



Cattlemen's Day highlights new advances in beef industry

By Pat Melgares

A leading official for one of the United States' leading providers of cattle genetics told producers Friday, March 6 that the future is very bright for their industry.

Lorna Marshall, vice president of beef programs for Select Sires of Plain City, Ohio, gave a lively, one-hour talk during the 107th annual Cattlemen's Day, held at Kansas State University. Officials said there were more than 600 producers from Kansas and nearby states that registered for this year's event.

"I think the beef industry will have to be very progressive in terms of some of the genetic and reproductive technologies that we adopt to remain competitive within the U.S. market and the global market," Marshall said. "The neat thing is that the technology is there for us to be very competitive with other protein sources."

Marshall talked about such advancements as molecular genetics, gene editing, embryo transfer and a better understanding of observable traits (phenotypes) in beef cattle that are helping to move the industry forward.

But, she said, "If you think the change has been dramatic over the last five years, I think it's getting ready to change at a much faster pace going forward because of several things that are happening to the genetics side of the business from outside pressures that we're having to work around and adopt."

Two challenges Marshall talked about were management practices, especially labor involved in raising beef cattle; and consumer's demands to know how their beef is being raised.

"With social media



Lorna Marshall, vice president of beef programs for Select Sires, discussed changes in the cattle industry at Cattlemen's Day, held March 6 at Kansas State University in Manhattan.

today, we are more transparent than we ever have been in the past, so we are going to have to be more responsive to consumer demands," Marshall said. "The cool thing is that with today's technologies we can positively impact both consumer demands and management practices to make our industry more competitive."

Marshall added, though, that advancements in genetics are not currently the greatest opportunity for U.S. beef producers: "I think the greatest opportunity in the beef industry is traceability (the ability to follow an animal or group of animals through the supply chain)," she said. "The consumer wants that from us. The side benefit of having a more traceable product is it's going to identify places where we can be more efficient and do a better job of meeting the customer's demands."

Marshall's talk was one

of the highlights in a day geared to discuss advancements in the beef industry and what the future might look like.

"It's really impressive," said Mike Day, head of K-State's Department of Animal Sciences and Industry, which hosts the event. "I think this is one of those events that is unique to Kansas State and only a few other places, where producers are willing to come to Manhattan and attend these in full force."

Among other highlights, Oklahoma State University livestock economist Derrell Peel gave an update on the world's export and import markets for beef cattle, citing access to China as a great opportunity for U.S. producers.

"We don't have to try to dominate the Chinese market," Peel said. "Given where it's at, and how it's been growing, if we could get 2% or 5% of that market, that's a really big

time. The Chinese market is a big market, and if you can get even 1% of a big market, that's a bunch."

"We are slowly getting back to marketing U.S. beef in China," he added.

Mike Ehrlich, a cow-calf producer from Marion, said he attended Cattlemen's Day this year to learn about "cattle health and vaccines. And more profitability would always be nice."

John and Shannon Wertzberger, a husband and wife team who own Wertzberger Ranch Equipment in Alma, were among three dozen vendors showing their products. But the Wertzbergers said they had a little time to visit other booths and gather information for their own cattle operation.

In addition to morning talks by Marshall and Peel, this year's Cattlemen's Day offered breakout sessions on reproduction, calving, ruminant digestion, factors influencing the sale of calves, forage sam-

pling and more. As part of the weekend, K-State also hosted the 50th annual Stockmen's Dinner on March 5, where Patsy Houghton of McCook, Nebraska, was recognized as 2020 Stockman of the Year; and the 43rd annual Legacy Bull and Female Sale March 6 at the Stanley Stout Center, north of the main campus.

"Cattlemen's Day allows us to stay in contact with stakeholders," said Ernie Minton, dean of K-State's College of Agriculture and director of K-State Research and Extension. "This event focuses on something that we all know is quite important to the state of Kansas and the region, so we're happy to bring educational programs, highlights on research and other things that bring us into contact with those people."

For more information on Cattlemen's Day, visit <https://www.asi.k-state.edu/events/cattlemens-day/index.html>

Photos by Donna Sullivan

deal for the U.S. industry. That would be more growth than we've seen in any other market in a long



Oklahoma State University livestock economist Derrell Peel spoke on world export and import markets, pointing to China as a prime opportunity for U.S. producers.

Hoy presents Chisholm Trail's influence on Kansas history

By Lucas Shivers

A packed audience enjoyed a presentation on the Old Chisholm Trail by Jim Hoy, professor emeritus of English at Emporia State University on March 5 at the Marianna Kistler Beach Museum of Art at K-State.

"In my opinion, without the Chisholm Trail, we would not have the American cowboy," said Hoy, who has researched the topic extensively and authored several books on the subject.

"Primarily men and boys have worked livestock on the back of horses for centuries around the world, but the American cowboy is part of the American culture as perhaps the greatest folk hero with the trail drives after the Civil War."

With cowboy poems,



The Chisholm Trail's influence on Kansas history was presented in stories and song by Jim Hoy, professor emeritus of English at Emporia State University.

Photo by Lucas Shivers

songs on his guitar, jokes and stories, Hoy entertained nearly 100 people with the details of Kansas cowboy culture.

"The cowboy is a genuine figure in American history," Hoy said. "In the 1870s, the big trail rides were where the cowboy acquired their name and status."

Hoy shared his personal family experiences and stories about the trail.

"In 1923, my father drove cattle on maybe one of the last Texas-to-Kansas trail drives," Hoy said. "Most herds left Texas in the spring and followed the spring north to Kansas."

Hoy's presentation connected to an art exhibit entitled "John Steuart Curry: The Cowboy Within" which ran Sept. 24, 2019 to March 21, 2020.

Chisholm Chronology

Hoy said Columbus brought cattle over on his second voyage. Over centuries, the Texas longhorns were descendants with the distinctive horns and tough nature.

"Cattle spread north along the Americas into Texas," Hoy said. "The Spanish encouraged settlement along the Rio Grande to push back the French, English and Americans."

Eventually, Mexico became its own independent county and then Texas became its own, before it became part of America. Along this journey, each country appropriated lots of cattle.

"To the victor belongs the spoils, as is standard procedure, especially with the land and livestock," Hoy said. "At that time, the cattle were primarily used

for their hides for leather and tallow for candles without lighting sources of oil or electricity. Only some were used for beef at that time."

However by the 1850s, ranchers started sending cattle east to beef markets by boats from New Orleans or Galveston, but most went via railroad from Chicago.

"Texans were starting to sell cattle widely with the Shawnee Trail at the time, but the market dried up due to the Civil War," Hoy said. "Very few cattle were being sold as there were no markets for the four years of the war. That didn't stop the cows from having calves."

The war came to an end with lots of cattle supplies,

and there was a sudden new demand for beef back East.

At the time, a steer would run \$2 but could be sold for \$40 in Chicago, so ranchers started moving cattle in larger numbers.

"The cattle for sale used some existing trails to drive north, but it ultimately became better

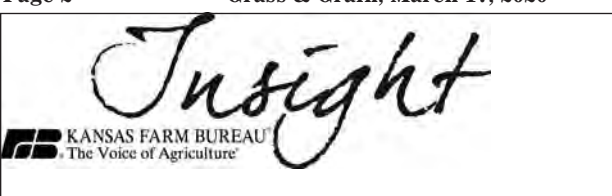
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A special visitor



Miss Rodeo USA Brooke Wallace, who was appearing in the Copeland Insurance booth at Equifest, stopped by the Grass & Grain booth to say hello.

Photo by Shelby Mall



Make It Count

By Greg Doering, Kansas Farm Bureau

In the coming days your household will receive an invitation to participate in the 2020 census. It's part of a constitutional mandate for the federal government to count every man, woman and child living in the United States. This has happened every decade since the initial census in 1790, shortly after the founding of our nation.

While the Constitution only requires a simple accounting of every living soul, the census has been used since its inception to gather other vital information about the nation's population.

Federal and state officials will use the data in numerous ways, including using it to allocate spending. Kansas stands to receive an estimated \$6 billion in federal aid over the next decade. That's our tax

money coming back to the state.

Answering the census also is the first step in choosing who will represent us in Topeka and Washington, D.C. because the information is used to reapportion U.S. congressional districts and will change the boundaries of all 165 Kansas representatives and senators for the next ten years.

Of course, the census will ask how many people were living in your household on April 1, also known as Census Day. Other questions include queries about your age, sex, race, what type of home you live in, whether you own or rent and your phone number in case there are

any questions about your responses.

The census has always been about more than just counting the population. The initial 1790 questionnaire asked for the name of the head of the family and the number of people living in the home delineated by the following: free white males 16 and older; free white males younger than 16; free white females; all other free people; and slaves.

That first survey recorded nearly 4 million people living in the original 13 states plus the districts of Kentucky and Vermont, in addition to the Southwest Territory (we now call it Tennessee). It was a daunting task to count everyone in our sprawling new nation.

While we've stopped adding states and territories, counting all 320-plus million of us is still a major undertaking, but it's been modified for today's technology.

This year will be the

first time you can choose to respond online or by phone. If you don't respond, you'll receive a paper form to complete and mail back. If you don't respond in any fashion, there's a good chance you'll receive an in-person visit from a census worker sometime between May and July.

Up to ten states could lose federal representatives. Seven are expected to gain congressional seats, led by Texas and Florida with at least three and two seats, respectively. Kansas will likely maintain is delegation of four representatives, but the lines will change.

If the past is prelude, Kansas' 1st Congressional District, which already touches part or all of 63 counties, will become even more expansive as people continue to move east and increasingly live in metro areas.

The official count will likely show Kansas' population grew slowly and

steadily between 2010 and now to just a little over 2.9 million. Five counties – Douglas, Johnson, Sedgwick, Shawnee and Wyandotte – account for more than half of our population.

That's a sobering reminder of just how important it is for those of us in the other 100 counties to make sure we're counted. We only get one chance every decade to say, "I'm here." In addition to apportionment, it will play a role in state and federal policy through the allotment of tax dollars to hospitals, fire departments, roads and other projects.

In short, it's an opportunity to make sure you count.

"Insight" is a weekly column published by Kansas Farm Bureau, the state's largest farm organization whose mission is to strengthen agriculture and the lives of Kansans through advocacy, education and service.

USDA announces continued progress on implementation of China Phase One agreement

U.S. Secretary of Agriculture Sonny Perdue announced that China has continued its progress in implementing the U.S.-China Phase One Economic and Trade Agreement and has taken several additional actions to realize its agriculture-related commitments. The agreement entered into force on February 14, 2020, and the actions announced build upon the measures announced on February 25. The most recent actions include:

Signing a protocol that allows the importation of fresh California nectarines (USDA's Animal and Plant Health Inspection Service will share details once they are finalized);

Conditionally lifting a ban on imports of beef and beef products from animals over 30 months of age (Lifting Restriction on U.S. Beef 30 Months and Over Announcement), subject to other relevant import requirements;

Updating lists of facilities approved for exporting dairy, infant formula, seafood, and fish oil and fish meal.

In addition, China's new tariff exclusion process went into effect on March 2 and importers can now apply for exclusions from retaliatory tariffs (Tariff Exclusion Process Announcement). USDA has published a translation and analysis of China's guidance for participating in this latest round of exclusions (USDA Report on China's New Round of Tariff Exclusions). On February 28, China announced new exclusions of U.S. hardwood products; these exclusions were issued under the previous exclusion process (USDA Report on Tariff Exclusions for U.S. Hardwood Products). USDA will continue to closely monitor China's implementation of the agreement.

"These implementation measures are promising steps showing that China is taking steps to fulfill their purchase commitments," Perdue said. "Under President Trump's leadership, this agreement will produce positive gains for the entire economy, especially our agriculture sector. We look forward to China continuing to achieve their commitments in future months."



It's that time of the year. The grass is getting green and the cows are getting restless. It is going to be a long five weeks or so until they can be out on green pasture and we can all be happy again. For the meantime it will be nervous morning checks, fast entrances into the pasture with no gates left open and a nervous twitch every time the phone rings. This is also the one time a year I carry my phone into church. I am sure that is okay and cows in the ditch is the same as the ox in the ditch.

