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KGFA assists members in receiving short line rail funding for second-straight year

On Tuesday, August 17 Governor Laura Kelly and Transportation Secretary Julie Lorenz announced ten projects, totaling more than \$5.2 million, were awarded as part of the Kansas Department of Transportation's Short Line Rail Improvement Fund Program. The announcement took place at the Gavilon grain elevator in southwest Wichita, one of the recipients of program funding.

"These ten improvement projects will connect Kansas grain businesses with new regions and customers, supporting farmers and our agriculture industry," said Governor Laura Kelly. "My administration will continue to invest in needed and commonsense infrastructure improvements like these to strengthen our growing economy."

Kansas Grain and Feed Association's (KGFA) member Gavilon Grain hosted a celebratory event announcing recipients of short line rail improvement funding from the Eisenhower Legacy Transportation Plan.

KGFA President and CEO Ron Seeber and Gavilon's Vice President and General Manager of the North America Grain Division Matt Gibson joined remarks from Kansas Governor Laura Kelly and Secretary of Transportation Julie Lorenz.

"The infrastructure in the United States is second to none, however our competitors in other countries are making great strides in their infrastructure allowing them to compete at a much more competitive level," Gibson said. "Partnerships between industry and government like the Kansas short line rail improvement program help us keep these advantages we currently have in place."

The cost-share grant program is a three-year,



Gov. Laura Kelly gives remarks at Gavilon Grain in Wichita, announcing ten projects totaling more than \$5.2 million that were awarded as part of KDOT's Short Line Rail Improvement Fund Program.

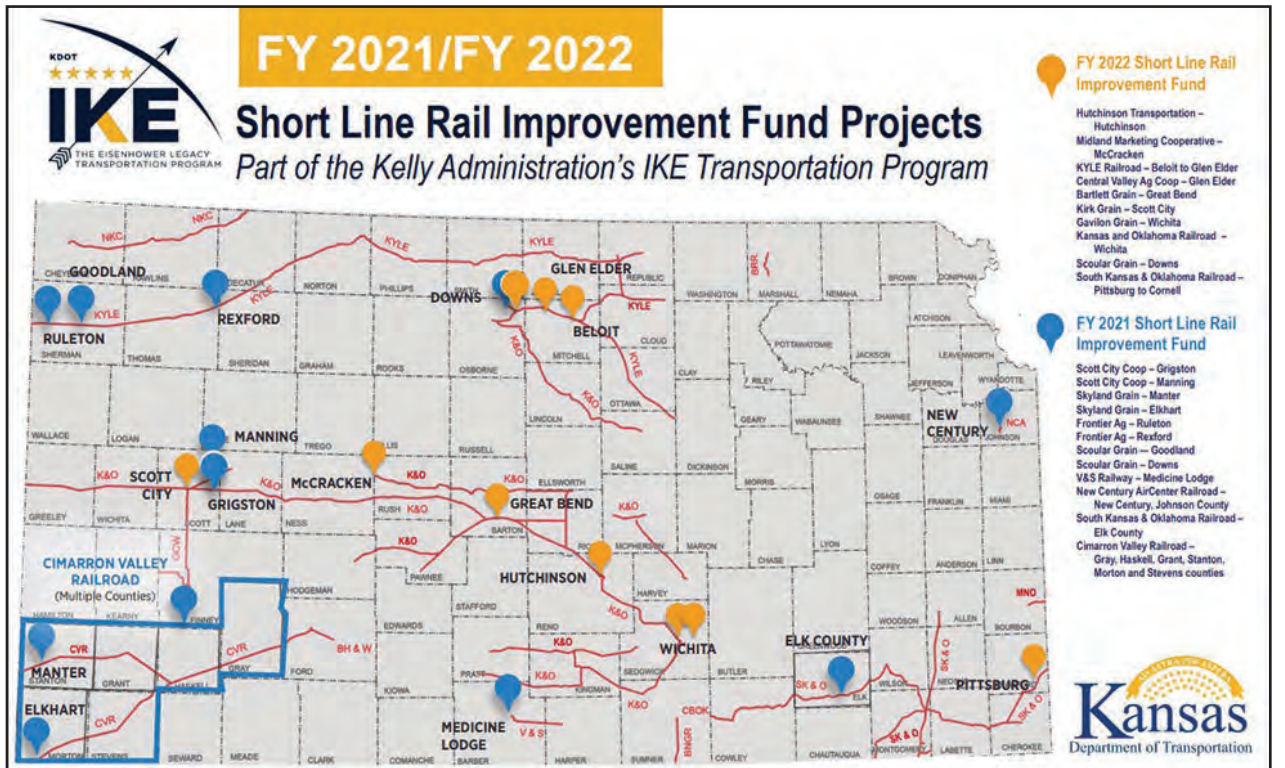
the ten projects will be enhanced by a 30 percent match from each recipient, meaning more than \$7.4 million will be invested in the state's agricultural infrastructure.

