10 mix Maize	418@205.00	23 fats Tescott	282@37.00
3 red Miltonvale	415@205.00	12 fats Lindsborg	285@36.50
3 blk Abilene	405@202.00	5 fats Newton	277@36.00
5 blk Brookville	446@200.00	5 fats Manchester	249@36.00
9 mix Ellsworth	424@199.00	<b>CALVES</b>	
33 mix Solomon	520@192.75	1 blk Claflin	245@475.00
14 mix Brookville	514@191.00	3 blk McPherson	278@435.00
25 blk Solomon	459@189.50	1 bwf Minneapolis	235@425.00
26 red Lincoln	525@181.00	1 blk New Cambria	205@360.00
16 blk St. George	584@178.50	1 blk Minneapolis	160@325.00
7 blk Clay Center	511@177.50	1 blk Lorraine	150@310.00
4 mix Lindsborg	501@175.50	1 blk Claflin	170@310.00
11 blk Brookville	571@172.50	1 blk Longford	165@300.00
14 mix Marion	623@169.50	<b>BULLS</b>	
10 blk Galva	605@169.50	1 blk Sterling	1970@90.00
4 blk Salina	624@169.00	1 blk Marquette	2125@86.50
15 blk Clay Center	607@169.00	1 blk Sterling	2175@84.00
26 mix Brookville	613@168.75	1 blk Tampa	2150@83.50
2 blk McPherson	600@168.00	1 blk Clay Center	2120@83.00
9 blk Abilene	677@167.00	1 wf Falun	1850@83.00
9 char Brookville	641@166.00	<b>COWS</b>	
13 mix Herington	605@166.00	1 blk Salina	1295@65.00
13 blk Galva	677@165.00	1 blk Lindsborg	1215@64.00
43 blk Clay Center	600@163.50	7 blk Minneapolis	1435@63.50
24 mix St. George	717@162.50	1 blk Carlton	1140@63.00
6 blk Lost Springs	654@161.50	1 blk Assaria	1520@63.00
14 mix Brookville	682@156.50	9 blk Miltonvale	1436@62.75
14 blk Valley Center	699@155.00	4 blk Solomon	1378@62.50
5 mix Lorraine	710@155.00	1 blk Raymond	1460@62.00
8 blk Lincoln	743@150.00	1 blk Lindsborg	1440@62.00
8 blk Ellinwood	764@147.00	1 rwf Longford	1510@62.00
58 blk Solomon	841@139.50	1 blk Salina	1610@61.75
5 mix Valley Center	806@139.00	1 bwf Ada	1460@61.50
7 blk Beloit	784@139.50	1 grey Delphos	1450@61.50
62 mix Abilene	814@136.50	2 blk Lindsborg	1360@60.50
7 blk St. George	850@136.00	<b>RECIPES WANTED</b>	
63 mix Abilene	892@134.75	Send us your favorite recipes for the Farmers & Ranchers Livestock Comm. Co. Friends and Family Cookbook Please email to <a href="mailto:ranchcooks@gmail.com">ranchcooks@gmail.com</a>	
16 blk Viola	858@132.50		
67 mix Enterprise	897@127.50		
59 mix Abilene	959@123.85		

## Livestock Commission Co., Inc. Salina, KANSAS

### SALE BARN PHONE: 785-825-0211

**MONDAY — HOGS & CATTLE**  
Hogs sell at 10:30 a.m. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

**THURSDAY — CATTLE ONLY**  
Selling starts at 10:00 a.m. Consign your cattle as early as possible so we can get them highly advertised.

