

GRASS & GRAIN®

Published by AG PRESS

64th Year

No. 36

November 6, 2018

\$1.00



Interest strong among producers in growing industrial hemp

By Donna Sullivan, Editor

In late October, farmers from Manhattan to Garden City were discussing a crop that hasn't been grown in the United States since the late 1930s: industrial hemp. Kansas Farmers Union and Kansas Center for Sustainable Agriculture hosted Canadian hemp farmer Rod Flaman for a series of four meetings in Manhattan, Salina, Colby and Garden City, in which the Kansas Department of Agriculture also outlined the rules and regulations facing producers should they decide to pursue the opportunity of growing the specialty oilseed crop. A total of about 300 producers attended the meetings.

Once grown by George Washington himself, who encouraged others to grow it as well, industrial hemp was an important fiber right up through WWII. Its decline began with the Marijuana Tax Act of 1937, with the death knell coming in the form of the Controlled Substance Act of 1970, which made it illegal to grow without a permit.

Flaman explained that it was really a lack of understanding of the genetic make-up of hemp that led to its demise. "All marijuana is hemp, but not all hemp is marijuana," he said. "There's a little genetic variation where one plant has THC (tetrahydrocannabinol) and the other one doesn't." THC is the cannabinoid that is psycho-active, causing the "high" marijuana is known for. It and CBD (Cannabidiol) are among the approximately 80 different cannabinoids produced by the hemp plant. "In Canada and the U.S., when they made marijuana illegal, they looked at these cannabinoids and didn't really understand them very well," Flaman said, and they made them both illegal. He went on to explain that the CBD component is actually anti-psychoactive. "If you Google cannabis oil, you'll see that CBD has had a lot of legitimate research put into it all over the world. The medical community and the phar-



Kansas Farmers Union president Donn Teske, right, introduces Rod Flaman to a room full of producers interested in learning about growing industrial hemp during the Manhattan meeting, held at the Kansas Department of Agriculture. Teske joked that he was abusing Flaman's friendship by bringing him to Kansas while hemp harvest was under way at his farm in Canada.

Photo by Donna Sullivan

maceutical community is going nuts over CBD because it has way more medical benefits than THC does," he said.

The door cracked open for industrial hemp's come back in the 2014 farm bill. Section 7606 "legalized the growing and cultivating of industrial hemp for research purposes in States where such growth and cultivation is legal under state law, notwithstanding existing federal statutes that would otherwise criminalize such conduct."

On April 20 of this year, Governor Jeff Colyer signed Senate Bill 263, enacting the Alternative Crop Research Act, giving the Kansas Department of Agriculture the authority to oversee the cultivation of industrial hemp in a research program. A process that normally takes a year or more has been fast-tracked, and KDA staff has been tasked with getting a program in place by the end of the year.

KDA compliance education coordinator Dana Ladner outlined the licensing that will be required to participate. A research proposal, fingerprinting and a background check will be mandatory, and the industrial hemp must be grown from certified seed. Growers, distributors and processors will all be required to have a separate license.

For the 2019 growing season, the deadline for applying for a license is March 1. For subsequent growing seasons, the deadline will be November 30. Pre-harvest inspections, sample collections and testing will all be part of the program, and the THC level must be .3% or less. Ladner stressed the importance of growers maintaining the proper paper trail.

Flaman grows a certified seed variety called X59, which he described as a mid-range variety in terms of agronomic characteristics that is a decent producing crop of average height. Canadian producers had been receiving about \$1 a pound for their certified seed until this year, when the Chinese started importing hemp seed into Canada, pushing the price down to 45 cents a pound. Yields range from 500-1200 pounds an acre, with 800 pounds considered a decent crop. "Two years ago, our hemp, net cleaned production was 1200 pounds an acre at a dollar a pound," he stated. "For us, that was fantastic. Now today, with three inches of rain, it might be in that 500-pound range. If you were growing commercial at 45 cents a pound, your revenues are \$250 and I don't think you're going to cover cost. So it's like any other crop, there are good

years and bad years. It's all over the map."

On October 17, just three days prior to Flaman's visit to Kansas, Canada legalized marijuana for recreational use, which should also remove CBD and THC from the country's list of Class 1 narcotics. "So now the question I have is, what's the difference between CBD oil and lavender oil? You can go to Walmart and buy lavender oil or any of the essential oils. So CBD is an essential oil. And being non-psychoactive, it shouldn't be regulated at all."

The problem lies in the fact that hemp is visually indistinguishable from marijuana, and just as alcohol is legal, but there are regulations involved for those who want to distill and sell it. Likewise there are rules for the growing, processing and distribution of hemp and its products.

As for the agronomics of the crop, Flaman said he hasn't found any insect problems and has seen very few disease problems, but it is very sensitive to the weed killer Roundup. "I have great fun telling people it grows like weed," he quipped.

He said for certified seed, his buyer wants it at 10%. "If you're harvesting for commercial purposes, there are people harvesting at 20% and drying it

down." He cautioned that can be dangerous, since it's an oilseed with a narrow window of time before it starts heating in the bin, but explained the reasoning behind taking the risk. "When the plant is green, you can snap the stem," he said. "Once those fibers dry down, you can't snap them any more, and that fiber is the strongest natural fiber in the world." Those fibers, that fluff out like a horse's tail when separated from the stem, present a challenge going through the combine. "You've got these fibers that are stronger than Kevlar, three feet long and they're going through your combine and wrapping on anything they can wrap around." As the fibers wrap tighter and tighter, heat builds up, melting the grease in the bearings until there's metal on metal and the bearing starts throwing sparks. The fan blows the sparks through the combine and wherever there is chaff building up, cause smoldering fires throughout the combine. "That's kind of a deal-breaker for me," Flaman admitted. "When that happens, we're done for the day. We take it to the yard and put the garden hose on it and pump water in everywhere, soak the whole combine down. Then we wait over night and hope we got it. It's happened a few times

where we go out the next morning, go halfway down the field and there's smoke again. It's brutal."

Flaman said he went to a Lexion combine, because it's reputed to have the lease issues with wrapping. Using 8- and 10-inch diameter pipes he welded a labyrinth seal to keep the hemp from getting into the cylinder shafts, which he said worked pretty well.

Because the United States no longer has any sort of textile market, and Flaman doesn't believe it ever will, they use a heavy harrow in the spring to windrow the stubble, then burn it. However, automakers are beginning to replace the glass in fiberglass with hemp fibers, which could one day provide a market.

He believes that the future of the industry will be the medical use of the CBD. "When talking about hemp production, there's the seed, the straw and the fiber," he said. "Historically it's been a seed crop. Going forward, I think the medical part, the CBD is probably going to be the main revenue source in hemp production as opposed to the seed." He recalled a conversation with a grower from Colorado that helped put it in perspective for him. The grower told him that if growing for the fiber, he was probably looking at gross revenues of \$100 per acre. For seed production, a good crop of hemp seed is worth in the neighborhood of \$1000 per acre and if growing for medical purposes, he thought at that time the value was about \$25,000 per acre. "Does that strike a chord with any of you?" he queried.

Flaman had advice for those interested in growing industrial hemp, and that was, learn the rules and play by them. "The government has the reins," he pointed out. "There's nothing you can do about their regulatory process. There's always going to be the red tape aspect, you just need to learn the system and get on board and comply with whatever their requirements are if you want to play this game."

Langvardt wins World Livestock Auctioneer Championship qualifier

Lynn Langvardt, Chapman, was named Champion at the 2019 World Livestock Auctioneer Championship (WLAC) Western Regional Qualifying Event. Delta Sales Yard, Delta, Colo. hosted the second of three WLAC qualifying events on Saturday, Octo-

ber 27. A total of 14 contestants competed for a top ten placing, granting them a spot in the 2019 WLAC at Tulare Sales Yard in Tulare, California.

"I'm extremely humbled to win the WLAC Western Qualifying Event. The contest was filled with a lot of great auctioneers that did an outstanding job of working for both the seller and buyer."

Langvardt has earned the title of Region Champion two other times since his first competition in 1998. He moves onto the WLAC Semi-Finals where the competition is composed of two parts, an interview and live auction selling.

Langvardt is a second-generation auctioneer. He grew up attending weekly sales at the auction market his father both owned and auctioned at, which allowed him to know at an early age he wanted to make it his full-time career. "A large portion of my win was dedicated to my dad because he was the one who taught me to auctioneer. But also, for my sell-



Lynn Langvardt, Chapman, earned the right to compete in the World Livestock Auctioneer Championship by being named champion at the Western Regional Qualifying event.

Courtesy photo

ers and buyers I've worked with over the years. I'm looking forward to representing them at the 2019 WLAC in Tulare."

The Langvardt family has owned Junction City Livestock Sales in Junction City for 53 years and Clay Center Livestock Sales in Clay Center for 22 years,

Drees, Nampa, Idaho; Colton Brantley, Modesto, Calif.; Brandon Frey, Creston, Iowa; Steve Goedert, Dillon, Mont.; Shane Hatch, Kirtland, N.M.; Brennin Jack, Prince Alberta, Saskatchewan; Garrett Jones, Los Banos, Calif.; Zack Zumstein, Marsing, Idaho.

A live cattle sale took place with actual bidders in the seats. Contestants were judged on the clarity and quality of their auction chant, auctioneer presentation, ability to catch bids and conduct the sale, and how likely the judge would be to hire the auctioneer. Judges for each qualifying event are livestock market owners and managers from across the United States.

Other contestants who competed are Patrick Greenleaf, Wilmore; Michael Jennings, Condor, Alberta; Josh Larson, Haxtun, Colo.; Christopher Miller, Calhan, Colo.