When completed, the improved rail infrastructure will allow shippers to nearly double railcar loads annually, up to 4,200 cars a year, decreasing the amount of heavy truck traffic on Kansas highways by nearly 14,000 per year.

"When we successfully helped pass this legislation in 2020, we knew everyone will benefit from this program for many years to come," Seeber said. "Farmers will see improved rail service to ship their crops and receive inputs to grow them. Rail and shipper employees receive improved safety. Our underserved Kansas

\$15 million program that provides 70 percent state money to 30 percent investment by the eligible entity for improvements. The geographically dispersed organizations awarded projects for funding of rail sidings, rehabilitation and track extensions were: Bartlett Grain (Barton County), Central Valley Ag Co-Op (Mitchell County), Gavilon Grain (Sedgewick County), Hutchinson Transportation (Reno County), Kansas and Oklahoma Railroad (Sedgewick County) Kirk Grain (Scott County), KYLE Railroad (Mitchell County), Midland Marketing Cooperative (Rush County), The Scular Company (Osborne County) and South Kansas and Oklahoma Railroad (Crawford County)

"Combining state and private funds to improve local infrastructure illustrates a core principal of the IKE program," Kelly said. "Through mutual commitment, and by emphasizing right size, practical improvements we can address critical infrastructure needs like short line rail improvements. By modernizing short line railroads we enable the shippers they serve to keep our economy moving in the right direction, improving our rail operations, economic competi-



teness and safety." Six projects were awarded to shippers and four projects were awarded to short line railroads in nine counties across Kansas. State funding for the individual projects ranges from \$56,000 for the

installation of new scales to nearly \$2 million for siding expansion to increase railcar capacity and car-loading capabilities.

Switch and crossing replacements will reduce crossing delays for vehicles. State funding for

communities welcome the economic development of bringing new business and construction to their towns and we experience a decreased need for over-the-road transportation."

Thomson tells Beef Improvement Federation "We can sell more beef"

Seeing your own work on display can elicit pride. For those raising cattle and beef, producers often feel proud of the work they do every day to feed the world. To continue that feeling of pride, Dr. Dan Thomson, Iowa State University Department of Animal Science chair, shared the idea that producers can sell more beef if the industry takes the challenges and turns them into opportunities. During the Beef Improvement Federation (BIF) Symposium June 23 in Des Moines, Iowa, Thomson discussed how he stumbled upon this idea and how it caused his entire perspective to change.

Over time the beef industry has changed and made progress in response

to industry issues or challenges. Most times, the industry is reactive. This is where Thomson encourages a perspective shift.

"If the industry is proactive, if they meet consumers demand, the retail sector of the industry can sell more beef," Thomson explains.

When evaluating sectors of the industry, from cow-calf to retail, improvements need to be made. One of those big improvements to help the whole industry is to eliminate fighting within the industry. Thinking about the United States as a first world country where food is abundant, yet poverty and obesity are still issues may change some perspectives. Thomson suggests shifting the focus to selling beef across the globe to address the food security issue.

Sustainability comes



Dr. Dan Thomson, Iowa State University Department of Animal Science chair and formerly the Jones Professor of Production Medicine and Epidemiology at Kansas State University's College of Veterinary Medicine, spoke at the Beef Improvement Federation Symposium in Des Moines, Iowa in June, telling producers they can sell more beef by turning challenges into opportunities.

to the forefront as a solution to the food insecurity problem. However, Thomson shares how sustainability needs to be defined

in a more manageable way before everyone makes it the answer to saving the planet.

"At the end of the day

we can talk about all the components of sustainability, but we have to remain profitable," Thomson adds. "Without profitability, we cannot be sustainable."

Improvements through the years have been made that have ultimately improved the sustainability of beef production. When looking at the positive changes, a focus on animal welfare has grown tremendously. The industry is committed to eliminating antibiotic residue and resistance. Even with audits, cattle producers and other sectors of the industry go beyond checking the boxes and doing the standard, required tasks. With each challenge, a solution is discovered which ultimately improves the beef industry. This improves the sustainability of the production system which increases the opportunity

to sell more beef.

As a takeaway, Thomson shared how he believes that cattle are beneficial to the environment. Producers can sell more beef if they take the improvements they are making and the changes in sustainability and use it to market the product, not market against each other.

"We need to quit thinking about this as an agricultural issue," Thomson explains. "This is an 'if you eat' issue, this is an American issue, this is a global issue."