**AUCTIONEERS: KYLE ELWOOD, ANDREW SYLVESTER & GARREN WALROD**

For a complete list of cattle for all sales check out our website [www.fandrive.com](http://www.fandrive.com)

**SPECIAL COW SALES: Monday, May 14 • 5:00 PM**

**November 1st: Farmers & Ranchers switched to LMA Online Auctions**

**Go to LMAAuctions.com**

If you were an approved bidder on Cattle USA, your account has been switched over, please log in using the same email and password. If you were just a user watching on the internet, not approved to bid, you will have to create a new user account to watch online at LMAAuctions.com

**Having Trouble Logging in or still have Questions? Please call: 1-800-821-2048**

**EARLY CONSIGNMENTS FOR THURSDAY, MAY 3:**  
30 steers & heifers weaned vacc 400-500; 115 black steers & heifers home raised weaned vacc Benoit sired 650-900; 15 mostly black steers & heifers vaac 500-550; 275 Charolais cross steers & heifers weaned Jan 1 home raised 2nd vacc no implant running on short wheat open sired by Eaton Charolais bulls Montana origin 450-600; 57 Charolais/Red Angus heifers no sort long time weaned open off short wheat 775; 90 mostly red steers & heifers home raised long time weaned open 750-950; 50 black crossbred steers & heifers long time weaned 475-600; 50 black steers & heifers weaned 40 days vacc home raised 450-550; 46 steers & heifers weaned 90 days 500-600; 14 steers & heifers 550-600; 56 heifers preg'd open 750-800; 65 black steers 850; 75 black steers & heifers 2rnds vacc poured 400-550; 50 black steers & heifers vacc 400-600; 63 mostly black steers 850.

**EARLY CONSIGNMENTS FOR MONDAY, MAY 14 SPECIAL COW SALE Starts at 5:00 PM**

**BULLS:** 8 Registered Black Angus yearlings; 2 Angus bulls 16-18 months virgin semen checked. **HEIFER PAIRS:** 45/45 black heifer pairs heifers northern origin Angus calves worked exposed to back to Bar S Angus bulls; 30/30 Red Angus heifer pairs Red Angus calves Montana origin worked Feb/Mar calves. **COWS:** 20/20 Black & Red Angus pairs Dec/Jan calves worked running back with bull; 105/105 black/BWF/Hereford pairs 6 & older home raised Angus calves born in Feb worked tagged Complete Dispersal; 60 black cows 4-8 yrs bred Gardiner Angus Early fall calves; 60/60 black pairs Angus calves worked; 140 mostly black cows bred to Angus fall bred; 20 black cows 4-8 yrs bred Gelb., fall bred; 11/11 black cows with Charolais calves 9 and older spring calves; 80 black cows 3-5 yrs bred to Angus start calving Aug 25 for 60 days; 80 black cows 3-5 yrs bred to Montana Angus bulls start calving Sept 1 for 60 days; 30/30 black and red Angus 3 yrs pairs Angus calves worked.

## SPRING SPECTACULAR CATALOG HORSE SALE

**Friday, May 18:**  
Rope Horse Preview, 1pm  
**Friday, May 18: Ranch Horse Competition, 6pm**

**Lot 144**



**Lot 58**



**Lot 36**



**SATURDAY, MAY 19: SPRING SPECTACULAR HORSE SALE- 10 AM**

**IN STOCK TODAY:**

- Heavy Duty Round Bale Feeders
- 6'8" X 24' GOOSENECK STOCK TRAILER METAL TOP
- 6'8" X 24' GOOSENECK STOCK TRAILER
- 6'8" X 24' GR Stock Trailer Metal Top

**For Information or estimates, contact:**

**Mike Samples, Sale Mgr., Cell Phone 785-826-7884**  
**Kyle Elwood, Asst. Sale Mgr., Cell Phone 785-493-2901**

Jim Crowther 785-254-7385 Roxbury, KS	Lisa Long 620-553-2351 Ellsworth, KS	Cody Schafer 620-381-1050 Durham, KS	Kenny Briscoe 785-658-7386 Lincoln, KS	Kevin Henke H: 785-729-3473, C: 785-565-3525 Agenda, KS	Austin Rathbun 785-531-0042 Ellsworth, KS
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**Cattle Sale Broadcast Live on LMAAuctions.com 1150 KSAL, Salina 6:45 AM -MON-FRI \* 880 KRVN 8:40 AM - WED.-THURS. \*550AM KFRM - 8:00 am, Wed.-Thurs.**

Check our listings each week on our website at [www.fandrive.com](http://www.fandrive.com)

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**Farmers & Ranchers Livestock**  
Salina, Kansas