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tion held the first annual World Livestock auctioneer Championship (WLAC) at the Cosmopolitan Hotel in Denver, Colorado. The purpose: to spotlight North America's top livestock auctioneers and to salute their traditionally important role in the competitive livestock marketing process. That year, 23 auctioneers from the United States and Canada sold the same 20 head of cattle over and over again.

The contest was held at hotels until 1967, when it traveled to its first LMA member market. Since then the WLAC has been held in conjunction with the LMA Marketing Industry Convention at member markets around the U.S. and Canada. Recent locations include California, Missouri, Montana, Tennessee, Kansas, South Dakota and Alberta, Canada. Though the rules have changed, the enthusiasm for the competition hasn't. On average each year, nearly 100 auctioneers enter the qualifying events and only

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Kansas Farm Bureau releases centennial website and singing competition

To mark the organization's 100th annual meeting, Kansas Farm Bureau (KFB) released a website highlighting 100 years of work in advocacy, education and service. Farm Bureau members are also encouraged to participate in a singing competition.

The site, www.kfb100years.com, features a timeline of KFB's history, featured stories from Farm Bureau members in Kansas and how the organization strengthens agriculture and the lives of Kansans through advocacy, education and service. The site also features an opportunity for members to share their memories.

To further celebrate, Kansas Farm Bureau is hosting a singing competition. The winner will sing the National Anthem and the Farm Bureau song the evening of Sun., Dec. 2 at KFB's 100th Annual Meeting Banquet.

To enter, members should share a 60-second demo of the National Anthem and the Farm Bureau song by Mon., Nov. 12 at midnight on either Facebook or Instagram. The post should tag Kansas Farm Bureau (@kansasfarmbureau on Facebook; @ksfarmbureau on Instagram) and use the hashtag #kfb100years. The winner will receive a hotel room for the night of Sun., Dec. 2 and a gift card.

For details including a copy of the Farm Bureau song, visit <http://kfb100years.com/stories/sing-our-song.php>.

Research shows fighting world hunger can be profitable for ag biotech firms

New research from the University of Nebraska-Lincoln shows that agricultural biotechnology companies can do well by doing good.

Agricultural economists Konstantinos Giannakas and Amalia Yiannaka found that companies can profit by lowering the price of genetic-modification technology in hunger-stricken areas when consumers associate this technology with reducing malnutrition and hunger.

"When a company develops a new innovation, such as a new seed trait,

a common assumption is that the company should exercise market power in order to maximize profits," said Giannakas, Harold W. Eberhard Distinguished Professor of Agricultural Economics. "However, our research shows that the company can actually profit by giving away its technology to hunger-stricken areas."

The Food and Agriculture Organization estimates that more than 820 million people around the world face malnutrition and hunger. Agricultural biotechnology has the potential to address

food-insecurity challenges by enhancing both the resistance of plants to environmental stresses, such as drought, and the quality and nutritional value of food.

The research shows that when the association of genetic-modification technology with reduced malnutrition and hunger in food-insecure areas lessens consumer aversion to such technology, innovative companies will find it optimal to reduce their prices and increase consumer access to nutritious food in these areas. The reason is

that their losses in these areas are more than compensated by their gains in the rest of the world.

"For these benefits to be maximized, it is important that the impact of genetic-modification technology in hunger-stricken areas of the world is significant and is broadly and effectively communicated," Giannakas said.

The results of the study were recently published in *Agricultural Economics*, the journal of the International Association of Agricultural Economists.

Gregg, Blach, Holthus on KLA Convention program November 28-30 in Wichita

Speakers scheduled to appear at the Kansas Livestock Association (KLA) Convention in Wichita will talk about creating an animal traceability system before a crisis arises, defining sustainability from the rancher's perspective, the cattle market outlook and a new digital consumer guide called Chuck Knows Beef. The convention will take place November 28-30 at the Wichita Hyatt and Century II Convention Center.

World Perspectives Consulting Projects manager David Gregg will talk about how the U.S. has an

opportunity to proactively develop an industry-driven animal traceability system without being forced into doing so by a disease outbreak. This is in contrast to most of the world's major beef exporting countries, which were forced to adopt a system in response to a disease event. With 61% of all beef exported around the world coming from a country with some form of animal identification, the U.S. currently is working at a disadvantage with export customers. Gregg's presentation will come during Beef Industry University (BIU), sponsored by the Farm Credit Associations of Kansas.

Continuing the BIU discussion on traceability, collaborators with Kansas-based CattleTrace will discuss how the pilot project is structured and provide an update on cattle scanned to date. The two-year project involves an end-to-end disease traceability system beginning with cow-calf producers and ending at the beef processing plant.

White City rancher Debbie Lyons-Blythe will be on the BIU program to talk about the cattle industry's key role in sustain-

ability discussions. She and others have provided input on behalf of cow-calf producers and feeders as part of the U.S. Roundtable for Sustainable Beef.

During a session sponsored by Elanco, CattleFax chief executive officer Randy Blach will provide a cattle and beef market outlook. The veteran market analyst will take a top-to-bottom look at beef industry economics, from feed and energy costs to exports and beef demand.

Veteran sportscaster and Smith Center native Mitch Holthus will be the keynote speaker at the Cattlemen's Banquet. Holthus will draw on his experiences as the voice of the Kansas City Chiefs since 1994 to share inspirational

stories with lessons that translate to business and life. His appearance is sponsored by Zoetis and Micro Technologies.

The Consumer Trends Forum, sponsored by the Kansas Soybean Commission, will highlight timely beef checkoff activities. Kansas Beef Council Director of Nutrition Abby Heidari will explain how checkoff-funded research is being shared with health influencers who consult with millions of patients on a regular basis. NCBA senior executive director of Brand Marketing Season Solorio will discuss the recent launch of Chuck Knows Best, the all-knowing digital beef expert powered by Google Artificial Intelligence.

KLA members will review existing policy and consider new resolutions during committee and council meetings at the convention. Among policy issues expected to be discussed are a state constitutional amendment on K-12 education funding, animal disease traceability and authority for the Kansas Department of Agriculture Division of Animal Health to address animal neglect cases. Final policy consideration will come during the general KLA membership meeting at the end of the convention.

The KLA Trade Show will feature livestock products and services on display for producers, as well as being the site for many social events and meals at the convention. A barn party will close out the trade show schedule, with entertainment by the hard-rocking country group Lucas Maddy and the Kansas Cartel. The band's appearance is sponsored by Merck Animal Health and Kansas Feeds.

Schedule and registration information is available on www.kla.org or in the November/December *Kansas Stockman*. All livestock producers are welcome to attend.

KLA works to advance members' common business interests on legislative, regulatory and industry issues affecting producers at both the state and federal levels. The association's work is funded through voluntary dues dollars paid by its members.



Twenty-three years ago, I married a horse person. Not just a horse person but a very good trainer, rider and cowhand. I am not all ashamed to admit that Jennifer is a much better hand than I am, I just feel lucky and blessed that she didn't feel the need to find a husband who was more proficient. I tried riding a little, especially during our courtship, but I am pretty sure that whole thing about old dogs and new tricks applied to me and riding.

In any case, along with marrying a horse person comes ownership of horses. We have had several over the more than two decades of marriage. Chico was a horse Jennifer bought for me with the hope that maybe I would get better at riding. He was a short horse, which was good for an unathletic, fat guy in that he wasn't too hard to get up in the saddle on. However, the fact that he was smaller probably didn't bode well for carrying the aforementioned fat guy. We traded Chico for Yeller. Yeller was a much bigger, stouter horse that suited big, fat guys better.

Yeller and I got along well, once I was in the saddle. However, soon after we got him, Isaac started riding and he got his mother's talent. Needless to say, I had lost my horse and ended up driving the feed truck when we moved the cows. Honestly, it is a job I am better suited for. There were other horses along the line including one named Finance, but that is another story for another day. The only pearl of wisdom here is to take a second look at any animal named Finance.

The only constant in my experience as a horse owner is Ace. Ace is Jennifer's horse, one of those once-in-a-lifetime horses that nearly ended our marriage only months after it had begun. We were living in Anthony, I was the county Extension agent and Jennifer was working for a local rancher by the name of Gerald Schmidt. Gerald hired Jennifer to help him with his cattle and to break his colts.