To watch Thomson's full presentation, visit <https://youtu.be/30jtQGN-GOrM>. For more information about this year's Symposium and the Beef Improvement Federation, including additional presentations and award winners, visit BIFSymposium.com.

New USDA report recognizes USB as forward-looking leader in bio-products

In a lively schoolyard that is home to the Boys and Girls Club of Harlem, urban and rural America came together. Students who've only read about farmers in children's books or sang Old MacDonald met actual farmers for the first time. They asked how soybeans are grown, played on newly installed soy-based synthetic grass and competed in Bingo about environmental science. The event wasn't all just fun and games, however, as youngsters also learned about a new U.S. Department of Agriculture (USDA) report showing that plant-based products, such as soy, and the bio-based industry generate

economic growth and jobs across America.

The USDA Rural Development report — *An Economic Impact Analysis of the U.S. Biobased Products Industry* — included several recommendations developed in collaboration with the soy checkoff that provided key learnings on the sustainability and performance of soy-based products.

During the Farmers on the Green event on July 29, held at the Boys and Girls Club of Harlem, soy bio-based grass distributor SYNlawn® of New York donated a new bio-based play area and partnered



New York farmer Ralph Lott II spoke to student's at the Boys and Girls Club of Harlem about how soybeans are used to make 1,000 different products, including the new soy-based synthetic grass that had been donated to their playground by SYNlawn.

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Courtesy photo



Grateful for Gatherings

By Glenn Brunkow,
Pottawatomie County
farmer and rancher

The past couple of weeks I had the privilege of attending several Farm Bureau events in person — Big Tent Reunions, Summer Summit and Young Farmers and Ranchers Leaders Conference — without masks, and it was awesome. This isn't a statement about restrictions, masks or vaccinations, it is a statement

of how much we all need social interaction and how valuable relationships are. The whole time we were staying at home, I knew I was missing people. I just didn't realize how much.

I don't know how many times in the last two weeks I commented on the fact I couldn't remember the last time I saw whom-ever I was talking to. In many cases it was prior to March 2020. That is a long

time to not see friends, and I truly believe that took as much of a toll as the virus itself.

Except for a very few of us, we humans are social beings and to not be able to do so really hurts our mental well-being. I saw it in conversations I participated in and those I overheard. Often, they would start with the usual topics like "How much rain are you getting?" or "How do the crops look?" and then evolve from there. Many times, what started out as a fairly routine conversation would lead to much deeper topics.

It makes sense, for almost a year and a half we have really only talked to our spouses, kids

and close family, and they didn't need to be told because they were there living it like we were. Here we are with 16, 17 months of pent-up joys, disasters, concerns and observations and no one to share them with. Let's face it, it is one thing to vent to your wife and kids, but it is far more therapeutic to find sympathy and empathy from a peer.

I guess that is why it was so good to attend the Big Tent Reunions I did. It was cathartic to see old friends, to share the life happenings and to find out what was going on in their lives, too. I guess I have come to realize that one of the best benefits to Farm Bureau is the friends you

develop because of your involvement.

I hope everyone else got as much out of the meetings and events we have recently hosted. Don't get me wrong, the education, advocacy and service are all things our organization is built on and represent the good and important work we do. However, at the end of the day it is the relationships and friendships we gain with fellow farmers and ranchers that make it all worthwhile. I tell young farmers and ranchers on their way to their first YF&R Conference that the most important thing you learn is you are not alone, and there are people going through the

same things you are. I believe that to be true and something that does not change with age.

The last 18 months may have limited our interactions, but I am grateful for these recent gatherings and looking forward to catching up with everyone again soon. Let's all do our part to stay safe and ensure we can see each other in person at Kansas Farm Bureau's annual meeting in December.

"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.

USB awards \$1 million to Amfora to continue development of high-protein soy

The United Soybean Board awarded \$1 million to Amfora, Inc., a biotechnology company that is applying gene editing to sustainably feed the planet, to continue the development of soybean varieties with increased protein content.

The United Soybean Board (USB) oversees a comprehensive program to increase the demand for and competitiveness of soybean grown in the United States. Checkoff funds received from U.S. soybean farmers provide the funding for projects selected by the USB that are aimed at maximizing the profit opportunities of all U.S. soybean farmers.

"Increasing the protein content of U.S.-grown soy continues to be a key, strategic objective for the USB, and we are constantly reviewing technologies for their potential to achieve this objective,"

said Rochelle Krusemark, meal target area coordinator for the United Soybean Board and Minnesota soybean farmer. "This new funding raises the total grants we have provided Amfora to \$2.6 million. We look forward to seeing Amfora's high-protein soy varieties advance to commercialization."