I have one heifer who has decided that the electric fence will no longer hold her in. She will not be bound by the constraints of my man-made boundaries when there is perfectly good grass on the other side. We are to the point in our relationship where if she is out all I do is start driving in her direction and she runs and jumps back into the pasture.

This is all good and fine except she has got the other cows thinking and looking and I am sure that she goes back into the pasture with the smell of fresh green grass on her breath and that is a bad influence on the others. Of course, the older cows might also be telling her about what happens to cows who have boundary issues. They become a Number Four Extra Value item on the menu at McDonald's.

Saturday I was scrambling around trying to get ready to be out of town for a couple of days and, in addition to hauling hay I wanted to make sure the fences were in top working order. I did not want to get the angry call from management that the cows were out while I was gone.

I watched as the cow saw me, sprinted back to the fence and jumped back in. This time she did not completely clear the fence and got a back leg hooked into it. Perfect, I thought, she will get shocked and maybe this will end the freelance grazing. Nothing – she didn't jump or wince, indicating that the fence was not hot. This was funny because just the day before I had self-tested it and I can tell you it was "make-your-arm-tingle" hot.

I decided that I had better take the time to fix the fence before I went out of town and I would have greater peace of mind. I walked the entire fence, checked

each insulator and especially each corner. It is amazing how often the problem is a corner insulator with just a little part touching on the bottom. I got down on my hands and knees and inspected each corner. To my consternation I could find nothing, no insulator off, no corner post touching, nothing to be shorting the fence out.

At this point darkness was creeping in and I had two more bunches of cows to feed and check. I left with a bad feeling of impending doom. When I got back to the house, I told Jennifer about my woes and begged for forgiveness for the Great Cow Escape of 2020 that was surely going to happen while I was gone. Then I mentioned that she might check it again because sometimes a fresh set of eyes will see something I missed.

I believe her response was something like, "I have to do everything around here and you owe me." Both statements were correct and the amount I owe is growing by leaps and bounds. It's a good thing I have a lifetime to pay it back. In any case, I left the next morning worrying about the fence that was not working and wondering what I had missed.

I didn't have to wait long for my answer. When I got to the airport, Jennifer texted to tell me that we had no new calves or lambs and that everything was good, and all livestock were in that morning. Then her text ended with, "Oh, I figured out what was wrong with your fence, too." Feeling both better and apprehensive, I texted back asking what the problem was. "The fencer was unplugged," was the short but very telling response I got back almost immediately.

I guess that is why she is management and I am the flunky. Each day I thank my lucky stars that I married up and that in a moment of weakness she picked me. How did the fencer get unplugged? Why did I not check to see if the fencer was unplugged? All questions that do not have good answers other than the obvious. Once again this proves that the only thing dumber than a cow is the guy who owns them. However, I was able to go about my trip with the peace of mind knowing that the fences were all working and that I had left the ranch in better hands while I was gone than when I was at home.

U.S. farm & biofuel leaders urge President Trump to stand by RFS

America's top biofuel and farm advocates called on President Trump to immediately speak out against reports from within the administration that the White House may bow to a misinformation campaign spearheaded by Senator Ted Cruz. The senator has urged the president to join a handful of oil refineries seeking to overturn a unanimous court decision that would halt the Environmental Protection Agency's (EPA) abuse of Small Refinery Exemptions (SREs) under the Renewable Fuel Standard (RFS). The following joint statement was issued by the National Corn Growers Association, the Renewable Fuels Association, the American Soybean Association, the National Farmers Union, Growth Energy, the American Coalition for Ethanol, the National

Biodiesel Board, the Iowa Renewable Fuels Association, and Fuels America.

"The president needs to understand that Ted Cruz doesn't care about this administration or families across the heartland who are counting on the White House to keep its promises. Just days ago, thousands of farmers rallied behind Secretary Perdue, who expressed his confidence that we had finally reached the end of a long and painful fight against EPA demand destruction. Tearing open that wound, against the advice of rural champions and the president's own advisors, would be viewed as a stunning betrayal of America's rural workers and farmers. We cannot stress enough how important this decision is to the future of the rural economy and to President Trump's relationship with

leaders and voters across the heartland. Ted Cruz comes back year after year with the same lies about refinery profits, disproven over and over by economists, the EPA, and even by Big Oil. We urge the president to stand up now against this misguided effort to torpedo the rural recovery."

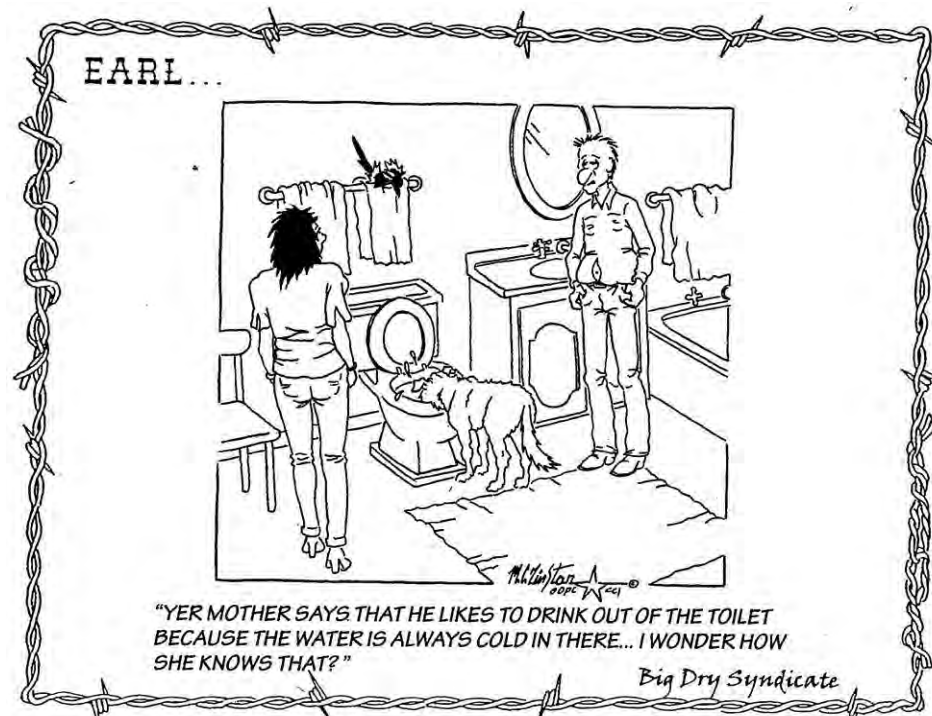
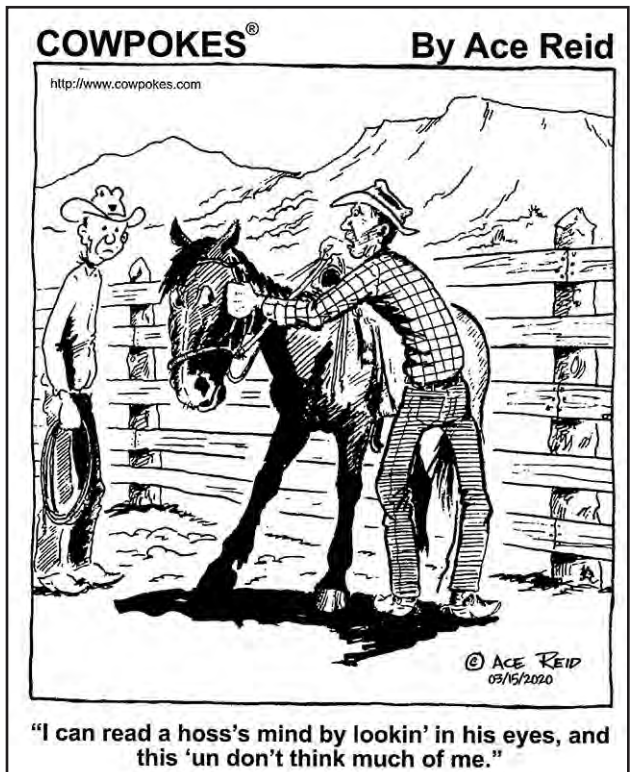
Recently, more than 20 farm and biofuel groups, including the American Farm Bureau and the National Farmers Union, also sent a letter asking President Trump to reject "an appeal of the court decision, given the clarity, unanimity, and strength of the ruling."

RCLA spring meeting planned for March 26

Dr. Alfonso Clavijo will be the featured speaker at the Riley County Livestock Association spring meeting on Thursday, March 26 at the Fairview Church Fellowship Hall, near Riley. Clavijo is the director of the National Bio and Agro-Defense Facility, currently under construction in Manhattan, and will provide an update on the NBAF facility and its operations.

The Fairview Church is located two miles north of Riley on Highway 24, across from the Riley County High School. The meeting will start at 6:30 p.m., with dinner catered by The Farmhouse in Olsburg and Riley.

There is a \$10 charge for dinner and reservations are needed by March 23. Reservations can be made online at www.riley.ksu.edu or by calling the Riley County Extension Office at 785-537-6350.



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Johannes receives American Soybean Association Pinnacle Award

The American Soybean Association (ASA) recognized outstanding volunteers and leaders at its annual awards banquet in San Antonio on Feb. 28, honoring individuals for state association volunteerism, distinguished leadership achievements and long-term, significant contributions to the soybean industry. The ASA Pinnacle Award was presented to Kenlon Johannes, Kansas.

ASA's ultimate honor, the Pinnacle Award, is an industry-wide recognition of individuals who have demonstrated the highest level of contribution and leadership within the soybean family and industry, through work involving a



Kenlon Johannes, right, received the Pinnacle Award from the American Soybean Association at their annual banquet in San Antonio.

significant amount of their lifetime.

For nearly 50 years, Kenlon Johannes has focused on broadening relationships to strengthen the soybean industry. After college and a few years teaching grade school, he returned to his family farm in Nebraska in the mid-1970s and joined the Nebraska Soybean Association and American Soybean Association. Now the CEO of the Kansas Soybean Association and administrator of the Kansas Soybean Commission, in the past he served as the top executive for soybean associations in Wisconsin and Missouri. During the early 1990s, recognizing the untapped potential of

surplus soybean oil, Johannes worked with farmer leaders and university researchers to promote and identify new uses for soybean oil—resulting in biodiesel.

In 1992, Johannes' biodiesel passion led him to become the first executive director of the newly formed National SoyDiesel Development Board, which later became the National Biodiesel Board. Johannes' commitment and skills as an educator and organizer, particularly around biodiesel, have made the U.S. soybean industry stronger for all soybean farmers.

Johannes' commitment and skills as an educator

and organizer, particularly around biodiesel, have made the U.S. soybean industry stronger for all soybean farmers.

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Hoy presents Chisholm Trail's influence on Kansas History

• Cont. from page 1

known as the Chisholm Trail," Hoy said.

The landscape and fears of diseases prevented trails heading directly east, so Kansas became a hotbed for cow towns due to the free development and direct access to railroads.

"Folks thought the Texas longhorn had a disease called Spanish Fever," Hoy said. "But years later they learned it traveled by ticks. The locals passed quarantine laws so they couldn't go to places like Sedalia, Missouri, thus the cowboys came to Kansas."

Cowboy Legends

Hoy said it was Joseph McCoy who had the bright idea to use the railroad lines being built across Kansas.

"He was the one who said, 'Why don't we go to the edge of the quarantine line and ship cattle from there?' McCoy was persistent and he went to Salina and Junction City, but they didn't want him."

McCoy ended up in a small town with only a store, saloon and 12 houses, and not enough people to stop him. So, he built a set of cattle pens and secured a side track from the railroad to ship the first loads east.

"Within only a few months in 1867, he shipped 30,000 cattle," Hoy said. "Abilene was a cow town for five years and they shipped at least 2 million cattle in that time."

McCoy established the conditions to market those Texas cattle.

"Economically, but more importantly mythically, he made the cowboy," Hoy said. "McCoy described them with outstanding horsemanship and free qualities. It became the stereotype, and that's how it all started."

After settlers came, the railroad opened another large hub south in Newton, but just for a year.