Soon after she started working for him, Jennifer came home very excited about a colt she was working with. He was the easiest horse she ever worked with and after just one day she could tell he was going to be a great one. Soon after

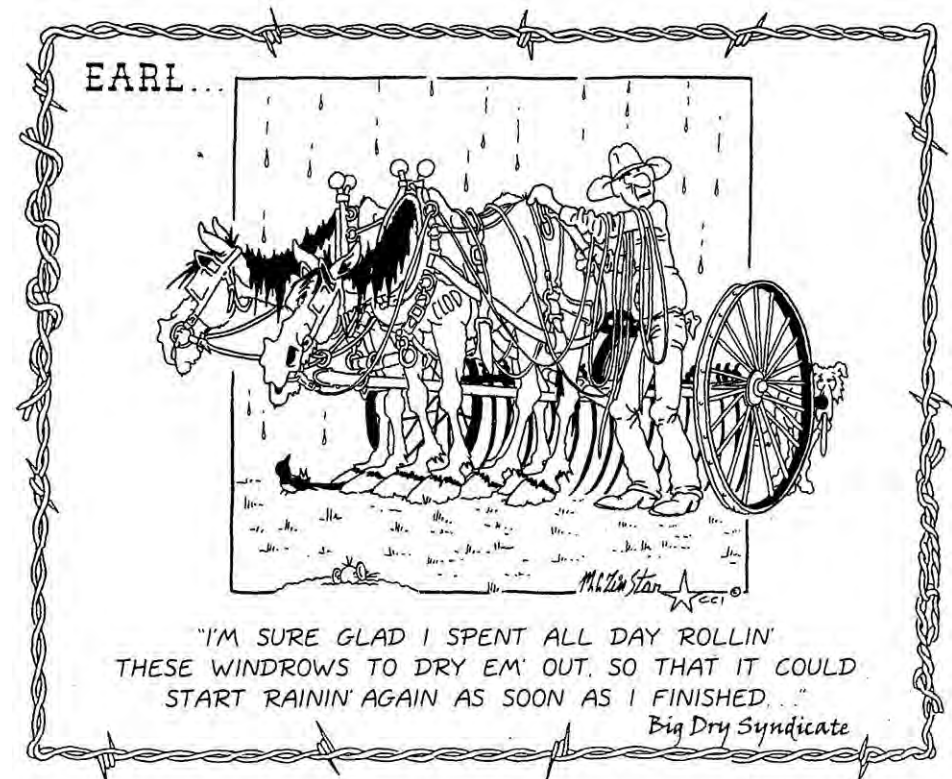
that a gentleman stopped by the Extension office and mentioned that he was looking for a horse, I told him I knew of the perfect one and sent him to Gerald. That night when I got home I knew something was terribly wrong.

Jennifer was not at all pleased that I had sent someone out to look at Ace and made that abundantly clear. I may not be real smart but occasionally I do get things right. I told her that if that horse was that special we had probably ought to find a way to buy him. The next day Jennifer went to Gerald and Ace came to live with us. Since then I have been no higher than second on the organizational leadership chart for our ranch. Jennifer is first, Ace is second and I know my place.

Ace is one of those horses that anyone can ride and do anything on. Even old, fat guys like me get along with him. With Jennifer he can move any group of cows, sort any calves and herd old grumpy bulls. Even more impressive, when we have kids visiting and they want to ride a horse we grab Ace and he allows them to kick, bounce, scream, giggle and do whatever they want while he walks along half-asleep. He is truly a once-in-a-lifetime horse and has earned a permanent place in our barn.

I guess that is why I never thought about him getting old; he was going to be here forever, always around to save the day and catch the cow. God willing, he will be around for many more years, but this fall it became apparent that Ace is no different than the rest of us and he cannot escape the reach of Father Time. It wasn't anything big, a stumble here and letting a cow get past him that never would have a year ago. He went hard and put everything into it and was better than 90 percent of the horses out there but the writing on the wall was obvious.

Jennifer has started the process of finding the next great horse; it won't be Ace, but I have faith in Jennifer's horse sense that it will be a good one. Yes, twenty-three years ago I married a horse person and began a lifetime of horse ownership. I may not be a hand myself, but I am awfully proud of the one I married and if keeping her in good horses is what it takes for me to stick around then we better find the next Ace.



Since 1954

GRASS & GRAIN

Published by AG PRESS

785-539-7558
Fax 785-539-2679

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GRASS & GRAIN (USPS 937-880)
 The newsweekly for Kansas and southern Nebraska, published each Tuesday at 1531 Yuma (Box 1009), Manhattan, KS by Ag Press, Inc. Periodicals postage paid at Manhattan, Kansas and additional offices. Postmaster send address changes to: Ag Press, Box 1009, Manhattan, KS 66505.

Subscription — \$76 for 2 years. \$41 for 1 year, plus applicable sales tax. Outside Kansas, \$51 for 1 year, \$95 for 2 years.

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Kansas Agriculture and Rural Leadership, Inc. selects Sankey to serve as vice president

Kansas Agriculture and Rural Leadership, Inc. president Jill Zimmerman has announced that Susan Sankey has accepted the position as KARL vice president.



Susan Sankey has been named vice president of the Kansas Agriculture and Rural Leadership program.

“The addition of a vice president has been a piece of KARL’s strategic vision for a while, and having the opportunity to set that strategy in motion will allow KARL to be more purposeful in our work, and to affect change at a

with the board of directors on a renewed strategy for excellence.

“This is truly a great hire for KARL,” said board chairman Jerry McReynolds. “Susan not only has the experience and technical skills to flourish with KARL, but, she has the passion, skill set, and an understanding of our culture to truly make a lasting impact on a program we all care greatly about. These attributes combined with a supportive board, alumni, and donors will truly benefit our work as we move KARL forward.”

Previously Sankey worked with the Kansas 4-H Foundation and at the Kansas State Fair, where she was general manager. She is a 20-year veteran of the non-profit sector with

experience in healthcare philanthropy and strategic growth, rural community involvement, and a corporate background with Cargill and Seaboard in quality assurance and food safety. She is a graduate of Texas A&M University with a degree in agricultural education and has a background in fundraising, organizational management, and leadership.

The KARL program is a non-profit, educational organization dedicated to developing leaders for agriculture, business and rural communities. More information is online at <http://www.karlprogram.com>. Applications to participate in the next class, KARL XV, will soon be available on the website and due on April 15, 2019.

Cargill introduces “cowboy robot” to help improve animal welfare and employee safety

Cargill has developed an industry-first robotic cattle driver aimed at improving animal welfare and employee safety. The robots are designed to move cattle from pens to the harvest area at the company’s processing plants, reducing stress to the animals by minimizing their proximity to human activity while improving employee safety.

According to Cargill’s announcement, employees operate the robots from a catwalk located above the pens, reducing safety risks

by keeping those who work in the cattle yard portions of plants at a greater distance from the 1,300-pound animals.

Cargill Protein spent two years developing the prototype, with significant input from animal welfare experts such as Temple Grandin, beef plant employees and engineers. Using waving automated arms, blowers and audio recordings to move cattle in a desired direction, the robots can operate in rain, snow or mud, with no delay in daily operations,

Cargill added.

“The robotic cattle driver developed by Cargill is a major innovation in the handling and welfare of farm animals,” said Grandin, professor of animal sciences at Colorado State University. “This device will lead to huge strides in employee safety while moving large animals and reduce the stress on cattle across the country.”

The robotic cattle drivers are currently being implemented at Cargill Protein beef plants in the U.S. and Canada. They are

Consumers prefer traditional protein, but plant-based gaining traction

Consumers prefer traditional sources of protein such as meat, eggs and dairy, according to new research from Nielsen; however, the study says that plant-based proteins are gaining traction, noting that 23 percent of consumers want more plant-based proteins on the shelves.

The research found that 39 percent of Americans are actively trying to incorporate more plant-based foods into their diets. The

study confirms the reasons for choosing plant-based proteins range from positive health effects to a need to avoid meat consumption in modern times. They also believe that plant-based proteins may

improve overall health and help with weight management. But while plant-based proteins are gaining traction, traditional protein sources still dominate in sales, accounting for \$148.7 billion.

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Langvardt wins World Livestock Auctioneer Championship qualifier, cont.

31 (10 from each qualifying event, one from the auctioneer competition at Calgary Stampede) are selected to compete in the WLAC. The championship consists of three stages: the regional qualifying events held at different markets around the country, followed by the semi-finals and the finals that are held each June in conjunction with the LMA Annual Convention. Contestants competing for the World Champion title must be 18 years old, employed as a livestock auctioneer and sponsored by a local auction market that shares in the favorable publicity generated by the winners.

LMA is proud to sponsor an event that brings together North America’s top livestock auctioneers in a competition that showcases professionalism and promotes the auction method of selling livestock.

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Kathy Hogue Shares Flavorful Recipe With G&G Area Cooks

Winner Kathy Hogue sends "this yummy recipe full of fall flavors. A little extra effort in the morning will be worth the smiling faces around the table your evening meal!"

FANCY FLANK STEAK

- 2 pounds flank steak
- 1/3 cup chopped onion
- 2 tablespoons olive oil
- 4 cups dry bread cubes
- 1/2 teaspoon poultry seasoning
- 1/2 teaspoon salt
- 1/2 teaspoon pepper
- 1/2 cup flour
- 1/4 cup olive oil
- 14 ounces stewed tomatoes
- 1 cup water
- 1/4 cup chopped onion
- 1/2 cup chopped red pepper
- 3/4 cup chopped celery
- 1/4 cup ketchup



Place steak between 2 pieces of cling wrap and roll out end to end with a rolling pin. Cook 1/3 cup onion in oil. Add bread cubes and seasonings. Toss until bread is toasted. Spread stuffing over steaks and roll up. Secure with toothpicks — count them! Roll in flour and brown in olive oil in a Dutch oven to prevent splatters. Mix tomatoes, water, onion, red pepper, celery and ketchup. Place steak rolls in a slow cooker. Cover with sauce. Cook on high 3 to 4 hours or low 7 hours.

- Lydia Miller, Westphalia, shares the following:
- ### BACKWOODS SPINACH SALAD
- 1/2 cup uncooked wild rice
 - 8 slices bacon, chopped
 - 1/4 cup apple cider vinegar
 - 1/4 teaspoon salt
 - 1/4 teaspoon pepper
 - 2 tablespoons honey
 - 4 cups torn spinach leaves
 - 1 cup sliced mushrooms
 - 1 cup sliced radishes

Cook wild rice according to package directions. Meanwhile in a large skillet, cook bacon over medium-high heat until browned. Drain bacon, reserving 2 tablespoons grease. Set aside bacon and reserved grease. In same skillet, stir together vinegar, salt, pepper, honey and reserved bacon grease. Cook over medium heat stirring occasionally until heated through (3 to 4 minutes). In a large bowl combine rice and bacon with spinach, mushrooms and radishes. Pour warm dressing over salad; toss and serve immediately. Makes 6 servings.