"We have already demonstrated that we can significantly increase the protein content of soybean seed by re-programming a genetic switch in the soybean genome. This additional support from the USB is a recognition of the value of our program as it advances towards the market," said Michael Lassner, Ph.D., chief science officer for Amfora. "By applying gene editing to re-program this switch in commercial soybean varieties, we believe we can accelerate the development and launch

of soybeans with higher protein content across the U.S. soybean belt."

Amfora is developing soybean varieties that can be used in plant-based meat and other high-value applications without the need for a capital intensive and costly concentration process.

"We are working to become a major supplier of high protein soybean meal and texturized protein to plant-based meat companies," said Lloyd Kunimoto, CEO of Amfora.

As demand for plant-based meat exceeds the supply of concentrated soy protein, Amfora's technology will allow supply to keep up with demand without the need for multi-billion-dollar capital investments within the plant-based protein supply chain.

"Our technology pre-concentrates the pro-

tein in the soybean seed," said Kunimoto. "Others are also working on this, but our technology is the best-in-class as we can sig-

nificantly increase protein content while maintaining yield. Improving the nutrient density of soy will enable food to be produced

more sustainably, with a reduced carbon footprint, and with less use of land and water."

Cattle producers help feed a hungry world

An Op-Ed by Farm
Policy Facts

A small group of radical environmentalists have declared war on America's cattle producers and sworn off burgers, all with the dubious claim of fighting climate change.

We wanted to dig into the real story behind this beef with beef. So, we called up Dr. Tryon Wickersham, associate professor of Animal Nutrition at Texas A&M University, to give the facts about cattle production in America.

Here's what we learned:

While some people mistakenly blame flatulent cattle for methane production, cattle actually belch methane. It's a natural result of the fermentation

that takes place in their digestive system as a ruminant animal.

Only about three percent of greenhouse gas production in the United States can be attributed to cattle.

Approximately 60 million methane-producing bison used to roam the United States. Today, there are about half as many cattle, and those cattle are fed specialized diets to reduce methane and increase efficient protein production.

Cattle fill an important niche in our ecosystem, helping restore grasslands through grazing.

It quickly became apparent that attempts to blame excessive greenhouse gas production sole-

ly on cattle producers and their livestock are, well, a bunch of hot air.

As Dr. Wickersham pointed out, America's cattle producers have also long striven to reduce methane production and continue to find new ways to invest in sustainability.

"If we look at the U.S., we've been on a trajectory of improved sustainability really since after World War II," Dr. Wickersham explained. "For every pound of beef we produce in the United States, we produce a third less methane than some of the other large beef producers."

Importantly, cattle are key to a dynamic and sustainable food system. That's because they turn food that humans would have trouble digesting — such as grass — into high-quality protein containing amino acids and micronutrients that are essential to our diet.

Dr. Wickersham calls this protein upcycling. He explained how protein upcycling in beef can create a more efficient protein source than corn, a food eaten by humans and livestock alike.

"If we took the corn which we would feed to a steer for finishing, we could meet the protein requirements, amino acids requirements of three children... if we fed that corn to a steer or fed that corn to cattle, we could meet the protein requirements of 17 children," he said.

This is key as we all work to feed a hungry world.

So, as Dr. Wickersham wrote in a recent op-ed: eat that burger!



It's funny how dependent we get on something we never knew we needed until we had one. I remember Dad saying that about four-wheel drive pickups. As a kid I could remember him feeding and doing everything he needed to do with his old half-ton two-wheel-drive Chevy pickup. Then when he got his first four-wheel-drive and we started going places we never would have dared go before (and getting stuck more often) we wondered how we ever did it.

There have been other ag innovations that I wondered about like when we went from all square bales to big round bales. I am too young to really appreciate that transition. I remember Dad doing all small squares and I remember the first big round baler (a Gehl we affectionately called Sparky) but I didn't appreciate the full magnitude. Now I handle a couple hundred square bales a year, not even a good day's work back in the day, but enough to appreciate how good I have it.

The skid loader is another one of those things we didn't know we needed until we had one and now, we couldn't live without it. I am forever finding new uses and applications for mine. All of this is a very long-winded way of telling you that my side-by-side, or UTV or whatever we call them is down and has been down for a couple of weeks and I don't know how I ever made it without it.

I know this is one of those first-world problems and many of you who do not have a side-by-side are wondering what I am whining about. I also know that any of you who have one feel my pain and have sympathy for my condition. Several years ago, I laughed at one of my neighbors when he said it was the one thing he would replace immediately if it went down. Now just a couple years later, I understand completely.

We have incorporated our side-by-side into nearly every task on the farm. It really seems unhandy now to go check cows or put mineral out without it. I actually have to watch where I drive and avoid certain areas because the pickup won't go there. Now I know how Dad felt about his four-wheel-drive pickup. These past couple of weeks my gas bill has gone up significantly and I once again find myself opening truck doors and climbing in and out of the pickup cab. Okay, so that might be more of an indictment of my personal fitness, but it

does make getting the gate and chores much more difficult.