"It had a nickname of Bloody Newton, where firearm enforcement didn't happen," Hoy said. "Up to 20 were killed in a year with five shot in one saloon in the Newton Massacre. No famous lawman

or outlaw was involved, so we don't hear about it as much."

Next, the railroads and cowtowns went to Wichita, Ellsworth, Caldwell and then Dodge City.

"Dodge took over in the 1870s as the Queen of the Cowtowns," Hoy said. "We all know the stories of Dodge City as the legendary American West."

Songs & Ballads

Hoy said one of the main reasons the Chisholm Trail became so famous was the cowboy sang about it.

"No other occupational group has as many songs as the cowboy, not coal miners, farmers or anyone," Hoy said. "They worked in the wide-open spaces. Nature has always been an inspiration for poetry. Their work was exciting with bucking horses and lots of interesting things to write about. They had the leisure time to write."

The working day at the ranch and trail were long, but the horse did the heavy lifting with much of the work.

"The cowboy could sing and compose songs to occupy his mind in spare time," Hoy said. "Around the fire at night, the popular songs of the time got changed to the cowboy way of life with the right conditions."

Hoy said it's hard to imagine when most think cowboys only said, 'Yep' and 'Nope' around other people, but on a trail drive they opened up to each other as a community and brotherhood.

"They started talking

about a tough horse or good roper, and someone would come up with a better story," Hoy said. "I think there was a lot of talking and singing."

Hoy said cowboys sang for three reasons: 1) to entertain themselves and pass time during the day, 2) to calm down the cattle with night-herding songs while riding night guard; and 3) story-telling songs to entertain other cowboys around the campfire.

"If you had to drive a car 500 miles going only 20 miles an hour without a radio, it wouldn't take long to get bored stiff," Hoy said. "The cattle had to go at a slow pace to put on weight."

The average age of the drovers was late teens or early twenties with an estimated 35,000 in the 20 years of the drives. Most only did one drive and went right back home. A third were black or Mexican.

"The cowboys had to keep singing, even if they missed their momma's cooking and were lonely," Hoy said.

Also, the world's first cowgirl was a Kansas girl named Willy Matthews.

"Kansas has a lot of firsts in this thing," Hoy said. "Her dad was a drover. She wanted to do it and figured out how. She borrowed clothes from her brother and ran away in 1887."

Art Connections at Beach

Through drawings, paintings, magazines, and books, a new exhibition is the first to survey artist

John Steuart Curry's vision of the American West.

During the years of the Great Depression, Curry (1897-1946) gained national recognition. Based in Kansas, Curry helped lead a movement in American art characterized by realist depictions of the local scene. Curry is best known for his images of rural Kansas like isolated farms, religious gatherings or approaching storms.

From childhood, Curry was under the spell of a Wild West where he was an illustrator of serialized magazine stories about ranch owners and cowboy adventures.

Later, Curry would develop imagery for editions of classic books. During the 1930s, Curry interpreted westward expansion in murals for U.S. agencies. Later experiences on his family's ranch in Arizona nurtured Curry's love of the desert and mountains, where he also often camped and painted.

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***** By G&G Area Cooks *****

Kelma Froberg, Waterville, Wins Weekly Recipe Contest And Prize

Winner Kelma Froberg, Waterville: "Sharing a Strawberry Dessert we like at Easter."

STRAWBERRY DESSERT
 48 marshmallows or 2 cups small marshmallows
 1 cup milk
 15 graham crackers, crushed (1 1/3 cups)
 1/3 cup melted oleo
 2 cups Cool Whip
 2 package strawberry gelatin
 2 cups boiling water
 Package frozen strawberries
 Combine marshmallows and milk in a double boiler and melt; cool. In the meantime crush the graham crackers. Combine with melted oleo to make a crust. Save some cracker crumbs for the top. Add Cool Whip to marshmallow mixture and put half of mixture on top of cracker crust. Dissolve gelatin in boiling water; add strawberries and let partially set. Pour on top of marshmallows on crust. Let firm up. Put rest of marshmallow mixture on top of gelatin. Top with a few crushed graham crackers.

Jackie Doud, Topeka:
CHICKEN CASSEROLE
 2 cups cubed chicken, cooked
 1 can mushroom soup
 1 cup pineapple tidbits
 2 celery ribs, chopped
 1 tablespoon chopped green onion
 1 tablespoon soy sauce
 3-ounce can chow mein noodles, divided
 Set oven 350 degrees.
 In a large bowl combine everything except chow mein noodles. Fold in 1 cup chow mein noodles. Put in a 2-quart baking dish. Sprinkle remaining noodles. Bake uncovered until heated through, 20-25 minutes.

NOTES: If desired top with additional green onions. You can use water chestnuts instead of celery also.

Darlene Thomas, Delphos:
TENDER & TASTY PORK CHOPS
 1 2/3 cups unsweetened pineapple juice
 1/3 cup rice wine vinegar
 1/4 cup olive oil
 3 tablespoons soy sauce
 3 tablespoons chopped shallots or onions
 4 garlic cloves, minced
 1 1/2 teaspoons salt
 1 teaspoon Louisiana-style hot sauce
 3/4 teaspoon ground cumin
 3/4 teaspoon pepper
 6 bone-in pork loin chops (3/4-inch thick)
 In a large bowl combine pineapple juice, rice wine vinegar, olive oil, soy sauce, shallots or onions, garlic cloves, salt, hot sauce, cumin and pepper. Place pork chops in a large resealable plastic bag and add half of the marinade. Seal bag and turn to coat. Refrigerate for 4 to 5 hours, turning occasionally. Cover and refrigerate remaining marinade for basting. Drain and discard marinade. Grill pork chops covered over medium heat for 8 to 10 minutes on each side or until a meat thermometer reads 160 degrees, basting occasionally with

reserved marinade.

Kellee George, Shawnee:
CARAMEL BUTTER PECAN BARS
 2 cups flour
 1 cup brown sugar
 3/4 cup cold butter, cubed
 1 1/2 cups chopped pecans
 12-ounce jar ice cream caramel topping, warmed
 11 1/2-ounce package chocolate chips
 In a large bowl combine flour and brown sugar; cut in butter until crumbly. Press into an ungreased 9-by-13-inch baking dish. Top with pecans then drizzle caramel topping evenly over pecans. Bake at 350 degrees for 15-20 minutes or until caramel is bubbly. Place on a wire rack. Sprinkle with chocolate chips. Let stand 5 minutes. Carefully spread the chips over the caramel layer. Cool at room temperature for 6 hours or until chocolate is set. Cut into bars.

Millie Conger, Tecumseh:
FRUIT BAKE
 20-ounce can pineapple chunks, drained (reserve 1/4 cup juice)
 29-ounce can peach halves, drained
 29-ounce can pear halves, drained
 8-ounce jar maraschino cherries
 1/2 cup chopped pecans
 1/3 cup brown sugar
 1 teaspoon cinnamon
 1 tablespoon melted butter
 Set oven at 325 degrees. Arrange fruit in 2 1/2-quart baking dish. Top with nuts. Combine butter, brown sugar, cinnamon and pineapple juice. Cook over low heat until sugar is dissolved and butter melted. Pour over fruit. Bake 45 minutes. Serve warm. You can also cook in slow cooker.

Rose Edwards, Stillwater, Oklahoma:
CHICKEN STUFFING CASSEROLE
 (2) 6-ounce packages chicken stuffing mix
 2 cans cream mushroom soup
 1 cup milk
 4 cups cubed & cooked chicken
 2 cups frozen corn
 (2) 8-ounce cans mushroom pieces, drained
 4 cups shredded Cheddar cheese
 Prepare stuffing mixes to package directions. In a large bowl combine soup and milk; set aside. Spread the stuffing into greased 9-by-13-inch baking dish. Layer with chicken, corn, mushrooms, soup mixture and cheese. Cover and bake at 350 degrees for 30-35 minutes or until cheese is melted.

Darlene Thomas, Delphos: "Good way to get fresh vegetables for your family."
RAISIN CARROT CAKE
 1 cup raisins
 2 cups flour, divided
 2 cups packed brown sugar
 2 teaspoons baking powder
 2 teaspoons ground cinnamon
 1 teaspoon baking soda
 1 teaspoon salt
 3/4 cup vegetable oil
 4 eggs
 3 cups grated carrots
Frosting:
 8-ounce package cream cheese, softened
 1/2 cup butter, softened
 1 teaspoon orange juice
 1 teaspoon vanilla extract
 3 3/4 cups powdered sugar
 Toss raisins with 2 tablespoons flour; set aside. In a large mixing bowl combine the brown sugar, baking powder, cinnamon, baking soda, salt and remaining flour. Add oil and eggs; beat well. Stir in carrots and reserved raisins. Transfer to a greased 9-by-13-by-2-inch baking dish. Bake at 325 degrees for 55 to 60 minutes or until a toothpick inserted near the center comes out clean. Cool on a wire rack. For frosting, in a large mixing bowl beat cream cheese and butter until smooth. Beat in orange juice and vanilla. Gradually add confectioner's sugar. Beat until light and fluffy. Spread over cake. Store in the refrigerator. Yield: 12 to 16 servings.



"Pets De Soeur" By Tiffany Oppelt

Luckily for me, I spent a lot of my childhood in the kitchen learning the ins and outs of making food for the people you love or at the very least, playing nearby. I knew that my proximity to the kitchen directly correlated with my odds of convincing whoever was in there to let me partake in a special treat from their creations. It might be the licking of a spoon, the cleaning off of the whisk, or a little taste of something no one else would be able to enjoy until later. Even just being able to enjoy the different and distinct scents as they wafted from the kitchen to where I played could be enough for me.

I particularly loved tasting dough, something that might possibly be genetic, as I am often hearing the eager voice of my three-year-old asking if he might be able to have some of the pie dough. When it came to pie dough, the scraps were sacred. They would be saved into a pile, and then rolled out into strips, to be buttered lovingly and sprinkled with cinnamon and sugar. I loved watching a rolling pin glide over the dough and the expert sprinkling of the perfect blend of the sweet concoction over it. How was it that it was always the perfect amount without any measuring?

As I was sharing with my mother-in-law, whose family is French-Canadian, that the scraps baked off were some of my favorite "special treats" from pie making, she asked me if I was talking about "Nun Farts." I laughed out loud and was certain she must be trying to pull one over on me, as there couldn't possibly be a treat called that. As it turns out, "Pets De Soeur" is a French term for a pastry similar to a cinnamon roll that when translated to English is (religious) sister's farts. I found this to be absolutely hysterical.

As my pie business has continued to blossom, I have had so many people comment that one of their favorite pie-related memories is those little scraps, sprinkled with cinnamon and sugar and baked off to enjoy. So, I've added "Pets De Soeur" (in pie dough form) to my market menu but I can't quite list it as the translated version. I lovingly named them "Pie Crust Cookies" and have them marked five for a dollar. I don't usually have leftover dough, but I will make extra just to have them. As you might assume, I'm not making any money off of them once you factor in the packaging and labor.

The biggest return I get from making these treats is hearing a gasp from someone walking by who realizes what they are. It also almost always elicits the sharing of a story of someone they loved, either a mother or an aunt or a grandmother who used to make them for them to enjoy. I always sell out of them rather quickly. Then there are those people who ask what they are and I explain and they try them just because it's something new. It is my greatest hope that they can feel the love that goes into those little tasty morsels and it can fill their soul with a bit of the happiness that was felt while making them. Because that's what those little bits are: little bits of happiness and love.

Tiffany is a life-long foodie and owner and baker of Therapie, LLC, a home bakery. Her love for food has led her in many of her life choices and career path, including her current role as an Operations Manager with Dining Services at Kansas State University. Follow Therapie, LLC on Instagram or Therapie, LLC on Facebook for a peek inside how therapeutic pie and people can be. For questions or comments, she can be reached at therapie.llc@gmail.com

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470± Acres of STAFFORD COUNTY, KS Land LAND AUCTION

WEDNESDAY, APRIL 1, 2020 — 1:30 PM
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Tract 1 will sell at 1:30 pm. Legal Description: S2 of Section 23, Township 25, Range 13 Stafford County KS. 316± acres of dryland. Minerals are Reserved for 10 years unless there is no production or when production ceases they pass to the buyer. Minerals currently are leased. Property has a water well (no pump).