- Kellee George, Shawnee:
- ### SHREDDED CHICKEN TACOS
- (2) 8-ounce cans tomato sauce
 - 2 teaspoons white vinegar
 - 2 teaspoons minced garlic

- 3 1/2 teaspoons chili powder
 - 1 teaspoon ground cumin
 - 1/2 teaspoon sugar
 - Pepper to taste
 - 2 tablespoons olive oil
 - 2 pounds cooked chicken breasts, shredded
 - 12 corn tortillas
- Garnish: avocados, chopped tomatoes, chopped onions
- Mix all ingredients except chicken and garnish; heat on medium heat until heated through. Mix with chicken. Fill tortillas and garnish. Enjoy!

- Kimberly Edwards, Stillwater, Oklahoma:
- ### SAUTEED CINNAMON APPLES
- 1/4 cup butter
 - 4 large tart apples, peeled, cored & sliced into 1/4-inch slices
 - 1/2 cup cold water
 - 2 teaspoons cornstarch
 - 1/2 cup brown sugar
 - 1/2 teaspoon cinnamon
 - Vanilla ice cream
- Melt butter in a large skillet over medium heat. Add apples and cook stirring constantly until almost tender, 6-7 minutes. Stir water and cornstarch in a small bowl until smooth; add to skillet. Stir in brown sugar and cinnamon. Bring to a boil and cook 2 minutes stirring occasionally. Remove from heat and serve with ice cream.

Cooking Dry Beans Safely In Slow Cookers

By Cindy Williams, District Extension Agent, FACS

'Tis the season for soups and you might consider using a crockpot for this purpose. One popular soup ingredient is beans. Slow cookers are convenient for cooking a variety of foods. But, cooking certain dry beans in a slow cooker, could be toxic.

just about the time they might think of contacting their doctor.

Other types of beans also contain PHA, but it's a much more concentrated in red kidney beans. For example, the unit of measurement for the toxin is called "hau" for hemagglutinating unit. Raw red kidney beans have anywhere from 20,000 to 70,000 hau, but that drops to 200 to 400 hau when the beans are fully cooked — not enough to be a problem. White kidney beans, or cannellini beans, contain only about one-third of the toxin as red kidney beans. Broad beans, or fava beans, contain just 5 to 10 percent of what's in red kidney beans.

The problem isn't bacteria, but a compound called "phytohaemagglutinin," also called PHA, or kidney bean lectin. Lectin is a type of protein that performs many functions in both plants and animals. But some types of lectin, including this one, can be toxic at high levels.

The FDA recommends these steps for preparing dry red kidney beans:

If this lectin isn't destroyed by thorough cooking, you'll be sorry. According to the U.S. Food and Drug Administration's "Bad Bug Book," eating as few as four or five improperly cooked red kidney beans can cause severe vomiting within a few hours, followed by diarrhea.

*Soak beans for at least five hours in water. Change the water periodically, but it's not necessary for safety.

Although some cases have required hospitalization, people normally feel better within three to four hours after symptoms start. That's one reason why there aren't many recorded cases of this particular foodborne illness in the U.S. People usually begin to get over the illness

*Drain the beans from the final soaking water.

*Boil beans in fresh water for at least 30 minutes. Note: This toxin is destroyed when boiled at 212 degrees F for 10 minutes, but scientists recommend 30 minutes to be certain the beans reach the proper temperature for the amount of time necessary. Don't use a slow cooker; it likely won't get hot enough.

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LOCATION: From Randolph, travel approximately 3.5 miles south on Highway 77 to LK&W Rd. Turn west 1/2 mile and property is on the north side of the road.

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TRACT 2: The S2NE4, N2SE4 of Sec. 10-8-3, the SW4NW4, NW4SW4 of Sec. 11-8-3, all in Clay County, KS consisting of 236.08 acres.

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G&G Announces Its Annual Holiday Recipe Contest

Nov. 20 through Dec. 18

In observance of the holiday season, Grass & Grain will award the weekly winners \$35 in addition to the prize gift. Recipes received NOVEMBER 8 through DECEMBER 11 will be entered in the holiday contest. Enter as often as you like during this period.

BONUS DRAWING

Second chance to win! The names of all contestants will be entered in a drawing from which four names will be chosen. Each of these four contestants will receive \$35. Winners will be announced Dec. 18.

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: auctions@agpress.com

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ESTATE FARM MACHINERY AUCTION

SATURDAY, NOVEMBER 17, 2018 — 10:00 AM

Located 1 mi. North of RILEY, KS on Hwy. 24 to Homestead Rd., then 1 1/4 mi. East; OR from RANDOLPH, KS on Hwy. 77, go 9 mi. South to the Riley Corner (Hwy. 77 & 24) Jct. then 2 mi. West on Hwy. 24 to Walnut Creek Rd., then 1 1/2 mi. North to Homestead Rd., then 3/4 mi. West. LUNCH ON GROUNDS

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SATURDAY, NOVEMBER 10, 2018 • 10:00 AM

AUCTION LOCATION: Community Building, Swope Park, COTTONWOOD FALLS, KANSAS 66845

Seller: Family of the late T.G. & PEGGY STEPHENSON
LOCATION: Approximately 5.5 miles southwest of Elmdale, KS on Hwy. 50 or from Florence, KS approximately 12.5 miles northeast on Hwy. 50 to Camp Wood Road, take Camp Wood Road east approximately 1.3 miles to the northwest corner of the pasture on the south side of the road.

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By Cindy Williams, District Extension Agent, FACS

Whether it is a simple meal for two, or a large gathering with a buffet, food safety is a priority at any meal, and especially at the holidays. Nobody wants the gift of foodborne illness!

Are you the host for the holiday meal? Reduce your stress by starting a list now to plan the location, food and recipes, activities and games, and what your guests could bring. Put it in a timeline or on a calendar to stay on schedule.

Are you buying a fresh or frozen turkey? If you choose fresh, be sure to place an order with your grocer or butcher shop and pick it up 1-2 days before the meal. Frozen turkeys can be purchased any time and stored in the freezer. Pay attention to grocery sales to save some money.

Frozen turkeys are best thawed in the refrigerator or in cold water. In the refrigerator, plan on at least five days for a 20-pound turkey. In cold water, allow about 30 minutes per pound of turkey.

Do you only have one oven? Use a slow cooker for hot dishes. A table-top roaster oven can be used like a regular oven for many items. Even electric pressure cookers can cook up some tasty dishes! Some items, such as dessert or bread can be made ahead

and frozen.

When cooking the turkey, remember that 325 degrees F is the lowest oven temperature to safely cook turkey. Use a food thermometer to be sure it reaches a minimum internal temperature of 165 degrees F.

Freezing Yeast Dough

To save time during the holidays, or any time of year; prepare yeast dough ahead of time and freeze into dough balls or rolls to bake later. The trick is using a dough with extra yeast because slow freezing can damage yeast.

According to Fleischmann's Yeast, it is best to use dough recipes developed for freezing. These recipes are high in yeast and sugar and low in salt. It is recommended to use bread flour to help maintain bread structure. After preparing and kneading the dough, shape into rolls or flatten into a disk and wrap airtight. The dough can be frozen up to four weeks. When ready to use, thaw at room temperature or slowly in the refrigerator. Once thawed, shape, let rise, and bake as directed.

If you are needing some recipes for freezer dough, please give me a call and I would be happy to share this information with you. I can be reached at 785-863-2212.



One-Bowl/ Monster M&M Cookies
By Ashleigh Krispense

These cookies have quickly become a favorite thanks to being so easy to whip together and kid-friendly. One bowl, a few ingredients, and about 20 minutes from now, you could have some sitting on your counter!

- 3/4 cup butter, melted
- 1 cup brown sugar
- 1/2 cup white sugar
- 1 teaspoon vanilla
- 2 eggs
- 2 cups flour
- 1 teaspoon baking powder
- 1 cup dark chocolate chips
- 1 cup M&M candies



Start by combining the melted butter, sugars, and vanilla in a large bowl. Mix together thoroughly. Add eggs and mix again!



Stir in the flour and baking powder.



Once it's all mixed together, add in the good stuff! (Chocolate chips and M&Ms.)



Using roughly 1/3 cup of dough, roll into a ball and then flatten in the palm of your hand to around 1/2 inch thick.



(I could only fit six cookies at a time on a baking sheet!) Bake cookies on greased cookie sheet at 350 degrees for 7-10 minutes, depending on your oven.

Pull out as soon as they're done on the bottoms and let sit on the pan for at least 5 minutes. Once cooled, they should still be chewy! Enjoy!



Ashleigh is a freelance writer and blogger for her website, *Prairie Gal Cookin'* (www.prairiegalcookin.com).

She shares everything from step-by-step recipes and easy DIY projects, to local history, stories, and photography from out on the farm in Kansas.

Follow PGC online or like it on Facebook for more recipes and ramblings!



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24th Annual Wichita Farm and Ranch Show November 8th-10th

With agriculture facing another tough year, it is important for farmers and ranchers to stay up to date with the latest technology, to make their operation as efficient as possible. Fortunately for them, one local show has gathered the latest technology and

innovation in the farming industry and placed it all in one location.

Featuring 150 different exhibitors and over 250 booths, the Wichita Farm and Ranch Show is a well-organized way for farmers and ranchers to stay current. The advan-

tage of a trade show is the ability to have conversations face to face and get all your questions answered in one place. "You can only research so much, before you need that human interaction" said Brock Nelson, show director for the Wichita Farm

and Ranch Show.