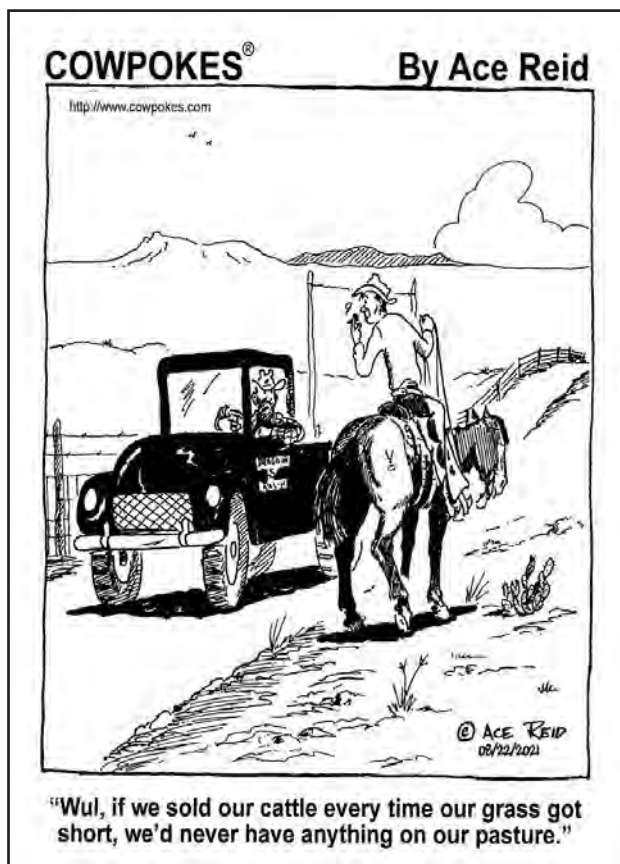
I got my first side-by-side almost three years ago and now it was not a matter if we would fix it or replace it but how long will it take. I wonder if that is how it was when pickups replaced horses and wagons? Were farmers reluctant to spend the money on a pickup when they had a perfectly good horse in the barn? Then when they found out the pickup would go faster, take less time to get ready and eat less hay, was it a revelation or a luxury?

Again, I know I am spoiled now, and I often wonder if it is really that useful or if I am trying to justify it. I am going to go with the idea that it is that useful and I don't want to hear anything to the contrary. It is amazing how fast we become dependent on new technology and how hard it is to go back to doing things the old way. I am sure the old-timers would say we are soft.

I would probably agree with that assessment because I often marvel at all of the hard physical labor farmers and ranchers used to do. All I have to do is go back one generation and Dad was feeding square bales, hauling livestock in a straight truck and operating a tractor out in the open under the elements (although there are times when the air conditioner goes out that I would say we did not advance with cabs on our tractors) I have it pretty good and shouldn't be whining about not having my side-by-side.

My point is that each generation has its advances and that is a good thing. I am much more productive and efficient than Dad was, and my back and hearing are much better for it. We, in modern agriculture, benefit from advancing technologies and because of that the whole world now has a more abundant food supply that costs them less money. I like to think I am working smarter, not harder.

I am sure I will appreciate my side-by-side even more when I get it back after a reminder of what life was like just three short years ago. I guess it isn't all bad; I seem to be getting more exercise in these days because I have to walk from the house to the barn and back instead of driving down and believe me, I can really use the exercise. I guess there is always a bright side to every bad situation.



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Control volunteer wheat early to stop the spread of disease next growing season

The rain delays and weather concerns that plagued this year's growing season and dogged down harvest progress indicate favorable conditions for volunteer wheat establishment. As a result, Kansas producers cannot let down their guard on controlling volunteer wheat as they prepare for the next growing season, lest they leave open the door for wheat streak mosaic virus (WSMV) and other diseases to survive the winter.

wheat streak is the control of volunteer wheat early and often after harvest," reported K-State in an Agronomy eUpdate on July 22. "If volunteer wheat is allowed to stand, it creates a 'green bridge,' allowing wheat streak mosaic and wheat curl mites to survive locally. Volunteer wheat should be terminated at least two weeks before planting to allow sufficient time for mites to die off."

With specific conditions varying across the state, the 2020-2021 growing season included

drought-stressed wheat in southwest Kansas, waterlogged conditions in central Kansas, hail damage, freeze damage during late boot and early heading and excessive rainfall that delayed harvest. Each of those situations might have increased the amount of seed left behind after harvest, which will likely lead to more volunteer wheat.