Tract 2 Legal Description: SW4 of Section 34, Township 25, Range 13 Stafford County KS. 160± acres of dryland. Less HWY 281. Minerals pass to the buyer. Not currently leased. Property has a water well (no pump).

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By Barbara Ames, Family & Consumer Sciences Agent, Wildcat Extension District

Does that morning doughnut leave you craving another treat two hours later? Do you feel the need to grab a candy bar to cope with your afternoon slump — and then reach for a cola to get out of your post-slump slump?

If you've found that munching sugary snacks makes you crave them even more, you're not alone. Eating lots of simple carbohydrates — without the backup of proteins or fats — can quickly satisfy hunger and give your body a short-term energy boost, but they almost as quickly leave you famished again and craving more. Luckily, there are some things you can do to help you tame those pesky sugar cravings.

Added sugar in our diet is discouraged by nutritionists for two main reasons. First, it is linked to weight gain and cavities. Second, sugar provides "empty calories" because it lacks any nutritional contribution, and too much sugar in your diet can crowd out more healthful foods.

Sugar-sweetened beverages are by far the greatest sources of added sugar in the diet and account for more than one-third of the added sugar consumed as a nation. Other popular high-sugar foods include cookies, cakes, pastries, ice-cream, candy, and ready-to-eat cereals.

People crave sweet things for a number of reasons. "Sweet is the first taste humans prefer from birth," says Christine Gerbstadt, MD, RD, a dietitian and American Dietetic Association (ADA) spokeswoman. Carbohydrates, especially sugar, stimulate the "feel-good" chemical dopamine in the brain.

Consumption of foods and beverages high in sugar is also linked to stress. Feelings of stress can cause poor sleep, which can affect your hormone levels and cause you to crave sugary, high-calorie foods.

Here are a few tips that may help you tame sugar cravings.

- Combine a sugary food you are craving with a healthful one. Dip a banana or strawberry in

chocolate sauce, or mix some almonds with a few chocolate chips.

- When a sugar craving hits, walk away. Do something to change the scenery and get your mind off the food you are thinking about. Get out and take a walk or get some type of exercise.

- If you need to splurge on something sweet, go for quality — not quantity. Choose a delightful chocolate truffle over a king-sized candy bar, or split a decadent dessert with one or two other people.

- Skip artificial sweeteners. Research has shown that diet drinks and artificial sweeteners may increase your craving for sugar.

- Eat regularly throughout the day. If you wait too long between meals you could set yourself up to choose sugary, fatty foods to curb hunger. Eat something every 3 to 5 hours to keep your blood sugar stable.

- Slow down and focus. Often, poor food choices result from a lack of planning. Slow down, focus, and plan what you are going to eat so you are ready to make a healthful food choice, even when you are desperate.

- Eat just a little of what you are craving and allow yourself to enjoy what you love. Keep a sweet treat to 150 calories or less.

- Replace a candy dish with a bowl of fruit for when sugar cravings hit. If you like something sweet at the end of a meal, go for a fruit-based dessert or plain fruit. To curb a soda habit, try mixing a little fruit juice with seltzer water.

Find more information about these topics and others, by contacting 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.

For more information, contact Barbara Ames, Family and Consumers Sciences Agent, bames@ksu.edu, 620-331-2690.



Reuniting

By Lou Ann Thomas

My high school graduating class is having a reunion this summer — and it's a big one. Recently while having lunch with a former classmate and present friend the reunion came up. Neither of us could fully wrap our heads around how long it had been since we graduated. Finally my friend said, "I know it's only a number. But that's a really big number!" And he's right. When I say it out loud it sounds impossible that it has been that long since we took our last walk together on the way to our diplomas.

One of the more difficult tasks in planning a reunion is to find everyone. I've come to the conclusion that some prefer to not be found. I can honor that. Some we'll find, but they won't attend the festivities. That's okay too. It's their choice. But I like spending an evening every ten years with people I've known seemingly forever, even if I have to rely on nametags to determine who they are.

It's good we've all

changed. I've often thought the stupidest thing I've ever read was written in probably all of our yearbooks, and it is: "Stay the way you are and you'll go far." Honestly, if you stayed the way you were in high school, it's unlikely you would go very far at all. And yet, we share a significant part of our history by hav-

ing known each other during our most awkward life passage — our teen years. Good Lord, has anyone escaped that time period without at least one encounter with humiliation and embarrassment? I sure didn't. Those were daily occurrences for me in high school.

We were just beginning to get a glimpse of who we were becoming. We were no longer caterpillars, but we weren't yet butterflies either. High school years are more like the goo that caterpillars move through on the way to growing wings worthy of flight.

I helped write a parody of Cinderella for a school musical in high school and insisted we write a toad into the

script, thinking how funny it would be to see someone play that part. After the guy who actually tried out for that part quit the cast, guess whom they made the toad? Yup. Me. I was the toad.

Maybe some who choose not to attend high school reunions do so because they too felt like a toad then. From others I hear laments that they feel too bald, pudgy or old to attend. Well, here's news — we're all the same age and none of us look like we're 17 anymore. And isn't that the way it should be?

The butterfly never dreams of returning to a caterpillar because it's too busy using its wings to fly.

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SALINA FARM SHOW 2020

K-State researchers test fertilizers for best results in Kansas, other soils

Ganga Hettiarachchi knows that farmers want to be good stewards of the environment. And as a soil scientist at Kansas State University, she is in a good position to help them along the way.

Hettiarachchi and former doctoral student Jay Weeks recently completed a study of how phosphorus – an important nutrient for growing farm crops – reacts in alkaline farmland, called calcareous soils,

which are abundant in arid to semiarid regions due to their high concentrations of calcium and carbonate.

Because plant available phosphorus is often lacking in calcareous soils, one tendency is to over-apply fertilizer to make sure that crops have enough phosphorus available to meet its growth needs.

But Hettiarachchi said more may not be better when applying fertilizer in calcareous soil, such as those found in many parts of western Kansas.

“Our research group conducted experiments in a laboratory to understand exactly what is happening to the phosphorus when fertilizer is applied to

crops,” Hettiarachchi said.

What they found is that when fertilizer is applied in granules, the phosphorus is readily converted into calcium phosphate and not available to the plant. In that case, Hettiarachchi said, precipitated phosphorus could eventually move across the soil and into adjacent waterways.

Instead, she said, farmers should apply smaller amounts of liquid fertilizers, or other phosphorus sources, such as ammonium polyphosphate (APP). Those products are more capable of permeating the soil, minimizing calcium phosphate precipitation and delivering phosphorus and other nutrients to

the plant.

“By selecting the right source and formulation,” Hettiarachchi said, “they could actually save money by applying less phosphorus. That is good for the farmers economically and good for the environment because we are not over-applying phosphorus.”

Hettiarachchi noted her group’s findings support a well-known principle of responsible nutrient management that calls for applying nutrients at the right time, rate, source and place. “I think that is the driving thing for farmers...they want to do this right,” she said.

“The bottom line is that when considering granule

fertilizers in calcareous soils, it matters which one you use,” Hettiarachchi said. “We need to use the right source so that we don’t over-apply fertilizer.”

Hettiarachchi’s work, which studied soils found near Garden City, was recently accepted for publication in the journal for the *Soil Science Society of America*.

She added that future work will study the impact of other nutrients common in fertilizer. “We are looking at ways of developing more efficient fertilizers,” Hettiarachchi said. “Again, it goes back to finding the right source so you can do more with less.”

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Patience is a virtue for on-farm flood recovery

Severe flooding caused devastation for farmers across the Midwest in the spring of 2019. The March 7th Sustainable, Secure Food blog explores the effects flooding has on farms and the steps taken to recover.

Blogger John Wilson explains, “In the spring of 2019, a perfect storm of conditions led to severe flooding across the Midwest. Farmers in many states had to delay spring planting because fields were too wet.”

Rapid snowmelt, precipitation and flooded waterways played into the problem. “The results were catastrophic;

some farms still had standing water six months later,” says Wilson. “Floods have long-term impacts.”

Issues farmers must address after flooding include: Sediment and debris

Erosion repair
Soil repair and nutrient management
Crop repair

“Repairing farm fields after floods is possible, but it can be time-consuming and labor-intensive,” says Wilson. “Patience is a virtue when bringing flood-damaged cropland back into production. Inventorying what needs to be done and planning your course of action is critical for flood recovery.”

To learn more about how flooding impacts farmers, read the new Sustainable, Secure Food blog: sustainable-secure-food-blog.com/2020/03/07/how-does-flooding-affect-farms



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SALINA FARM SHOW 2020

K-State crop researcher's work on night-time temps earns acclaim

A Kansas State University researcher whose work is helping to redefine the way that farmers and plant breeders view the impact of night-time temperatures on farm crops has been recognized by a publication that promotes innovation in science.

Krishna Jagadish, an associate professor in K-State's Department of Agronomy, is the co-author of an article just published in the journal, *Trends in Plant Science*, that explains why crops and other plants lose water as a result of high temperatures at night.

"In climates like we have in Kansas, where the nights are warmer, it's common for plants to lose water (overnight), which is very precious for many of our crops," Jagadish said. "In turn, that translates

into increased drought periods that will affect the quantity and quality of our yields."

In plants, water passes through the stomata, which are small pores in the epidermis of leaves, stems and other organs. During the day, the stomates open to allow water to be taken from the plant's roots, then trade that water with carbon dioxide so that photosynthesis (and thus, plant growth) can occur.

"Normally, plants keep their stomates closed during the night, and thus would lose very little water during the night when photosynthesis can't take place," Jagadish said. "But with warm night-time temperatures, atmospheric drying takes place because the higher temperatures are forcing the plant to open the stomates, at

least partially."

The result is that the plant loses some of the water that otherwise would be used to help with photosynthesis the next day, according to Jagadish.

"We don't yet know how much water is being lost in Kansas farm crops," Jagadish said. "If the night-time conditions are really warm, we could be losing as much as one-third to one-half of what those plants would normally lose during the daytime."

Jagadish and his research team are about to enter a third summer of testing the impact of high night-time temperatures on farm crops. They have built specially-designed heat tents north of the Kansas State University campus in Manhattan to simulate varying conditions and determine how

crops – specifically wheat – react.

Their work so far is the basis for the article that is now available in *Trends in Plant Science*.

"The article compares a number of different crops, including forestry species," Jagadish said. "The focus has been on rice and wheat, (but) I don't see any reason why corn or sorghum will behave any differently, because they also have stomates."

One option to help farm crops grow – though, perhaps not ideal – is to provide more water to the plants during the day. "But since water is more scarce, and it costs farmers to deliver that water, a better option is to breed for more drought tolerant crop varieties," Jagadish said.

Jagadish's work on the K-State campus includes

growing 320 varieties of wheat inside the heat tents to identify which ones contain traits that could resist the negative impacts of high night-time temperatures.

"We hope to identify those lines that are not losing yield or quality even when we increase the night-time temperature by 4 degrees Celsius (or an additional seven degrees Fahrenheit)," he said. "That seems to be the point when we start to see how it is regulating its stomata, whether it is losing water during the night, and if it is more water efficient."

"When we see that, we

might either have a variety that is more tolerant to drought and high night time temperature, or we'll find the mechanisms in wheat or rice that better regulate the stomata during the night. Then, we can take some of those traits into breeding future crops."

Jagadish noted that *Trends in Plant Science* is one of the top-rated publications globally for sharing innovative ideas, opinions and perspectives related to growing crops and other plants. The article he has written was co-authored by Walid Sadok, an assistant professor at the University of Minnesota.

CFTC postpones agriculture conference, relocates March 31 open meeting to Washington D.C.

The Commodity Futures Trading Commission has announced the following changes to previously scheduled public events due to the impact of the coronavirus:

- The CFTC will postpone this year's Agricultural Commodity Futures Conference scheduled for April 1-2 in Overland Park.

- The CFTC will relocate its open meeting scheduled for March 31 at the Federal Reserve Bank of Kansas City to CFTC headquarters in Washington, D.C.