The Wichita Farm and Ranch Show is a staple in the local community. This is the 24th year of the show, and the second year at its new location, The Kansas Star Event Center. The new facility is climate-controlled and well-lit for those cold November days. Cement floors make getting around the show easy for all. The Kan-

sas Star Event Center is attached to the Kansas Star Casino located eight miles south of Wichita on I-35, exit 33. Admission and parking are free. Look for MCT Trailers surrounding the Event Center Entrance on the east side of the buildings behind the hotel for easiest access.

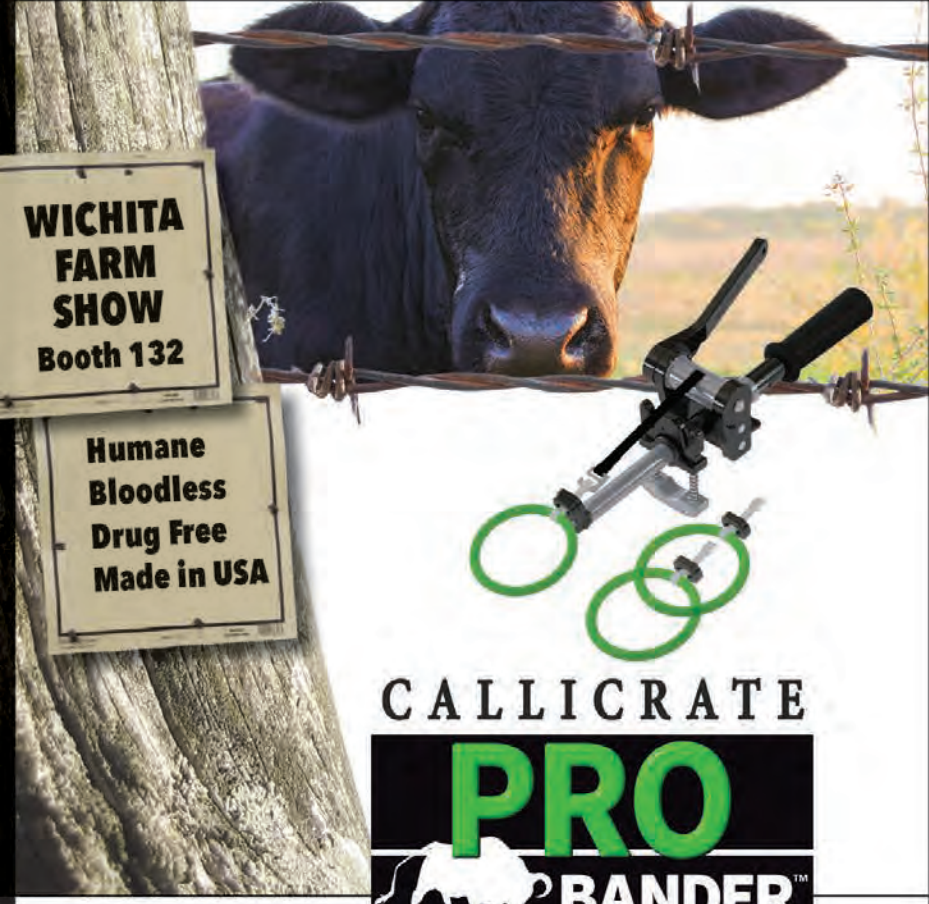
Register for the grand prize, a Louisiana LG 1100 Grill sponsored by Wich-

ita Tractor Co. You must be 18 or older to register and need not be present to win.

Learn more about the 2018 Wichita Farm and Ranch Show at www.Tradexpos.com

Show hours are Thursday, November 8th 9:00 a.m. to 5:00 p.m.; Friday, November 9th 9-5 and Saturday, November 10th 9-4.

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Soil Health Field Day to be held November 15

A Soil Health Field Day will be held 10:00 a.m. Thursday, November 15, 2018 at 1613 Pawnee Rd., McPherson. Several topics will be presented including a tire tank/solar pump demonstration and discussion by Herschel George,

KSRE watershed specialist. Next, Jaymelynn Farney, KSRE Extension specialist, will present the utilization of cover crops for grazing. And lastly, electric fence options will be presented by Gary Grasser with Zeitlow Distributing

Company. Lunch will be provided. RSVP by Friday, November 9, 2018 by calling Karen Borcharding at (785) 825-8269 ext. 337. This Soil Health Day has been sponsored by the Kansas Division of Conservation, the City of Wichita, K-State Research and Extension, Harvey County Conservation District, McPherson County Conservation District and Saline County Conservation District.



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Meinhardt crowned National Hereford Queen

Emily Meinhardt, Marysville, was crowned as the 2018-19 National Hereford Queen during the 2018 American Royal National Hereford Show in Kansas City Oct. 29.

Meinhardt will spend the next year in her new role as the face of the Hereford breed and an agriculture advocate setting a positive example for young women.

"I'm so excited to start my journey as the National Hereford Queen," Meinhardt said. "Though I have only been involved with the program for three years, I have always looked up to the queens as role models and I hope I can do that for someone else."

Meinhardt competed against ten other young women from across the U.S. for the title. The National Hereford Queen program is managed by the National Hereford Women. Queen candidates are evaluated on their involvement with and knowledge of the Hereford breed, behavior, attitude, appearance and interaction with producers, as well as their résumés and interviews. Judges look for a responsible, well-rounded young lady who is willing to



Emily Meinhardt was recently crowned the 2018-19 Hereford Queen during the American Royal National Hereford Show in Kansas City.

spend an entire year traveling across the country to represent the Hereford breed to her best ability.

First runner-up honors went to Melanie Fishel, Kernersville, N.C.; Kira Sayre, Arenzville, Ill., was named second runner-up; and Lillie Blissard, Water Valley, Miss., was selected as Miss Congeniality.

Meinhardt is the 20-year-old daughter of Bryndon and Julie Mein-

hardt and is a junior at Kansas State (K-State) University. At K-State she is studying agricultural communications and journalism with minors in animal science and industry and leadership studies. As a three-year member of her state association and the NJHA, she has been competitive in the showing and in the photography contest and has participated in the queen's tea.

Sheep and Goat meeting set for Nov. 20 in Parsons

K-State Research and Extension's Wildcat District is hosting a meeting that will focus on managing sheep and goats. The meeting will be held on Tuesday, Nov. 20th at the Southeast Research and Extension Center, located at 25092 Ness Road in Parsons. This event will begin with registration at 6:30 p.m. with the program set to begin at 6:45 p.m.

K-State Research and Extension sheep and goat specialist Dr. Alison Crane will begin the program with a presentation on

sheep and goat nutrition. Kurtis Gregory, DVM, of Columbus Veterinary Clinic, will discuss developing a year-round herd health program for goats as well as preparing and dealing with kidding. The program will wrap up with a similar discussion on sheep given by James Allen, DVM of Allen Veterinary Center of Parsons. Both Dr. Gregory and Dr. Allen manage their own flocks of goats and sheep and have many years of practical experience to share with producers.

More information about this meeting as well as others sponsored by the Wildcat District is available on the home page of our website <http://www.wildcatdistrict.ksu.edu> or you can contact Wildcat Extension District livestock & forage agent, Keith Martin at (620) 784-5337 or email him at rkmartin@ksu.edu

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AT KANSAS STATE UNIVERSITY

Page 8 Grass & Grain, November 6, 2018
Kansas Soybean Expo 2019 will include interstate, international issues

Kansas soybean farmers and their industry partners will gather Jan. 9, 2019, in Topeka for the Kansas Soybean Expo. The Kansas Soybean Association (KSA) organizes the annual event, with check-off funding from the Kansas Soybean Commission

(KSC), to coincide with the Topeka Farm Show. The free event returns to the Capitol Plaza Hotel's Maner Conference Center at the Kansas Expo Centre. Registration and exhibits open at 8:30 a.m., with the program scheduled from 9 a.m. to 3:45 p.m. A recep-

tion with KSA and KSC leaders will follow. The welcome will come from KSA president Lucas Heinen, Everest, and KSC chairman Kurt Maurath, Oakley. The opening session will offer check-off-partner updates. The first will be "The McClellan-Kerr Arkansas River Navigation System: What It Means to Kansas" from Thaddeus Babb, waterways program manager for the Oklahoma Department of Transportation. Next will be Ed Anderson, Ph.D., executive director of the North Central Soybean Research Program, with a presentation titled "Leading the Research Effort."

Promising a unique keynote address, Bob Farmer entertains, educates and motivates all types of audiences across the country. He has been called a good mix of Jerry Clower and Garrison Keillor. He is a member of the International Society of Storytellers, and Zig Ziglar sponsored his joining the prestigious National Speakers Association more than 20 years ago.

Rich in American heritage and steeped with tradition, the *Farmers' Almanac* is one of the nation's oldest, most respected publications. Farmer brings that national treasure alive with his down-home style of humorous storytelling. Like the *Almanac*, his talks are laced with anecdotes and remedies, and his practical tips for better communication have helped businesses and individuals from coast to coast.

Tom Brand, executive director of the National Association of Farm Broadcasting, will be master of ceremonies at the luncheon. U.S. Rep. Lynn Jenkins has been invited to be the featured speaker there. KSA and KSC then will present awards and recognitions, including the 2019 Young Leaders. Next, Heinen will preside over the association's annual meeting, which will include the approval of policy resolutions and director elections.