Among other issues, volunteer wheat provides the green tissue that wheat curl mites — which carry WSMV and other viruses — need as a suit-

able host. When volunteer wheat emerges shortly after harvest, wheat curl mites can build up rapidly and spread to other volunteer wheat stands that emerge later in the season. In contrast, if early-emerging volunteer wheat is controlled shortly after harvest, that will help break the green bridge. Glyphosate and atrazine are common herbicide applications for controlling volunteer wheat in addition to tilling.

However, if more volunteer emerges during the summer, follow-up con-

trol will still be needed. Producers should apply a second application of herbicide or till to make sure all volunteer wheat is dead within one-half mile of fields being planted to wheat in the fall. Producers should complete the second round of application or tillage at least two weeks before planting to ensure enough time for the entire population of wheat curl mites to die off.

In addition to controlling volunteer wheat in the field, producers also can select varieties with built-in genetic resistance to WSMV and other severe disease problems. Varieties adapted to Kansas with WSMV resistance include KS Dallas (red),

KS Hamilton (red), Guardian (red), Oakley CL (red), Joe (white) and Clara CL (white). Another set of varieties has resistance to the wheat curl mite, including TAM 112, Byrd, Avery, Langin, KS Western Star, Whistler, Canvas, Guardian, Crescent AX, Incline AX, Fortify SF, TAM 115, TAM 204 and T158.

This genetic resistance in these varieties is helpful, but is most effective when used in combination with strategies to control volunteer wheat. By doing so this summer and early fall, producers can help stop the spread of WSMV and other viruses and reduce a substantial limiting factor to next year's harvest.

New USDA report recognizes USB as forward-looking leader in bio-products

• Cont. from page 1

with the United Soybean Board (USB), New York Corn and Soybean Growers Association and Indiana Soybean Alliance for the celebration. As a result of SYNLaw's long-term collaboration with USB, children learned about science, soil, biodiesel and soybeans at six learning stations, and participated in games to gain real-world agricultural knowledge through interactive demonstrations and STEM activities.

"SYNLawn New York was so proud to partner with USB, the Boys and Girls Club of Harlem and the John Bowne FFA Chapter," said owner Anastasia Phillips. "We are a long-standing participant in the USDA BioPreferred program, and are excited that this event created an opportunity to educate children and adults as USDA Deputy Under Secretary for Rural Development Justin Maxson released USDA's new report with us at the Boys and Girls Club."

According to the report, the bio-based products industry:

Supports 4.6 million American jobs through direct, indirect and induced contributions.

Contributes \$470 billion to the U.S. economy.

Generates 2.79 jobs in other sectors of the economy for every bio-based job.

Displaces about 9.4 million barrels of oil a year.

Potentially reduces greenhouse gas emissions by an estimated 12.7 million metric tons of CO2 equivalents per year.

During the New York City event, USB vice chair Ralph Lott II — who farms in Seneca Falls, New York — talked to the students about how soybeans are used to make 1,000 different products, such as a pair of sandals he showed them. In the USDA Bio-based Products report, one of the case studies highlights the soy-based Okabashi® brand, stating: "These shoes are molded from a proprietary, recyclable material that is 45% soy by weight. All of the company's shoes now use the soy-based material as

a replacement for the petroleum-based component of the materials — a fact that shows that the company is living up to its environmental values."

"As a farmer, I am continually amazed by the versatility of our soybeans and how they help hundreds of companies, like SYNLaw, with their sustainability, performance and health attributes," said Lott. "USDA's new economic analysis shows that plant-based products help farmers grow demand for soy and create a platform for innovation and agriculture to grow together, while creating jobs in rural communities."

While in New York for Farmers on the Green, checkoff leaders also met with biodiesel and bio-based products users.



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ACCEPTING BEEF AND HOGS

This included the fleet leadership team for New York City, which is a long-term biodiesel user and has switched to hundreds of Goodyear's soy-based tires and other soy bio-based products for its fleet. In addition, the New York Fire and Parks Departments collaborated with USB and the Indiana Soybean Alliance on New York's first demonstration of PoreShield™, a concrete durability enhancer made with soy, at the historic Fort Totten Park to offer sustainable protection from salt, ice and water damage.

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GRASS & GRAIN Our Daily Bread

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

Jeannine Colstrom, Osage City, Wins This Week's Grass & Grain Recipe Contest
 Winner Jeannine Colstrom, Osage City: "Colorado peaches are here and this is a wonderful way to use them!"