- The CFTC will be postponing its LabCFTC office hours scheduled for April 1 in New York City.

"Engaging with the public is essential to fulfilling the CFTC's mission of promoting the integrity, resilience, and vibrancy of the U.S. derivatives markets through sound regulation," said CFTC chairman and chief executive Heath P. Tarbert. "While low attendance was the primary factor in making these adjustments, the CFTC's top priority is the health and safety of our employees and members of the public who attend our events. We continue to monitor the situation closely. In the meantime, the agency continues normal operations across all four of our offices and the Commission will continue to conduct public rulemakings."

Additional guidance on the March 31 open meeting in Washington, D.C. is forthcoming.

Spring is perfect time to think about your pastures

By Wendie Powell, Wildcat Extension District livestock production agent

Producers are thinking about pasture management year-round, but spring is like a fresh start when something can actually be done for pest control and grazing management. Now is a good time to get plans going for weed management, plant disease management, as well as prepare for insect damage.

Plants can get diseases that affect their growth and nutritional quality, but some toxins can affect animal performance. Scout for insect damage in alfalfa and other legumes. Weevil infestation can kill stands if not treated on time. Aphids may weaken stands considerably especially when additional stresses occur, like flood-

ing.

To combat pests like weeds, the first step is sometimes the hardest: identification of the problem. Proper ID is paramount to good (and cost-effective) control. For example, henbit is a winter weed problem, you wouldn't try to control it in July, waste of money and time. Most weeds are like that. You'll want to apply treatment to dormant Bermudagrass to keep pastures clean of broadleaf weeds. Keep in mind that Bermudagrass should not be mowed or grazed for 60 days after glyphosate application after Bermuda greenup, so time herbicide application accordingly. In native pastures, prescribed burns are recommended.

Speaking of prescribed burns, recall that there really is a difference in

just throwing out a match and prescribing a fire for a particular area. A set time and duration is called for the highest effectiveness and safety measures are put in place to ensure safety. Safety measures like fire breaks, fully functional fire crews with assignments, and a written plan for the area to be burned are all parts of a well-thought-out prescribed burn event. Not to mention an extra safety net.

This is also a great time of year to put nutrient plans into play. Anytime grass comes off a pasture or even hayfield, nutrients are removed and it's imperative that they are replaced at the appropriate level to ensure a healthy stand of desirable forage. Start with a soil test. You can borrow a soil probe from any of the four Wild-

cat District Extension offices and your price per sample is only \$10. This \$10 will get you an analysis of the nutrients that are present in the soil and a recommended rate of your choice of fertilizer to bring the soil back to optimum production.

Not all pastures need to be fertilized. But, all pastures need to be tested for deficiencies, and then have nutrients applied if there are any lacking. Well cared for and long-standing native grasses tend not to need additional soil amendments, but introduced forages are that not native will need the extra boosts.

For more information, please contact Wendie Powell, Livestock Production Agent, wendiepowell@ksu.edu or (620) 784-5337.

Not all methods of castration by ligation are equal; properly tensioned band is critical

Proper tension is essential in ligating a body part. Studies of high-tension banding have demonstrated that the complete negation of blood flow triggers a natural analgesic effect that reduces pain, while minimizing swelling and related complications. This effect is called compression analgesic.

Compression analgesic was the term used by researchers in New Zealand when developing a humane and drug-free method of velvet antler removal. Without a band placed below the antler pedicle, the level of pain when removing the antler was excruciating (full body movement); with a prop-

erly tensioned Callicrate Velvet Antler Band, the level of pain was undetectable (no eye movement).

The Callicrate Wee Bander, as with the Callicrate Smart Bander and the Callicrate Pro Bander, also provides compression analgesic. It is the only castration tool for newborns that achieves a level of tension sufficient to shut off the blood supply, while providing immediate pain relief. Proper tension is achieved with every application.

Managing stress is especially important with calves, lambs, and kids in developing healthy immune systems essential to a healthy drug-free life.

Another advantage of the Wee Bander – you do not have to worry about incomplete castration when a testicle slips back up above the band. Keeping both testicles below the band with the elastrator pliers and 'cheerio' rings is a challenge.

The elastrator ring is inexpensive but fails to provide sufficient tension for either proper ligation or pain relief. Other castration products on the market are either bigger versions of the elastrator ring or depend on operator hand strength for tightening, failing to provide the proper tension.

Callicrate Banders, recommended by veterinari-

ans and animal handling specialists worldwide since 1995, are the most humane and effective castration tools on the market. Due to emphasis on high-tension ligation, the banders excel at achieving a tight band every time. Easy-to-read tension indicators ensure the correct tightness, essential to minimizing discomfort and reducing complications.

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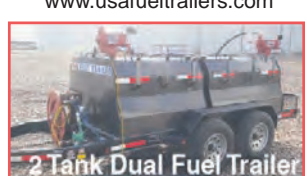
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Ground, barriers broken at Temple Grandin Equine Center

By Tony Phifer
 Temple Grandin, the world-renowned professor in Colorado State University's College of Agricultural Sciences and autism advocate, didn't have an easy road in life. Far from it. "High school was a di-

saster for me," she said. "I was always getting picked on."
 She recalled the day she reached her breaking point when a student called her a derogatory term. "I chucked a book at her," Grandin said. "Horses saved my life"

That incident got Grandin, now in her 30th year on the Department of Animal Sciences faculty, kicked out of school, but it also opened up a completely new world for her. Her new boarding school included opportunities to ride and work with horses. "Horses saved my life," she said. "I loved to ride them, and working in the barns taught me how to work. I fed them, took care of them and cleaned out nine stalls every day."

It was fitting then, on Monday, Feb. 20, that CSU broke ground on the Temple Grandin Equine Center on the Foothills Campus. The new facility, adjacent to the B.W. Pickett Arena, will be home to what may be the leading equine-assisted activities and therapy (EAAT) research program in the world. It will serve children with autism, veterans with PTSD and seniors with Alzheimer's or other dementias.

Two-phase project
 The overall project, which includes two phases, is projected to cost \$10 million. Construction on the first phase of the project, approximately \$5 million – a 40,000-square-foot building featuring a riding arena, classrooms, horse stalls and space for CSU's Right Horse program – will begin this spring. CSU has raised \$4.7 million to date.

"Temple was our inspiration, so it's appropriate this facility be named in her honor," said Jerry Black, head of CSU's Equine Sciences Program and one of the project's original planners.

The project first was envisioned in 2014, and planning and fundraising began shortly thereafter. Grandin not only consult-



Temple Grandin, Colorado State University's world-renowned professor of animal sciences and autism advocate, speaks at the groundbreaking of the Temple Grandin Equine Center Event.



James Pritchett, interim dean of the College of Agricultural Sciences, Temple Grandin, CSU President Joyce McConnell and Adam Daurio, director of the Temple Grandin Equine Center, prepare to dig in at the groundbreaking ceremony.

ed on the facility's design, she has been a donor and tireless advocate.

Two Temple Grandin centers

The Animal Health Complex at CSU's SPUR Campus at the National Western Complex in Denver will also include programs hosted by the Temple Grandin Equine Center. Programs at that location will focus more on outreach than education and research; the facility is slated to break ground in April.

When completed, the Foothills Campus center will elevate CSU's already renowned EAAT program. The leadership team has already invested thousands of hours in research and practical application, reviewing every known equine-assisted therapy-related study from around the world.

"We are now considered the leader in researching equine-assisted activities and therapy," said Adam Daurio, director of the Temple Grandin Equine Center. "This will be a place where individuals with physical, emotional and developmental challenges can heal, where therapists can treat, where students can learn, where scientists can research, and where horses can be studied, cared for, and advanced. Our graduates already are the leaders in many aspects of this industry."

Becoming the world leader

Daurio said CSU's current EAAT programming already provides services for 70 people per week, and has successfully launched three tracks of research. Students – both undergrads and those working on advanced degrees – do the bulk of the hands-on research and partner with licensed practitioners and certified instructors to host appointments for participating children, veterans and seniors.

Several key donors attended the groundbreaking, and CSU president Joyce McConnell told the gathering how proud she was of the program and the donors who helped make the facility a reality.

"CSU is a place that dreams," McConnell said. "It doesn't surprise me that we will be the best in the world. We need to tell everyone else we are the best in the world because we are cutting-edge, and we are pushing the boundaries. And when we push the boundaries because of the research we do, we actually get it out into the world, so this gets to spread far and wide."

CSU hopes to launch the next phase of the facility, which will include a second arena, advanced clinical and therapy facilities, and administration offices in 2024.

ESTATE AUCTION

SATURDAY, MARCH 28, 2020 — 9:00 AM
888 East 661 Diagonal Rd. — LAWRENCE, KS (Lone Star)
 South of Lawrence 1 mile on Hwy 59 & turn West on Dg. 458, 7 miles to Dg. 1 (1039) South 1 mile to Diagonal Rd. (Lone Star), West to Auction! Parking At the Lone Star Church of Brethren! Watch For Signs!

GOLF CART, COLLECTIBLES, TOOLS, HOUSEHOLD, MISC.
 Yamaha 2 seat gas Golf Cart w/canopy; Texas Ranger Model TEX-22 single action .22LR Revolver w/box; Rocky Mountain leather holster; 30' Windmill Tower; 36" diameter cast-iron Kettle; 100lb Blacksmith Anvil w/stand; Red Wing Poultry Crock Feeder/Waterer; Goodrich Schwinn Bicycle; wooden egg boxes; advertising wooden boxes of all kinds; cherry pitter; lanterns; wash tubs; iron wheels; well pulleys; milk & cream cans; Simplex #22 jack; claw foot bath tub feet; 1928 Jayhawk Bottle; Blue Stone enamel Kettle; coffee mills; feed dolly; carpenter boxes; metal lawn chairs; school desk; May Gold Hybrids sign; several metal signs; Rolling Acres Metal Farm Barn w/Silos; Kilgore cast toy pistol; Marx & Poosh-M-Up Jr pinball games; Hot Wheel sets; numerous Vintage Toys & Games! **Comics:** Roy Rogers, Buffalo Bill, Lassie, Tarzan, etc.; children books; 100s Vintage Books of all sorts!; Veterinary books; pennants (Royals, Lakers, etc.); vintage dolls/accessories; Barbies; Skyline Topeka Roller Rink Case w/skates; violin w/case; belt buckles; lighters; bottles/jars; record albums; costume jewelry; oil lamps; Flintstone juice glasses; carnival punch bowl set & compotes; Very Large Collection of Pink Depression Glassware; clear & pattern glass; silver plate tea set; juice sets; 12 piece Sterling Florentine Chinaware set; Gone With The Wind figurines & dolls; very large selection sewing items & crafts; quilting frames; Janome New Home 124 & Wards #279 sewing machines; treadle sewing machines; 6 drawer spool cabinet; Snap-On clock & calendars; wood planes; radial-arm saw; Delta compound saw; 20' aluminum walk-plank; scaffolding w/wheels; 2 wheel 4x8 trailer; electric cement mixer w/cart; Craftsman adj. wrench set; pipe wrench set; 100s of wood working & mechanic tools of all kinds!; wood clamps; Grandfather clock; Mainline By Mooner Blonde '50s bedroom suite; smaller roll-top desk; wooden trunks & storage cabinets; wooden rocker; dining room table w/matching chairs; kitchenette w/chairs; platform rock-toy pistol; Marx & Poosh-M-Up Jr pinball games; Hot Wheel sets; numerous Vintage Toys & Games! **Comics:** Roy Rogers, Buffalo Bill, Lassie, Tarzan, etc.; children books; 100s Vintage Books of all sorts!; Veterinary books; pennants (Royals, Lakers, etc.); vintage dolls/accessories; Barbies; Skyline Topeka Roller Rink Case w/skates; violin w/case; belt buckles; lighters; bottles/jars; record albums; costume jewelry; oil lamps; Flintstone juice glasses; carnival punch bowl set & compotes; Very Large Collection of Pink Depression Glassware; clear & pattern glass; silver plate tea set

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Land Auction

320 acres Coffey County diversified farm property

March 31, 7 pm New Strawn Community Center
 Property Location: 1 mile east of intersection of 17th Road & Hwy 75
 Agent Notes: This is a productive diversified land use agricultural property which has been well managed and adjoins the Wolf Creek Nuclear Power Plant property. Paved rd. Good hunting possibilities with substantial wildlife populations on the Wolf Creek property. Legal: NW/4 & W/2 NE/4 & E/2 SW/4 of Sect. 26-20-15, CF Cy KS

Seller: Clara R. Williams Trust
 See website for photos, bidder pre-registration & terms

- 320 acres - A diversified half section with 25 acres of upland terraced farm ground, 9 acres of CRP and the balance in pasture, meadow, waterways and road
- Adjoins Wolf Creek Nuclear Power Plant property.
- Abundance of wildlife; good hunting possibilities.
- The final payment on CRP contract occurs this year
- Pasture: Good stand of native grasses well managed; mostly open with wooded draw; several ponds & average fence.
- Paved 17th Road on S. Gravel Rd frontage on W & N sides.
- Terms: \$50,000 earnest money deposit at the conclusion of the auction. Possession as early as April 7. Closing on or before April 30, 2020.