Following lunch, KSA will announce the Kansas Soybean Yield and Value Contests winners. The next three updates will come from K-State Research and Extension. Bill Schapaugh, Ph.D., soybean breeder, will present "Increasing the Rate of Genetic Gain for Yield in Soybean-breeding Programs." Dallas Peterson, Ph.D., weed-science specialist, will lead "Dicamba: A Look Back and a Look Ahead." Joe Janzen, Ph.D., assistant professor of agricultural economics, will offer "Soybean Price Outlook: How Low for How Long?"

A complete, detailed agenda and the preregistration form are available at <http://KansasSoybeans.org/expo> on the web or by calling 877-KS-SOYBEAN (877-577-6923). Those who preregister by Jan. 2, 2019, will have guaranteed seats at the luncheon and be eligible for the early-bird prize drawing.

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Thurs, November 15: 6PM
Auction Location: 201 E Central, El Dorado, KS-Civic Center

David Sundgren 316.322.5555
 Colette Flaharty 620.255.9735
 Kellie Nesmith 808.295.0214

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REAL ESTATE AUCTION
312.6 Acres, m/l, of Northern Flint Hills Native Grass Pasture
SATURDAY, DECEMBER 1, 2018 — 2:00 PM

AUCTION LOCATION: St. Columbkille's Parish Hall, 13305 Hwy. 16, BLAINE, KANSAS

PROPERTY LOCATION: From *Fostoria, KS* on Hwy 16, go 3.7 miles North on Spring Creek Rd. to Bucksnot Rd., then 3/10 mile East. Tract 2 is on the South side of Bucksnot Rd. and Tract 1 is on the North side of Bucksnot Rd. and runs for a mile to the East. Cottontail Lane borders Tract 1 on the East side.

LEGAL DESCRIPTION: The South Half of the Section 27, Township 6 South, Range 8 East of the 6th PM, Pottawatomie County, KS.

TRACT 1 - Consists of 299 acres, M/L, of mostly clean Native grass pasture with 2 wooded draw areas and 1 grove of trees. This property has 3 concrete spring tanks and 1 pond for water sources plus a corral. The larger draw offers good wildlife habitat.

TRACT 2 - 13.6 acres, M/L, consisting of Native grass meadow, some low tillable farmland and hardwood timber. Tract 2 offers building site potential with a rural water line (no meter), fiber optic cable and an electric line, in close proximity. The hardwood timber offers good wildlife habitat.

AUCTIONEER'S NOTE: If you are looking for a Native Grass Pasture with a scenic view or a cabin building site, COME TAKE A LOOK AT THIS PROPERTY.

For more info or viewing, please call John E. Cline, 785-532-8381. For pictures, check our website: www.mcclivestock.com/clinerealty

Terms & Possession: The Seller requires 10% down day of sale with the balance to be due on January 3, 2019. Possession to be upon closing. Buyer/s and Seller/s to equally split the title insurance and closing costs. Statements made sale day take precedence over printed material. Sale subject to seller's confirmation. Cline Realty and Auction, LLC represents the Seller's interest.

SELLER: LYLE GOODMAN ESTATE

Auction Conducted By: **CLINE REALTY & AUCTION, LLC**
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EQUIPMENT AUCTION
SATURDAY, NOVEMBER 17, 2018 • 1:00 PM

AUCTION LOCATION: 3350 CC Road — MADISON, KS 66860

SELLERS: ED & MICHELLE HUBER

PREVIEW will be Friday, Nov. 16, 2018, 1-6 pm.
 For more information, call Ed at 620-437-6021.

DIRECTIONS: From Madison, Ks on Hwy 58 approximately 5 miles east to CC Rd, then 1.5 miles south to the auction site on east side of county road. **WATCH FOR SIGNS.**

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See last week's Grass & Grain for listings & please go to www.GriffinRealEstateAuction.com for pictures!

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REAL ESTATE AUCTION
TUESDAY, NOVEMBER 20, 2018 — 7:00 PM
Auction will be held at the Downs Senior Center — DOWNS, KANSAS

Legal Description: SE ¼ 7-6-13 & SW ¼ & S½ SE ¼ 8-6-13 & NW ¼ & N ½ NE ¼ 17-6-13 & N ½ N ½ SW 1/4, S ½ NE ¼ & N ½ SE ¼ 17-6-13 Osborne Co. Kansas
 For a total of 737 acres.

The farm is located ½ Mile South of Portis, Kansas then 5 miles West on Co Road 362 Dr. then 1 South on Co Road 671 Ave. Corrals are 6 miles West on Co. Road 362 Dr. then ½ South, The road on East side is graveled, the road to corrals is graveled. The farm is all grass with 7 ponds and 2 wells. The South side has new fence, there are divide fences on the farm. Seller will pay 2018 and all prior year's taxes. Purchaser will pay 2019 taxes. 2017 taxes were \$1,016.84

Possession: Possession will be upon closing.

Terms: 10% of purchase price as down payment day of auction, the balance will be due upon closing on or before December 30, 2018. Down payment will be escrowed with Gregory Law Office. Escrow fees will be split 50/50 between seller & purchaser. Title insurance will be used, the cost will be split 50/50 between seller & purchaser.

Thummel Real Estate & Auction LLC is acting as seller agent. All statements made day of auction take precedence over printed material.

DWIGHT STREIT
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC
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| Big Square Bale Feeders | \$575.00 | | |
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AROUND KANSAS



Well, Halloween is behind us and the holidays are upon us. Like many of you our calendars are full... full of wonderful events and wonderful people!

Lecompton was voted a "a Best Small Town" in Kansas by the readers of KANSAS! magazine. Lecompton has been a favorite of mine since I arrived in Kansas, and the Christmas season is just one of the reasons why.

the many volunteers shows in Lecompton every day, but especially now.

During the weeks of preparation, the boxes and cartons of decorations gave the appearance of Santa's workshop rather than a history museum. As Paul Bahnmaier, president of the Lecompton Historical Society, pointed out, though, there is history in the ornaments and trees, too. He opened the glass case in which the fragile feather tree is displayed. Like many Christmas traditions, including the Christmas tree itself, the feather tree has its origins in Germany. They were made in the 1880s and 1890s from a center dowel with dyed green goose feathers forming the branches. Many of the fragile glass ornaments are light as a feather and come from Germany as well. Other ornaments are Scandinavian or Czech. The variety of Christmas trees ranges from tiny tabletop vintage trees, including brush trees from the 1940s, a small, pink Barbie tree, and the 15-foot cedar that is the focal point of the chapel upstairs. Volunteers estimate there are at least five

thousand ornaments used to decorate the trees but add that the number increases because donations continue to come to the museum.

The third-floor chapel is also where the Christmas Vespers is held, always a standing-room-only crowd.

This exhibit has become a regular part of many folks' holiday traditions and the Lecompton Historical Society anticipates large crowds for this one. Group tours are welcome. The exhibit opened November 1 and will be up through New Year's Day.

Lane University was originally intended to be the state capitol and when that honor went to Topeka instead, the building was finished and turned into a university.

The very colorful and controversial first Kansas senator Jim Lane pledged funds for the school and it was named in his honor.

It is now the home of the Territorial Capital museum of the Lecompton Historical Society, and

along with the Constitution Hall State Historic Site and the Democratic Headquarters, is crucial in the telling the story of the Kansas Territory.

The building is handicapped accessible and Please feel free to call the museum staff at 785-887-6148 for particulars.

Gift shops are in both of the museums in Lecompton. They carry all kinds of great books, souvenirs, and gifts. Located on the bluffs of the Kaw, Lecompton offers gorgeous views of the river. There are restaurants for lunch and shops in which to browse and buy.

Another site that is transformed for the holidays is Fort Scott National Historic Site. The annual candlelight tour will be held the nights of December 7 and 8. If you have never attended this event, put it on your bucket list. Historic vignettes are taking place in each building and the visitor just happens upon another time. Simply one of the best events anywhere. The volunteers again work so hard to make this an outstanding event!!! There is a fee and reservations are required. Call early.

On December 9, we will hold a Christmas Open House at the Fort Wallace Museum. The museum's facades of Old Fort Wallace and the town of Wallace will be decorated for the holidays and the Rhea Organ Collection will be outfitted as well, with organists playing Christmas music throughout the day. Special candlelight service at Bethany Lutheran Church on the museum grounds. We hope to see

you there.

In the meantime, on November 11 at 4 p.m., our long-awaited film *Thof's Dragon* makes its debut at the Palace Theater in Oakley. A reception will follow at the Fick Fossil Museum. Sponsored by the Fick Fossil Museum and the Guardians of Fort Wallace, both events are free and open to the public.

It is a busy season all Around Kansas. Try to slow down and enjoy!

Deb Goodrich is the *Garvey Historian in Residence at Fort Wallace Museum and the cohost of the Around Kansas TV Show. Contact her at author.debgoodrich@gmail.com.*

2 REAL ESTATE AUCTIONS

618.22 Acres, M/L, of NEMAHA and JACKSON Counties Farmland

FRIDAY, NOVEMBER 23, 2018 — 1:30 PM

AUCTION LOCATION: Nemaha Co. Comm. Center, 1500 Community Drive — SENECA, KANSAS

310.72 ac., M/L Nemaha Co. Farmland

(To be offered in 2 tracts)

TRACT 1

Legal Description: The Southeast Quarter of Section 13, Township 3 South, Range 11 East, less a tract.

This property consists of 152.45 taxable acres, of which 144.35 acres are terraced cropland. The balance is waterways and wildlife habitat, per FSA records. This property lays well with a gentle slope and has good access. This property is located on the Northwest corner of Hwy. 187 and 120th Rd.