PEACH PIE

Crumb mixture:
 1/2 cup light brown sugar
 1/2 cup flour
 1/2 cup soft butter
 9-inch unbaked pie shell
 4 cups sliced fresh peaches
 1/2 cup granulated sugar
 1/4 teaspoon nutmeg
 1 egg
 2 tablespoons light cream
 1 teaspoon vanilla

Mix the crumb ingredients (brown sugar, flour and soft butter) together until crumbly. Sprinkle 1/2 cup crumb mixture into pie shell and top with sliced peaches. Sprinkle the granulated sugar and nutmeg over the peaches. Combine the egg, cream and vanilla. Beat together and pour over peaches. Top with remaining crumb mixture. Bake at 375 degrees for 40 to 45 minutes until pie turns a golden brown.

Jackie Doud, Topeka: BREAKFAST SCRAMBLE

5 eggs
 2 tablespoons milk
 1 cup chopped & cooked ham
 1 cup shredded Cheddar cheese
 1/4 teaspoon salt
 1/4 teaspoon pepper
 1/8 teaspoon garlic powder
 2 1/2 tablespoons butter
 1/3 cup finely chopped onion

Whisk eggs and milk. Stir in ham, cheese, salt, pepper and garlic powder. Melt butter in a large skillet over medium heat. Add onion and cook until tender, about 3 minutes. Add egg mixture and cook gently folding occasionally with a spatula

until eggs reach desired consistency, about 3 minutes.

Jana Rollman, Washington: DOUBLE CHOCOLATE COCA COLA CAKE

1 cup Coca Cola
 1/2 cup oil
 1 stick butter
 3 tablespoons cocoa
 2 cups sugar
 2 cups flour
 1/2 teaspoon salt
 2 eggs
 1/2 cup buttermilk
 1 teaspoon baking soda
 1 teaspoon vanilla

Frosting:
 1 stick butter
 3 tablespoons cocoa
 6 tablespoons cream or milk
 1 teaspoon vanilla extract
 3 3/4 cups confectioner's sugar

In a saucepan mix Coca Cola, oil, butter and cocoa; bring to a boil. In another bowl combine sugar, flour and salt. Pour the boiling Coca Cola mixture over the flour mixture and beat well. Add the eggs, buttermilk, soda and vanilla and beat well. Pour mixture into a greased and floured 9-by-13-inch baking pan and bake at 350 degrees for 20 or 25 minutes. Remove from pan. Cool for about 10 minutes before frosting.

Frosting: In a saucepan combine the butter, cocoa and milk (or cream). Heat until the butter melts. Beat in the remaining ingredients and spread on the cake while it's still warm. Enjoy."

Millie Conger, Tecumseh: PINEAPPLE ZUCCHINI BREAD

1 cup sugar
 1/2 cup oil
 2 eggs
 1 1/2 cups flour
 1 1/2 teaspoons baking soda
 1/2 teaspoon baking powder
 1/2 teaspoon salt
 1 teaspoon cinnamon
 1 packed cup shredded zucchini

1/2 cup well-drained crushed pineapple
 2 teaspoons vanilla
 Grease a 9-by-5-inch loaf pan. Beat sugar and oil. Add eggs and mix until well blended. Mix dry ingredients and then add to wet mixture. Beat until blended but don't over-mix. Stir in pineapple, zucchini and vanilla. Bake at 350 degrees for 50-60 minutes or until toothpick comes out clean. Let cool in pan 15 minutes. Dust with powdered sugar.

Kimberly Edwards, Stillwater, Oklahoma: BURRITO CASSEROLE
 1 pound ground beef
 1/2 chopped onion
 1 packet taco seasoning
 1 can refried beans
 6 large flour tortillas

2-3 cups Cheddar cheese
 1 can cream mushroom soup
 4 ounces sour cream
 Brown the beef with onion. Add seasoning and beans. Mix soup and sour cream in a bowl. Spread half of sour cream mixture on bottom of casserole. Tear up 3 tortillas and put on top of sour cream mixture. Put half of hamburger mixture on that. Add a layer of cheese. Repeat layer. Sprinkle cheese over top. Bake at 350 degrees for 20-30 minutes.

Kellee George, Shawnee: ZUCCHINI BOAT

1 large zucchini
 1/2 pound hamburger
 1/4 cup chopped onion
 4-ounce can tomato sauce
 1/2 cup Cheddar cheese
 1/2 cup Mozzarella cheese
 Cut zucchini in half lengthwise and scoop out insides. Cook hamburger and onions; add tomato sauce. Put Cheddar cheese along scooped out zucchini. Add hamburger mixture. Bake at 350 degrees for 20-25 minutes. Put Mozzarella cheese on top for last 5 minutes. You can add larger ingredients quantities if squash is bigger.