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SKID LOADER, ATV, TRACTORS & TRUCKS: 1994 Bobcat 7753 skid loader, diesel, 46hp, 5' bucket, good tires, runs good; 2014 Polaris 570 ATV, power steering, 4x4, low hrs., good cond.; 1977 Case 2470, 4x4, power shift, tires 50%, cab, AC not working, 4,658 hrs. with JD 10' front blade, runs good; 1977 Case 1070, power shift, cab, AC not working, tires 50%, 7,678 hrs., runs good; IH 1066, cab, has not been used for several years; 1980 Chevrolet ¾ ton 4x4 pickup with 500 gal. sprayer with 45' booms, used to spray crops; 1997 Ford ¾ ton pickup, 4x4, auto, 460, 229,000 miles with Cannonball bale bed; 1986 Chevrolet ¾ ton pickup, 4x4, with DewEze bale bed; 1962 Chevrolet 2 ton truck, 10' bed & hoist, not running.

MACHINERY: JD consertill, 1', new sweeps, good disks; Case IH 4300 field cultivator, 28'; Case IH 3900 tandem disk, 20', good disks; IH 5100 grain drill, double disk; IH 900 6 row planter with dry fertilizer; IH 47 sq. baler, twine tie; Farmhand accumulator & fork, good; IH 414 hydro swing swather, 14'; JD 3pt. rotary mower, 7', good; Krause pull type chisel 11 shank; Hutchinson 40' 8" grain auger, PTO & swing unloading auger, hyd.; Culti-King field cultivator, 24'; Rhino 3pt. post hole digger with 12" auger, good; IH 35 side delivery rake; Ford 3pt. sickle mower; 2bt. fast hitch plow; IH Vibrashank field cultivator, 18'; JD 653A row head; IH 490 tandem disk, 25'; Bush Hog pull type chisel, 11 shanks; IH Cyclo planter, 6row; Miller offset disk, 12'; Hesston bale processor; JD pull type rotary mower, 14'; Danuser 3pt post hole digger with 8" & 12" bits small 2 wheel trailer with Binelli hitch; JD 510 big round baler; Hesston hydro swing swather, 14'; bale spear that mounts in a loader bucket; 3pt bale mover; IH 55 3pt chisel, 13 shanks; 200 bu. gravity box on a gooseneck trailer with hyd. auger.

LIVESTOCK EQUIPMENT: Trail Star 20' bumper pull self unloading big bale trailer, new; Top Hand squeeze chute & palpation cage, good; Powder River portable loading chute, good; 2 Pearson HD split gates on 10' overhead frames, new; 3 Pearson HD 3' walk thru gates, new; Pearson head gate, needs work; W&W bumper pull stock trailer, 16x5, rough; W&W squeeze chute; mineral feeder; 15 10' metal feed bunks; pipe including 40 8' 2 3/8" posts, 40 9' 2 7/8" posts, 20 9' 3 1/2" posts, 20 4 1/2" 9' posts, 25 30' sticks of 2 3/8"; DewEze bale bed arms on flatbed with pump & electronic control; 16'x7' bumper pull flatbed trailer; several dog pen panels; 3,000 watt generator.

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Feed Your Mind Initiative aims to better educate consumers

The U.S. Department of Agriculture (USDA), Environmental Protection Agency (EPA) and Food and Drug Administration (FDA) have partnered to announce a new public education campaign aimed at helping consumers better understand what is in their food.

The "Feed Your Mind" initiative was developed to answer the most common questions that consumers have about GMOs, including what GMOs are, how and why they are made, how they are regulated and to address health and safety questions that consumers may have about these products.

"Biotechnology has allowed important advances in crop technologies and improved our farmers' ability to continue to provide safe, nutritious and affordable food," said U.S. Rep. Roger Marshall, M.D. "Unfortunately some consumers have fallen victim to untrue or misleading rumors about what biotechnology or GMOs are, creating confusion and stifling innovation in the agriculture industry."

The public information found at <https://www.fda.gov/food/consumers/agricultural-biotechnology> represents the first phase

of the "Feed Your Mind" initiative. The steering committee - made up of representatives from all three federal agencies - will be announcing additional resources for educators, healthcare professionals, nutritionists and others in the coming months and early 2021.

"I want to applaud the Trump administration for taking on the important task of providing factual and informative information about the food we grow right here in Kansas and across the U.S.," said Marshall. "No consumer should have to fear their food or question the technology that goes into making their meals possible. I know our farmers work daily to inform the public about what they do in the field and these resources will be an important supplement to their outreach efforts."

What others are saying: "While foods from genetically engineered plants have been available to consumers since the early 1990s and are a common part of today's food supply, there are a lot of misconceptions about them," said FDA commissioner Stephen M. Hahn, M.D. "This initiative is intended to help people bet-

ter understand what these products are and how they are made. Genetic engineering has created new plants that are resistant to insects and diseases, led to products with improved nutritional profiles, as

well as certain produce that don't brown or bruise as easily."

"Farmers and ranchers are committed to producing foods in ways that meet or exceed consumer expectations for freshness,

nutritional content, safety, sustainability and more. I look forward to partnering with FDA and EPA to ensure that consumers understand the value of tools like genetic engineering in meeting those expect-

tations," said Greg Ibach, under secretary for Marketing and Regulatory Programs at USDA.

"As EPA celebrates its 50th anniversary, we are proud to partner with FDA and USDA to push agricultural innovation forward so that Americans can continue to enjoy a protected environment and a safe, abundant and affordable food supply," said EPA Office of Chemical Safety and Pollution Prevention assistant administrator Alexandra Dapolito Dunn.



Silveiras Forbes 8088 won grand champion bull at the 2020 Southwestern Exposition and Livestock Show's Roll of Victory (ROV) Angus Show, Feb. 1 in Fort Worth, Texas. Silveira Bros., Firebaugh, Calif., and Chris and Sharon Sankey, Council Grove, own the April 2018 son of Silveiras Style 9303. He first claimed junior champion. Chad Holtkamp, West Point, Iowa, evaluated the 137 entries.

Photo by Next Level Images



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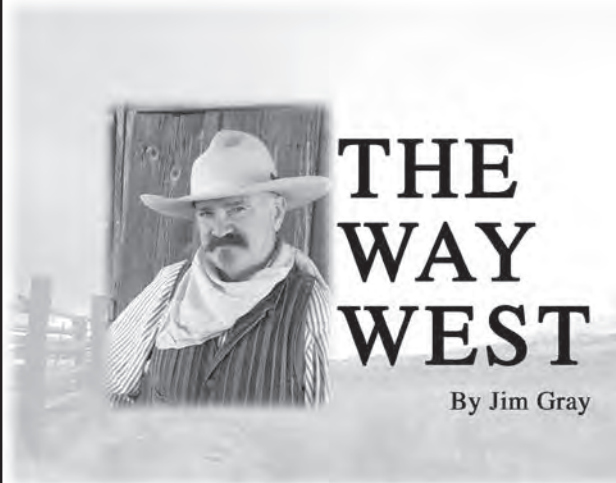
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THE WAY WEST

By Jim Gray

The Beef Revolution

When Texans turned their great herds of long-horn cattle north to railheads in Kansas, they were probably not thinking about the revolution that they were setting in motion. Driving cattle was nothing new. Cattle had been driven to far away markets since the early days of colonial America. No, driving cattle wasn't new, but driving them to an isolated railhead mar-

ket out on the plains was indeed a novel idea. Those railheads, beginning with Abilene, were far from the ultimate consumer living in the large cities. There were several components to the new cattle revolution.

Cattle buyers experienced the first breath of revolution. Instead of waiting for the cattle to come to the city, buyers went to the cattle, creat-

ing another revolution for the delivery of cattle on the railroads. Tens of thousands of cattle loaded onto waiting rail cars were destined for the feeding yards in Iowa, Illinois, and Indiana, or shipped to packing plants in Chicago and St. Louis.

The third front in the livestock revolution involved locating packing plants closer to the heart of supply. Edward W. Pattison was quick to recognize that potential. In 1867, the first year that Texas cattle were driven to Abilene, Pattison established a packing facility at Junction City on the banks of the Smoky Hill River. The *Emporia News* reported on September 6, 1867, that construction, that included an additional boarding house for forty men, would begin soon. Pattison had already purchased four thousand head of cattle and "... will commence slaughtering as soon as it is possible to get his house ready."

Pattison traced his interest in cattle to his youth in Indiana. At seventeen he engaged in driving livestock to the region's principal market at Cincinnati, Ohio. Ten years of trailing cattle brought him into an intimate relationship with all aspects of the business, including an in-depth education of the particulars of packing the meat of cattle and hogs. By carefully saving his money he built his own packing house outside of Indianapolis. The location along Indiana's Central Canal afforded access in shipping his product into Indianapolis. He closed his young business after two years of operation when the canal was destroyed by flood in 1847.

On the rebound, Pattison tried selling meats by commission in Cincinnati, later moving to Indianapolis, to handle cattle and hogs in various ways, feeding, shipping, and packing. By 1862, Pattison was able to build a new full-time packing business, which he operated until moving to Kansas in 1867.

Although Pattison's Junction City packing house proved successful he soon realized that Kansas City at the mouth of the Kansas River offered the ideal location for beef packing. In 1868, Pattison joined with J. W. L. Slavins

and William Epperson to build the first large-scale packing house in Kansas City, Kansas. The Kansas City facility could process four hundred cattle each day. That year the company bought on the prairies and packed over two thousand head of cattle.

Another packing house was built the same year of 1868, by Thomas Bigger, formerly of Belfast, Ireland. He focused on packing hogs for the Irish and English markets. Although Pattison & Slavins originally opened as a beef packing house, they contracted to slaughter hogs for Mr. Bigger who then packed the meat in his own business house on St. Louis Avenue, West Kansas City.

Ownership in these companies was very fluid with partners changing relationships every few years and at times on a yearly basis. Slavin and Epperson sold their interests to Dr. F. B. Nofsinger, creating Nofsinger, Pattison & Company. Nofsinger bought out Pattison at the close of the 1869 season, renting his facility in 1870 to the Chicago based Plankinton & Armour.

During the early years of the range cattle business there were no organized cattle handling facilities at Kansas City other

than railroad yards used for resting and feeding cattle being shipped through to other points. Thus, the Kansas City Stock Yards were built in 1871, on the West Bottoms south of the mouth of the Kansas River. Men who assumed the responsibility for looking after the welfare of the livestock, and handling their sale were employed as commission men, bringing to Kansas City all the services needed for a well-rounded livestock industry.

Pattison remained close to the cattle business for the remainder of his life, establishing cattle ranches in central Kansas, pioneering cattle feeding lots, as well as launching a prominent commission business. For his part, Edward W. Pattison not only witnessed the growth of the packing industry in Kansas City, he led the Kansas beef revolution with every move he made on The Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth Kansas on the Violent Frontier, Ellsworth, KS. Contact Kansas Cowboy, 220 21st RD Geneseo, KS. Phone 785-531-2058 or kansascowboy@kans.com.*

KCA and Valley Vet to host regional cattlemen's meeting

Kansas Cattlemen's Association (KCA) and Valley Vet Supply will host a regional cattlemen's meeting on Tuesday, March 24th, 2020 at 6:00 p.m. in Marysville. The meeting will be held at the Valley Vet Supply Retail Store, 1118 Pony Express Hwy. A free USA-Beef meal will be served.