TRACT 2

Legal Description: The Southwest Quarter of Section 34, Township 2 South, Range 13 East, Nemaha County, KS.

This property consists of 158.27 taxable acres, M/L, with 154 acres of terraced cropland, per FSA records. This property is located on the Northeast corner of 144th Rd. and "P" Rd.

SELLER: ALFRED ROEDER TRUST

SATURDAY, NOVEMBER 24, 2018 — 1:30 PM

AUCTION LOCATION: Hoyt Community Center — HOYT, KS

(From the North side of Hoyt on 214 Hwy., go East and South on Park Dr. to Community Center)

307.5 ac., M/L, Jackson Co. Farmland

(To be offered in 3 tracts)

TRACT 1

Legal Description: The Southwest Fractional Quarter of Section 31, Township 9 South, Range 15 East, Jackson County, KS

This property consists of 147.5 acres, M/L, with 136.2 acres of terraced, upland crop acres with the balance waterways and wildlife habitat, per FSA records. This property is located from the Jct. of Hwy. 75 and 110th Rd., (Hoyt, KS), 4 miles West on 110th Rd. to "N" Rd., then 2 miles South to 94th Rd. This property is on the East side of "N" Rd. and the North side of 94th Rd.

TRACT 2 - (Located directly East of Tract 1)

Legal Description: The Southeast Quarter of Section 31, Township 9 South, Range 15 East, Jackson County, KS

This property consists of 160 acres, M/L, with 140.04 terraced, upland crop acres with the balance draws and wildlife habitat, per FSA records.

TRACT 3 - Combination of Tract 1 and Tract 2

SELLER: ALFRED ROEDER TRUST & DARLENE ROEDER TRUST

For more info. or viewing, please call

John E. Cline, 785-532-8381 or check website at:

www.mcclivestock.com/clinerealty

Terms & Possession: The sellers require 10% down payment day of sale. The Nemaha Co. balance to be paid on or before December 21, 2018. The Jackson Co. balance to be on or before December 27, 2018. Possession will be upon closing. Buyers and sellers to equally split title insurance and closing costs. Sellers to pay 2018 taxes in full. Statements made sale day take precedence over printed material. Sale subject to Seller's confirmation. Cline Realty and Auction represents the sellers' interests.

Auction Conducted By: **CLINE REALTY & AUCTION, LLC**

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LAND AUCTION • NEMAHA COUNTY, KS

SATURDAY, DECEMBER 1, 2018 — 10:30 AM

LOCATION: Nemaha County Community Center, 1500 Community Drive — SENECA, KANSAS

TRACT 1 - 157 ACRES M/L

Land Location: From the east edge of Seneca, KS. Take Hwy 63 10 miles north to 232 Rd, turn west 1 mile. Property Starts on south side of 232 Rd.

Legal Description: NE 1/4 Sec 9, TWP 1, Range 12 Nemaha Township, Nemaha County Kansas

General Description: Property has approximately 146 acres of tillable farm ground. 10 acres of CRP land at 64.25 per acre till 9-30-2019 contract ending date.

TRACT 2 - 152 ACRES M/L

Land Location: From the east edge of Seneca, KS. Take Hwy 63 10 miles north to 232 Rd, turn west 1 1/2 miles. Property starts on south side of 232 Rd.

Legal Description: NW 1/4 Sec 9, TWP 1, Range 12 (Less approximately 8 acre tract that includes a home and farm buildings) Nemaha Township, Nemaha County Kansas

General Description: Property has approximately 112 acres of tillable farm ground. 11 acres of CRP land at 64.25 per acre till 9-30-2019 contract ending date. Residential home and farm Buildings are not included in the sale of this tract 2 approximately 8 acres.

TRACT 3 - 157 ACRES M/L

Land Location: From the east edge of Seneca, KS. Take Hwy 63 9 miles north to 224 Rd, turn west 1 1/2 miles. Property Starts on north side of 224 Rd.

Legal Description: SW 1/4 Sec 9, TWP 1, Range 12 Nemaha Township, Nemaha County Kansas

General Description: Property has approximately 100 acres of tillable farm ground. Balance grass strips and waterway.

TRACT 4 - 157 ACRES M/L

Land Location: From the east edge of Seneca, KS. Take Hwy 63 9 miles north to 224 Rd, turn west 1 mile. Property Starts on north side of 224 Rd.

Legal Description: SE 1/4 Sec 9, TWP 1, Range 12 Nemaha Township, Nemaha County Kansas

General Description: Property has approximately 85 acres of tillable farm ground. Balance hay ground and waterways.

AUCTIONEER'S NOTE: Tract 1, 2, 3 and 4 will be auctioned separately and will not be combined to sell as 1 unit.

Real Estate Firm Comment: These 4 tracts have been farmed together. The sellers at their expense, will survey these tracts after fall harvest, but before sale date. After the completion of survey, we will revise the acreage of each tract. The sellers and tenants of this land have always practiced and maintained good conservation ways. The farms have out-let terraces and all other resources available to reduce erosion.

Terms: 10% down auction day with balance due on January 5, 2019. Possession to be upon closing. Buyer and seller to equally split title insurance expense. Seller will be responsible for taxes to closing date. Buyer and seller will equally split closing costs of Nemaha County Abstract Title Co. Statements day of sale take precedence over printed material. Seneca Realty Represents sellers interest.

SELLER: LAZY D RANCH • Heirs of Les Droge

Auction Conducted by: **SENECA REALTY, INC.**
Mike Kuckelman - Broker, 785-294-1038
Dale Wilhelm - Auctioneer/Sales, 785-294-8569
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Take steps for proper soil sample collection

By Jeri Geren, Diversified Agriculture and Natural Resources, Wildcat District
 Just like maintaining or servicing equipment, soil testing should become a routine examination of soil health. Correct soil sampling in the field is essential for an accurate and repeatable soil test, and consequently for an

optimum nutrient management program. To obtain a proper collection, there are a few guidelines to follow.
 • Start with the right equipment: You will need a sampling tube, auger, spade and a clean bucket. In addition, a few plastic bags or soil collection bags obtained from your local extension office will be

needed to put the collected soil in.
 • Map it out: Draw a map of the sample area and divide it into uniform areas. Each area should have the same soil texture, color, slope and fertilization and cropping history.
 • Start sampling: For the standard pH, buffer pH, P and K test, sample six inches deep and take 20 to 30 cores or slices from each area. Moving in a zig-zag across the area will help to get a more

representative sample. Mix thoroughly in the clean bucket. Fill your soil collection bags from this mixture. For available nitrogen, chloride or sulfur tests, take the same number of cores, but a subsoil sample to a depth 24 inches is necessary. It is also important to note that if a zinc test is requested, use a plastic bucket for soil collection as galvanized or rubber materials may contaminate the results.
 • Places to avoid: Avoid

taking samples from old fencerows, dead furrows, low spots, feeding areas or other areas that might give unusual results. If information is desired from these unusual areas, obtain a separate sample from that area.
 • Label: Be sure to label the soil container clearly. When filling out a soil information sheet at the extension office, name the samples so that it will be memorable at a future date. Keep records as to where the soil samples were taken and the name that was given for each sample.
 • Send samples: Once all the soil is collected from the desired areas, take the samples to your local K-State Research and Extension office. They will forward the samples to the K-State Soil Testing Laboratory to be analyzed. Generally, expect results back within two weeks.

If questioning how many soil cores will work for a sample, taking several cores or slices of soil in smaller sampling areas will give a more accurate assessment as opposed to taking a few soil samples in a large area. Also, if taking soil samples on a regular basis, be sure to collect samples during the same time of year such as always in the fall or always in the spring. Since nutrient levels vary in different times of the year, having a uniform sampling time will allow you to compare results from year to year.
 To gain a better understanding of the soil health in your fields, a properly collected soil sample is essential. Always remember the worst soil test is the one not taken.
 For more information, contact Jeri Geren, Diversified Agriculture and Natural Resources, jlsigle@ksu.edu, (620) 331-2690.

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LAND AUCTION

SATURDAY, NOVEMBER 10, 2018 — 10:00 AM
 Oketo City Hall, 106 Center St. — OKETO, KANSAS

214.33 ACRES ± MARSHALL COUNTY, KS LAND
 TRACT 1: ACRES 136.25 LESS R/W & (DOES NOT INCLUDE approx. 4.5 + acres Home & Buildings Site).
 TRACT 2: ACRES 78.08 LESS R/W
RARELY does property offering 77 Hwy. frontage come available at public auction. Contact Jerrod Prebyl - 785-927-0325
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See Oct. 23 or Oct. 30 Grass & Grain for more details!
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REAL ESTATE & PERSONAL PROPERTY AUCTION
SATURDAY, NOVEMBER 10, 2018
 9:00 AM: Personal Property • NOON: REAL ESTATE & Mini Van
 National Guard Armory, Levee Dr. — MANHATTAN, KANSAS
 Property Address: 8940 E. Hwy. 24 — MANHATTAN, KANSAS
 REAL ESTATE consists of Residential & Commercial!
 VEHICLE: 2012 Chrysler Town & Country Touring Edition Van,
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 TERRI HOLLENBECK, Broker/Owner 785-223-2947

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AUCTION
THURSDAY, NOVEMBER 15, 2018 • 7:00 PM
 Auction held at Legion Hall — OLSBURG, KANSAS
391 Acres Well-Maintained Native Grass Pasture
 bordering Tuttle Creek Reservoir in
 Western Pottawatomie County, Kansas

DIRECTIONS: From Tuttle Creek Dam (NE of Manhattan), follow Hwy. KS 13 NE for 2 3/4 miles to Carnahan Rd, then NW for approx. 4 miles to Wildflower Road then South approx. 2 miles to the NE corner of the property. WATCH FOR REAL ESTATE SIGNS!
For a Showing, Please call Steve Murray, 785-556-4354
LEGAL: Tract in 35-8-7 in Pottawatomie County, KS
Auctioneer's Notes: This is a FANTASTIC property with Beautiful Hilly Terrain and the most Breath-Taking Views of Tuttle Creek imaginable. The grass has had great care with annual spring burns to maintain its quality. This will be the first ownership change since the building of Tuttle Creek. Many options available.
TERMS: 10% earnest money the day of the auction with the remainder at closing on or before December 18, 2018. Title insurance and escrow fees to be shared equally. The sale is not contingent on financing and all inspections should be conducted prior to the auction at bidder's expense. Murray Auction and Realty is acting as an agent for the seller. All information obtained from sources deemed to be reliable but not guaranteed. Statements made day of auction take precedence over printed material. Bank Letter of Credit Required to obtain Bidding Number.

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ON THE EDGE OF COMMON SENSE

Peasants Hunting Pheasants

Each fall, the governor of the great state of South Dakota hosts his Invitational Pheasant Hunt. This is meant to be a way to show off South Dakota's state bird, their pride and joy, the wily pheasant. It's also a means of attracting some special guests from out of state to look into the possibilities of investing money and business into the state. Well, it worked. High-rollers from as far away as New York came to celebrate and join the hunt.

Now, lots of these fellers were good hunters, but a lot (like yours truly) couldn't hit a slow-moving freight train with a bucket of Pratt & Lambert.

They split us into teams. Mine was called Custer's Last Chance and Bugle Corps. They hauled us out into the beautiful, rollin' grain fields in Tripp County halfway between Dog Ear and Old Lodge Creek.

Very quickly we formed into a cohesive family unit. If you've ever seen a troop of baboons high on bus fumes, you'll be able to picture it. We lined up in a company front at the end of a milo field. It was as straight as a cracked windshield. At the signal from Wes, our team leader, we invaded the field with the precision and practiced skill of the Houston Oilers backfield coming ashore at the Bay of Pigs!

When we reached the end of the field I caught up with Russ. Russ is a big, big feller. He had on camouflage pants, a fluorescent hunting jacket, rubber boots and a yellow cap. He looked like a whitewater raft. He was pointing out a Cadillac limousine parked out in the field. One of the South Dakota hosts had brought a load of celebrity hunters down in it. We had been told that each team had a Fish & Game guide, a paramedic and a radio dispatched helicopter pilot standing by at our immediate service, so I didn't think it unusual for a funeral director to be on call either.

I saw SUPERPHEASANT! Yes, friends, he burst out of the cover and flew directly across our firing line of 12 hunters. Thirteen explosions followed, the last one being the pheasant breaking the sound barrier on his way to North Dakota - untouched by man-made projectiles!

Wes was an experienced bird hunter and bagged a pheasant, a grouse and a prairie chicken. I was impressed. He said, "Now, if I can jes' git a medda lark. I'll have a Minnesota Grand Slam!"

I asked him how medda lark tasted. "Oh, " he said, "bout like a owl." www.baxterblack.com

What's in a name? Survey explores consumers' comprehension of milk and non-dairy alternatives

As the U.S. Food and Drug Administration considers a proposal "to provide greater clarity on appropriate labeling of plant-based alternatives" to milk and dairy products, a new survey by the International Food Information Council (IFIC) Foundation shows a low level of consumer confusion over nomenclature and basic differences between the two.

According to the survey, about three-quarters of Americans understand that plant-based "milk" products do not actually contain cow's milk (75 percent for soy milk and almond milk, 74 percent for coconut milk, 73 percent for rice milk and 72 percent for cashew milk). Fewer than 10 percent believe that any of those products contains cow's milk, while the remainder say they don't know (20 percent for cashew milk and rice milk, 18 percent for coconut milk, and 16 percent for soy milk and almond milk).

Conversely, large majorities know that products labeled "whole milk" (90

percent), "chocolate milk" (85 percent), "nonfat milk" (78 percent) and "skim milk" (74 percent) contain cow's milk, although that number falls to 48 percent for "lactose-free milk."

Consumers expressed similar awareness about whether various products labeled as milks or butters contained cow's milk or plant-based ingredients. Cow's milk was identified as an ingredient in chocolate milk by 84 percent of respondents, in organic milk by 78 percent and in butter by 77 percent, with only 8 percent or less believing that any of them contains plant-based ingredients. For lactose-free milk, 62 percent believe it contains cow's milk and 14 percent cite plant-based ingredients.

The survey also asked about consumers' purchases in the past three months. Nearly half (45 percent) bought 2 percent milk, with 38 percent for whole milk, 30 percent for almond milk, 29 percent for chocolate milk, 19 percent for 1 percent milk, 16 percent for both skim milk

and soy milk, and less than 10 percent for lactose-free milk or other nut- or grain-based milks.

Of those who buy products marketed as milks, 62 percent purchase solely dairy, while 38 percent purchase non-dairy. Groups who are more likely than others to buy non-dairy products include people in the western United States (45 percent), consumers under 45 years old (43 percent), people of color (48 percent compared to 32 percent of white people) and those with a college education (44 percent, compared to 30 percent of non-college graduates).

Methodology

Survey results were derived from online interviews of 1,000 U.S. adults, conducted Aug. 4-6, 2018, by Lincoln Park Strategies. Results were weighted to ensure proportional representation of the population, with a margin of error of +/- 3.1 points at the 95 percent confidence level. The research was supported by Danone North America PBC.

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EARLY CONSIGNMENTS FOR THURSDAY, NOVEMBER 8 28 black & BWF str & hfrs, homeraised no implants spring vacc 350-650; 85 blk Angus str & hfrs, knife cut homeraised fall vacc 500-700; 150 blk str & hfrs, 450-600; 121 blk str, home raised all vaccs off grass 775-850; 15 blk str & hfrs, fall vacc 350-500; 15 hfrs, off grass open 800.

EARLY CONSIGNMENTS FOR TUESDAY, NOVEMBER 20, SPECIAL COW SALE COWS: 300 3yr olds bred to Angus; 20 old cows bred to Angus; 150 black ad red Angus bred cows, bred to black Deer Run Angus bulls 3-5 yrs old; 15 black and red Angus cows 3-5 yrs old weaned big calves bred to McCurry Bros bull or red Angus bull; 125 black and red Angus 3-5 yr old Spring bred; 40 black and red Angus bred cows bred to Swanson Balancer bulls 3-5 yrs old; 20 black older cows bred to Red Angus; 14 red Angus 4 yr olds North Dakota origin bred to Ponderosa Red Angus bulls; 35 Black and BWF 3-5 yr old bred to black Feb calvers; 70 black and BWF 6 to older cows bred to Gardiner Angus of Upstream Ranch Herefords wormed and vacc; 35 black and BWF 10 yr olds bred to Sons of Network wormed and vacc; 5 spring bred 4 yr olds; 68 Black and BWF cows 5 to older spring bred to Herefords; 100 black cows 8 to older Gardiner genetics or home raised bred to Gardiner bulls start calving Feb 8; 30 black cows running age bred to Sim/Angus spring calvers; 12 black fall pairs 3-5 yrs old calves worked; 50 3-5 yr olds spring bred black cows bred to Dale Banks Angus or B&D Herefords. HEIFERS: 82 black heifers Leachman and Connelly sired bred Ponderosa Red Angus 1 iron; 7 black heifers bred McCurry LBW bull off McClure Ranch OCHV'd; 45 Red Angus heifers AI bred to Son of Redemption cleaned up with Sons of redemption 60 day calving period; 68 black heifers off 1 ranch 2 rnd vacc bred to sons of 10X and Full Throttle start calving Feb 4; 90 Red Angus heifers home raised bred to LBW Mushrush Red Angus bulls in may 15 calve Feb 21st for 60 days scourguard; 102 black and BWF heifers bred to Red Angus bulls selected for calving ease with high growth EPD's bulls in May 10 for 60 days; 47 Angus heifers one iron Stroberg Origin OCHV'd bred to Gardiner Angus Feb 25th for 60 days.

Table listing livestock items for sale including sows, calves, and bulls with prices and consignor names.

RECEIPTS FOR THE WEEK TOTALLED 6,372 CATTLE & 136 HOGS.

Table with columns for weight ranges (e.g., 300-400) and prices for STEERS and HEIFERS.

THURSDAY, NOV. 1 FEEDER SALE: STEERS

Table listing cattle for sale with details like name (e.g., Randall, Salina), weight, and price.

Table listing cattle for sale with details like name (e.g., Sterling, Brookville), weight, and price.

Table listing cattle for sale with details like name (e.g., Hope, Danville), weight, and price.

MONDAY, OCT. 29 CATTLE & HOG SALE: HOGS

Table listing hogs for sale with details like name (e.g., Leonardville, McPherson) and price.

SUNDAY TOP 20 SELLERS

Table listing top-selling livestock items with columns for lot number, consignor, horse name, sire, dam, association, notes, price, and averages.

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 Lisa Long 620-553-2351 Cody Schafer 620-381-1050 Roxbury, KS Ellsworth, KS Durham, KS

Kenny Briscoe 785-658-7386 Kevin Henke H: 785-729-3473, C: 785-565-3525 Agenda, KS

Check our listings each week on our website at www.fandrlive.com