KCA CEO/executive director Tyler Dupy will discuss legislation and policy relating to independent cattle production and other KCA initiatives. Topics of discussion will include the Kansas Legislative Session, Beef Checkoff, Fake Meat, and more.

The meeting will include a tour of the Valley Vet Supply Retail Store. Valley Vet began as a veterinary clinic in 1973, and soon transitioned into a veterinary supply mail-order retailer. Through the years, Valley Vet has grown to include a national veterinary pharmacy and significant online presence. Still today, the products and medications offered are curated by those who truly know best for your furry friends and livestock, those who still live the farming, ranching, and pet-loving way of life.

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KCA events provide you the opportunity to hear cattle industry information, meet with other independent cattle producers, and learn about the Kansas Cattlemen's Association. Please feel free to invite your neighbors and friends to come along. The presentations and supper are free and open to the public. Proud sponsors include: HydraBed by Triple C Inc., Linn Post & Pipe Supply, Key Feeds, Frontier Farm Credit, Home Oil Services, Citizens State Bank of Marysville, Marysville Livestock, Inc., Farmers Cooperative, Datamars, Inc., Valley Vet Supply, LandMark Implement, and State Auto Farm & Ranch Insurance. To ensure enough food for everyone, we ask that you RSVP by calling 785-238-1483.

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AROUND KANSAS
by Deb Goodrich

Our weekly wildlife segment on *Around Kansas* is sponsored by the Western Kansas Wildlife Travel Center in Oakley (Mitten's at Exit 76. Meet me at IHop sometime!) So each week I look for some interesting topic to share with our viewers. Wildlife is really a catchall for anything outdoors so we discuss archaeology and other out-

door pursuits. Fortunately, the variety of stories is endless, and made even easier by the expertise of our friends (the fact that Dr. Jake is a veterinarian and well-versed in animals is a huge help, too!). We have been setting up at gun shows to sell raffle tickets for the Fort Wallace Museum, as well as promoting the museum,

selling books and DVDs, etc. The folks who come by to visit are wonderful and often comment on seeing us on television or reading this column. We often have experts in their respective fields dropping by, like wildlife biologist Kurt Meier the other day. Our wildlife biologists are just a treasure of knowledge! We have so many resources at our fingertips that we rarely take advantage of, and these guys and gals are among them. So, deep in conversation with Kurt, he starts sharing stories of the wild. He regaled me with stories of the tarantula hawk. The tarantula hawk is not a bird, but an insect, even though it is nearly as large as some small

The female goes out on the prowl and finds an unsuspecting tarantula and she pounces and stings him. The sting will paralyze the tarantula and she will then drag him back to her den, lay her eggs inside the tarantula's abdomen, and then close up the den so he can't escape should the paralysis wear off. The tarantula becomes the host for her eggs to grow until eventually they hatch into larvae. The larvae then feast on the poor creature until it dies. Doesn't this sound like an episode of *Criminal Minds* or a Stephen King horror story? According to the Na-

tional Park Service, the roadrunner is one of the few critters willing to risk the sting of the tarantula hawk in order to eat him. I guess for a roadrunner, that insect is a pretty big irresistible bite, and just another reason to root for the roadrunner. Thank you, Kurt, for my most recent nightmares. Beep beep. *Deb Goodrich is the host of the Around Kansas TV show and the Garvey Texas Foundation Historian in Residence at the Fort Wallace Museum. She chairs the Santa Fe Trail 200 in 2021. Contact her at author.debgoodrich@gmail.com.*

K-State makes move to developing canola hybrids

Kansas State University is hoping to give a boost to growing canola in the southern Great Plains as it embarks on developing hybrid varieties that are specific for the region.

"We've traditionally developed open pollinated varieties," said K-State Research and Extension canola breeder Mike Stamm. "Those varieties are developed similarly to how we've developed wheat varieties in the sense that you're selecting lines over many years until you get to what is called a pure line."

Open pollination relies on varieties that self-seed or receive pollen from nearby plants. "A hybrid takes two distinct parents, crosses them together and takes the best traits of both," Stamm said.

Regardless of the crop grown, hybrids are known to be more vigorous with traits desired for specific growing conditions. K-State's breeding program, Stamm said, has routinely developed varieties that survive harsh winter conditions well.

Recent K-State trials also indicate that new canola hybrids will have

greater lodging tolerance, or able to stand upright in saturated soils.

"Developing hybrids for the southern plains is the next step for our breeding program," Stamm said. "Hybrids are not new to growers, but developing ones that are adapted to our environmental conditions is something that is new."

Canola is an alternative winter crop in Kansas and other areas of the southern Great Plains. It is most commonly grown in rotation with wheat, though some growers also rotate the crop with soybean, corn or sorghum.

"Growers know the benefits of crop rotation, especially those who have rotated continuously," Stamm said. "Wheat growers, in particular, have seen an immediate impact in their yields and quality following canola. The subsequent wheat was 10% to 40% better following canola their first year, especially if that farm had been in continuous wheat for decades."

As a cooking oil, canola has a good reputation, including a qualified health claim to helping reduce

cardiovascular disease. It is the second-most consumed cooking oil in the United States, behind soybean. Canola also has a variety of non-edible uses, such as biodiesel, cosmetics and lubricants.

The majority of U.S. canola is grown in the northern Great Plains, including North Dakota and Minnesota. In 2014, about 400,000 acres in the southern Great Plains - Kansas and Oklahoma, especially - were dedicated to canola.

But inconsistent weather conditions and lower commodity prices for canola have contributed to farmers in the southern Great Plains moving away from growing the crop.

"We're hoping that our transition to developing more advanced hybrids will produce a step change in the consistency of the crop in the plains," Stamm said. "Farmers are always clamoring for canola to be as consistent as wheat. By developing hybrids that are adapted to our conditions, we think we can make that next step for the industry."

Stamm estimated a five- to ten-year timeframe for

new hybrids to be available publicly from the K-State program, though he and others will be growing and testing new hybrids this fall.

"This is probably the most exciting thing that I've worked on in 15 years working with canola," he said. "This is the thing I hope gets us over the hump."

REAL ESTATE & FARM EQUIPMENT AUCTION

SATURDAY, MARCH 28, 2020 — 10:00 AM
LOCATION: 1905-17th Road — Geneseo, Kansas

Real Estate Sells at 10:00 a.m
35 acre farmstead with 2 bedroom house and buildings.

FARM EQUIPMENT: 1972 JD 4020 diesel, 3 pt., dual hyd.; 1961 JD 4010 diesel, Full Vision cab, 3 pt., dual hyd.; 1939 Ford 9N, good tires; 1998 Titan Challenger 16' gooseneck cattle trailer; full line of older farm & livestock equipment

COLLECTIBLES: Wooden ladders; 12 hole wooden chicken nest; branding irons; chicken feeder; pot belly stove; child's sled.

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Greg Vering	Marysville	785-562-7164
Midwest Farm & Dairy	Hutchinson	877-221-7221
Tim Deters	Baileyville	785-294-0523

602± Acres of PRATT COUNTY, KS Land ABSOLUTE LAND AUCTION
WEDNESDAY, MARCH 25, 2020 — 1:30 PM
Sale Site: Hamm Auction Center, 107 NE State Road 61 — PRATT, KANSAS
Directions are 1 1/4 mile North of 54 HWY on Cairo Blacktop.
SELLER: DONALD GRIER ESTATE

TRACT 1: Legal Description: NE4 & N2SE4 of 30-21-11, Pratt County, KS.
Land Description: All Pasture. Minerals pass to the buyer.

TRACT 2: SE4 SE4 of 30-27-11 Pratt County, KS.
Land Description: 40± acres, including 2015 built home with 1711 sq. ft. (earth berm home), 2 bedroom, 1 1/2 bath with a safe room, pond & wild life influence. Minerals pass to the buyer.

TRACT 3: E2 NE4 & NE4 SE4 of 31-27-11, Pratt County, KS.
Land Description: 122± acres of land (dryland and grass land & Ninnescah River). Minerals pass to the buyer.

TRACT 4: NW4NW4 of 32-27-11, Pratt County, KS.
Land Description: 40± acres of dryland & grassland & Ninnescah River. Minerals pass to the buyer.

TRACT 5: W2 E2 of 06-28-11, Pratt County, KS.
Land Description: 160± acres of dryland, grassland, small house & machine shed.
Northern Natural payment 2020 to the seller, 2021 to the buyer.

The Following applies to all Tracts:
Taxes: 2019 Taxes paid by the Seller. 2020 Taxes paid for by the Buyer. Title Insurance & Escrow Agent Closing Fee: Split 50% Buyer, 50% Seller, First American Title, 126 E. Third Street, Pratt, KS. Earnest Money: \$10,000.00 Down Day of Sale. Balance in Certified Funds on Closing Day. Closing: On or Before April 30, 2020. Possession: All grass/pasture land on closing, cropland planted to wheat following 2020 wheat harvest. Fallow & out ground following 2020 fall crop harvest. Buyer receives 1/3 of the 2020 crop, pays 1/3 crop expenses.

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Nebraska team links wild wheat gene to drought tolerance in cultivated wheat

New research from the University of Nebraska-Lincoln has led to the discovery of a novel gene that improves drought adaptation in wheat — a breakthrough that could contribute to increased world food security.

In new research published in *Plant Biotechnology Journal*, Harkamal Walia, associate professor and Heuermann Chair of Agronomy and Horticulture at Nebraska, and colleagues describe a novel form of a gene obtained from wild wheat that has the potential to improve drought tolerance in cultivated wheat. Introducing this gene into cultivated

wheat improved the plant root structure so that it continued to grow in search of water under dry soil conditions.

Wheat is the most widely grown crop in the world and, together with rice, provides more than 50% of the caloric intake of humans globally. Like other crops, wheat is exposed to a wide range of environmental limitations, such as high temperature, disease pressure and drought.

The scavenging nature of wheat root systems during times of drought may have been lost when wild wheats were adopted for agriculture by early humans or as cultivated

wheat was bred for improved responsiveness to irrigation and fertilizers during the mid-1900s. This improved responsiveness was key to feeding a booming world population during the 1960s.

As today's producers strive for "more crop per drop" to feed a world population that is again in the midst of a boom and is expected to grow from about 7.5 billion today to more than 9.6 billion by 2050, it is evident that future crops will need greater drought resilience. The discovery by Walia and his colleagues could represent an important new genetic resource, enabling

breeders to recapture this natural survival trait in cultivated wheat. The University of Nebraska-Lincoln has secured a patent on the discovery via NUTech Ventures, enabling future commercialization of this technology.

The potential impact of the discovery grew substantially when the team found that adding the wild root gene also resulted in plants with larger grains in the absence of drought. Walia and his team were not expecting this, as introducing tolerance to a stress can sometimes result in lost productivity when the stress is absent.

"This particular trait may have the opposite ef-

fect, which is a benefit in both conditions," Walia said. "We are now working to understand the reason behind this surprising finding."

The genetic engineering of wheat plants was performed at Nebraska's Center for Biotechnology.

Walia is one of many researchers worldwide helping to develop a catalog of genes that will contribute to creating more robust plants for the future. Drought response is a complicated trait, Walia said, which involves many genes contributing to survival and productivity when water is limited. He hopes that research in this area will continue to dis-

cover new genetic resources that plant breeders and geneticists can use to develop more drought-tolerant crops.

"From a genetic improvement perspective, it takes a community to make a crop more adaptive," Walia said. "This finding is one piece of a very large puzzle."

The research was spearheaded by doctoral students Dante Placido and Jaspreet Sandhu in the Department of Agronomy and Horticulture. The work was supported by the Institute of Agriculture and Natural Resources and the Robert B. Daugherty Water for Food Global Institute.

Find smoke modeling, weather forecasts on Ksfire.org site

Given recent dry and warm conditions, prescribed fire activity in the

Flint Hills and throughout the Plains region has begun, with ranchers and

landowners using the practice to improve grazing distribution and decrease undesirable vegetation. In order to balance the use of prescribed fire with the need for clean air in downwind communities, those planning to burn should consider the Smoke Management Plan.

Through its voluntary approach, the plan leaves flexibility in the hands of the land manager, but puts the responsibility on him or her to make wise decisions. Resources available on www.ksfire.org will help ranchers prevent problematic smoke events in highly populated areas by giving them access to powerful online tools. One map shows the potential smoke impact of burning in a specific area on urban air quality. A smoke modeling tool allows someone to see where smoke will go from a fire in a specific location.

Last year, more than 2.6 million acres were burned in 17 Kansas counties making up the Flint Hills. This was up from just over a million acres in 2018. Drought conditions and less than ideal weather in 2018 led to the fewest number of Flint Hills acres burned since 2013.

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2-DAY AUCTION REMINDER

BOTH DAYS: Auction held at Clay Center Army, 12th & Bridge — CLAY CENTER, KANSAS
FRIDAY, MARCH 20, 2020 — 9:00 AM
Duck figurines, pictures & other duck-related items; other pictures & new picture frames.; automobile-related items; Chilton & other manuals; farm machinery-related knick-knacks; tools; household; Lots of DVDs, Antique & Other Furniture, globes & more!
SATURDAY, MARCH 21, 2020 — 9:00 AM
LARGE TOY AUCTION. APPROXIMATELY 1,000 TOYS!
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Greg Kretz, Salesman & Auctioneer: (785) 630-0701
Guest Auctioneer: Randy Reynolds, Abilene, KS, 785-263-5627

FARMLAND AUCTION

158.13 ac. of Clay County Land near Green, KS
THURSDAY, MARCH 26, 2020 — 7:00 PM
Auction to be held at the GREEN, KS Community Center
93.30 ac. classified as cropland which includes 88.42 tillable ac. & 4.88 ac. of waterway. 58.81 of the tillable acres are currently being cultivated. The remaining 29.61 tillable acres were formerly enrolled in the CRP program and are currently put up for hay. There are 47.46 ac. of pasture with 2 ponds and very good fences. The remaining 17.37 ac. is meadow and habitat. *The auction firm is working for the sellers.*

See last week's Grass & Grain for more information & go to kretzauctions.com or kansasauctions.net for the listing, FSA maps & any additional information, updates or changes

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AUCTION

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MONDAY, MARCH 30, 2020 — 10:00 AM
AUCTION LOCATION: 973 Co. Rd. 66 — UTICA, KANSAS
From I-70 Exit 107 at Quinter, KS go South 15 miles on K 212/Castle Rock Road to K Road, West 3 Miles to 66 Road, South 1 mile. From Utica, KS go West 3 miles to A Rd/Castle Rock Road, North 15 miles to K Road, West 3 miles to 66 Road, South 1 mile.

(11) Tractors: Case IH 400 Steiger Row Track, 3pt, 1290 hrs., Case IH Maxxum, 125 FWA w/loader & grapple, 1290 hrs. **Combine & Grain Cart:** Case IH 8120 W/Duals, 1280 Eng. hrs., 945 Sep. hrs., Kenzie 1050 Row-crop grain cart, duals. **Forage Harvester:** Claas 860 Jaguar, Kemper 4500 Champion 20' folding Head. (2) **Wheel Loaders:** CAT 950B Wheel Loader, 3 1/2 yd., 2 new front tires, CAT 920, 2yd. (11) **Trailers:** Donahue 36', GN 3 axle, Starlite 24' GN, Neville 48' drop deck equip w/spray tanks, Wilson cattle pot. **Farm Machinery:** IH 730C Ecolo-Tiger disc ripper, SF 9433 40'X10"dd drill, SF Sweeps 7X6's, Miller 30' disc, 2013 NH round baler. *Many Items too numerous to list!*
Auctioneer's Note: This is a nice line of farm machinery and livestock equipment. Most of the larger late model equipment was purchased new and has been shedded when not in use. *Please see our website for additional pictures and information of items, too numerous to list.*

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LAND AUCTION

57 Acre +/- Saline Co. Farm on Spring Creek
Where: Holiday Inn, 3145 S. 9th St., Salina, KS, March 31, 2020 7:00PM

Legal Description: W/2 NE/4 & E/2 NW/4 of Section 13-14-4, Saline County, lying South of the centerline of Spring Creek
Located: Just 4 miles West of Salina at Lightville Rd. and Carmony Rd., then west 1/4 mile via ingress/egress easement
37 Tillable Ac +/- with bal in timber/Spring Creek
22.29 Base Acres: Wheat 9.85 - Soybeans 4.27 Sunflowers 1.81 - Sorghum 6.36
Taxes: \$ 496.96 on 56.46 taxable acres
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Equal Opportunity Cowboy

Betty Lynne is a cowboy. If you don't believe it ask her husband to show you the snapshot of her bruise.

Last summer they had a cow killed by lightning on their ranch. They figured they'd better bring in the orphaned calf. The afternoon of the rescue, Betty Lynne saddled ol' Frosty, a reliable ex-Appaloosa race horse. That allowed Sean, her husband, to ride T-Bird, one of the colts they were training.

They trailered to the pasture. Sean stayed outside the bunch, practicing quarter circles and slides, while Betty Lynne searched for the little black heifer calf they knew to be the dogie. She spotted the calf and eased up. She missed the easy shot. The calf was wild as a deer and evaded loop after loop as Betty Lynne and Frosty chased her back and forth across the Montana horizon.

Frosty was losing patience and Betty Lynne was frustrated. As she said, she never claimed to be a header and has always been envious of men

who are not hampered by fallen bra straps while in hot pursuit of a critter. "Messes up yer swing," she says.

At last she'd lined up on a decent shot and let sail a pretty loop. Suddenly aware of the drama unfolding in front of her, the biggest, fattest cow in the county looked up from her grazing and stuck her head square in the loop!

The calf ran off (snickering, no doubt), the cow spooked and Betty Lynne lost her dally. The cow ran off after the calf.

Sean hurried to help, handed her his rope, and with a straight face, suggested she heel the cow and he'd run up and get her rope back.

Off she went, determined. It's not easy to run up on a critter who's dragging a rope behind her like a swishin' snake. But Betty Lynne got close enough to double-hock the cow. Just as she grabbed her dally, the tail of the snake brushed Frosty's feet. He blew up and left the ground! They were four feet off the ground when the cow, all 1200 pounds

of her, hit the end of the line. It was like bein' hit by a train. Frosty went sailing sideways. Betty Lynne bucked into orbit. On her descent, Frosty kicked Betty Lynne in midair, flipped her over and she landed in a sitting position. Just right to see the rest of the wreck.

Sean had just stepped off T-Bird to go for the rope. T-Bird spun across him, stepped on his foot and followed Frosty back toward the barn.

The happy couple lay ironed out in the grass and watched the cow, who had kicked out one heel, headed east draggin' both their ropes.

Although I've not seen the bruise, or the photo, Betty Lynne said it showed the accurate outline of the hoof wall, complete with frog. Somehow, I believe her.

www.baxterblack.com

Advertisement for Grass & Grain magazine featuring a tractor and the text 'THE LATEST FARMING INFORMATION IS IN GRASS & GRAIN'.

KDA accepting specialty crop grant application

The Kansas Department of Agriculture is accepting applications for the 2020 Specialty Crop Block Grant Program. Funds for the program are awarded to the agency by the U.S. Department of Agriculture's Agricultural Marketing Service.

The purpose of the Specialty Crop Block Grant Program is to enhance the competitiveness of specialty crops, which are defined by the USDA as "fruits, vegetables, tree nuts, dried fruits, horticulture, and nursery crops, including floriculture."

Applications will be evaluated by a team of external reviewers. The team will rate proposals on their ability to successfully promote specialty crops in Kansas and make a positive impact on the Kansas economy.

Applications are due to KDA no later than 5:00 p.m. on April 20, 2020. You can find more information about the grant program, including the 2020 application, at the KDA website: agriculture.ks.gov/SpecialtyCrop.

Grass & Grain prepared for virus outbreak

Precautions related to Coronavirus have caused unexpected disruption in everyday life, but the Grass and Grain staff has made plans which will allow us to continue to produce the newspaper each week in the event an outbreak should occur locally.

Please keep in mind that in the unlikely event the mail service is suspended for any reason, the newspaper is available to all of our paid subscribers online.

Each edition is emailed on Monday afternoon to those subscribers who have provided us with their email address. If you would like to be included in that group, just call the office at 785-539-7558 or email agpress3@agpress.com and we will get it set up for you.

The digital Grass and Grain is extremely easy to access and navigate. We email you the link, you click on an image of the front page and you are in. It's a stress-free process that allows you to see the paper much sooner every week online, then still enjoy the paper copy when it arrives in the mail.

Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

Selling Cattle every Monday Hog Sales on 2nd & 4th Monday of the month only!

RECEIPTS FOR THE WEEK TOTALED 917 CATTLE & 119 HOGS.

Table with columns for STEERS (400-500, 500-600, 600-700, 700-800, 800-900) and HEIFERS (500-600, 600-700, 700-800, 800-900) with corresponding price ranges.

Table listing various cattle breeds and weights such as 15 mix Galva, 4 red Gypsum, 21 mix Salina, etc.

THURSDAY, MARCH 12, 2020: STEERS

Table listing cattle sales for Thursday, March 12, 2020, including items like 5 blk Canton, 8 mix Gypsum, etc.

MONDAY, MARCH 9, 2020: HOGS

Table listing hog sales for Monday, March 9, 2020, including items like 4 pigs Esbon, 8 pigs Esbon, etc.

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY Hogs sell at 10:30 a.m. on the 2nd & 4th Monday of the month. Cattle at 12:00 Noon.

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, BRANDON HAMEL & GARREN WALROD

For a complete list of cattle for all sales check out our website www.fandrillive.com

CATTLE USA.com LIVE CATTLE AUCTIONS FARMERS & RANCHERS HAS SWITCHED BACK to Cattle USA.com for our online auctions.

LAST CHANCE to get your horses consigned to the catalog MAY SPRING SPECTACULAR HORSE SALE. Information needs to be in office this week! Contact Farmers & Ranchers for any information.

Table listing BULLS (1 blk Randolph, 1 blk Lehigh, etc.) and CALVES (5 mix Salina, 2 mix Salina, etc.) with prices.

DON JOHNSON ANGUS BULL SALE 58 FALL & YEARLING ANGUS BULLS Averaged \$3,610

Table listing TOP SELLERS: Lot 8 son of Barstow Bankroll B73 \$6,000, Lot 12 son of Rainfall 6846, \$6,000, etc.

EARLY CONSIGNMENTS FOR THURSDAY, MARCH 19, 2020 • 20 heifers, longtime weaned, vacc, gtd. open, 650 lbs. • 45 steers & heifers, vacc, no implants, 500-750 lbs. • 10 steers & heifers, October 1 weaned, 2 round vacc., 700 lbs.

EARLY CONSIGNMENTS FOR TUESDAY, APRIL 21, 2020 COW SALE BULLS: 1 Char 18 months; 3 Black Angus 18 months; 4 2 yr old Black Charolais semen & Trich tested; 4 yearling Black Charolais semen tested

UPCOMING SALES: SPECIAL COW SALES: SALE STARTS at 11 AM Tuesday, April 21 • Tuesday, May 5 WEANED/VACC. SALE: SALE STARTS at 11 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 • 42' ROUND BALE DUMP TRAILERS • HEAVY DUTY FEED BUNKS (Silage & Grain) • HEAVY DUTY 5000# GRAIN TOTE

For Information or estimates, contact:

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

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

Contact information for Jim Crowther, Lisa Long, Cody Schafer, Kenny Briscoe, Kevin Henke, Austin Rathbun, Roxbury, KS, Ellsworth, KS, Durham, KS, Lincoln, KS, Agenda, KS, Ellsworth, KS.