Rose Edwards, Stillwater, Oklahoma: LEMON ZUCCHINI MUFFINS

1 1/2 cups shredded zucchini
 3/4 cup sugar
 1/2 cup oil
 1 egg
 1 1/2 cups flour
 2 teaspoons lemon zest
 1 teaspoon cinnamon
 1/2 teaspoon baking soda
 1/4 teaspoon baking powder
 1/2 teaspoon salt
 Set oven 375 degrees. Grease 2 1/2-inch muffin tins, about 10. Stir zucchini, sugar, oil and egg. Add dry ingredients to zucchini mixture just until blended. Fill cups 2/3 full. Bake 15-20 minutes or until toothpick comes out clean.



Baking With Sugarbuns

By Michele Carlyon
 "Enough Of This Nonsense!"

No matter where you grow up there is a decent chance that depending on what you and your family are immersed in, there are family names in your area that are just known for being involved. The families that are tied to the church and always involved with everything churches are doing. There are families that are heavily tied to sports, the family that you know will always be in the crowd if you are playing one of their kids' teams. Families that are deeply immersed in politics, their communities or so many other things; bottom line being, people who care and people who are passionate are memorable, leaving everyone around them to remember their name.

When you grow up in a smaller town, many times that comes in the form of farm families. The families that have lived and breathed farming for generations to come; sure, they might have family members deviate from the usual, but farming runs deep in their blood and people know it. Growing up in Junction City, there were names that I have always heard when it came to anything farming: Strauss, Kramer and Polland. For as long as I can remember they were the big three names that would come up repeatedly. Clearly there are many other families that farm in Junction City, but everything seemed to drift back to those three family names if you heard people talking farming.

If you were to ask me to pinpoint these people, for the most part, I could not, but there is one that has made quite the impact on my two little nieces, and that would be none other than Larry Kramer. Before the girls came into my world, I knew who Larry was, but did not know much about him other than he farmed, and he was known to be a little bit ornery and just maybe a little tight with his money.

Over the past four years, and many trips to Stacy's (restaurant), with Mika and Chloe, I can quite confidently tell you that if they could pick one person that they love to pick on the most that was not family, it would probably be Larry. They look for him when we go into Stacy's, they growl at him, point their fingers, and tell him they have had "enough of this

nonsense," hide their lollipops from him, and eagerly wait for him to come and try to steal something off their plates so they can give him a piece of their little minds.

This past Sunday, I had an extra banana cake, I asked the girls who they wanted to give it to; they said Larry. They were going to make a deal with him, if he got the banana cake, he could not steal their lollipops any more. They were so excited for their master plan. They woke up from their nap, we all met at Stacy's and Larry was nowhere to be found. My brother tracked down his phone number and Larry said he would be right there. The girls ate lunch and asked every couple of minutes, "Where is Larry?"

When he showed up, their little eyes lit up, they were ready to negotiate. Mika stood up on her chair, one hand on the hip, other finger pointing and head bobbing, she laid out the deal. Larry tempted her with another plan, he had M&M's behind his back, two bags for each girl. He would trade the M&M's for the banana cake and then still get to steal their lollipops. Mika and Chloe were not about to fall for that, but they were happy to take the tasty treat, and each had one bag devoured in no time. As we headed to the front to pay and for the girls to get their lollipops, Larry met them up there. He snatched Mika's lollipop out of her hand. She giggled and screeched and threatened him as fiercely as a four-year-old can and got her lollipop back.

Kramers might always be known for farming, but to Mika and Chloe, they are known for Larry and neither one of them would have it any other way.

Michele grew up in Junction City and graduated from Kansas State University. She worked in the restaurant management field for six years before deciding to switch careers and now works as an office manager for a company that manufactures oilfield products. Her passion for blogging and food can be followed on Instagram: [boobsbrainsandbaking](https://www.instagram.com/boobsbrainsandbaking).

If you would like to contact Michele with comments please email mcarlyon88@gmail.com

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 By Joanie Nikkel

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K-State Food Scientist Shares Tips For Freezing Food Safely To Enjoy This Winter

MANHATTAN – With a little planning, the garden goodies harvested this summer can be enjoyed well into the winter.

Kansas State University food scientist Karen Blakeslee said most fresh garden produce – green beans, corn, tomatoes, berries and more – can be easily frozen to be enjoyed later.

“Freezing food is an easy, inexpensive method to preserve food; it takes minimal investment in equipment and time,” she said.

Blakeslee notes that from a food safety perspective, freezing food is a safe preservation method. Most produce can be frozen for 8-12 months for best quality. “Always label and date packages of food so you know how long they have been in the freezer,” she said.

Blakeslee and her colleagues at Kansas State University have published a guide, titled *Safe Food Storage: The Refrigerator and the Freezer*, with recommendations on how long common foods can be

stored and still maintain safety and quality.

She noted that how food is packaged will affect the quality of frozen goodies.

“There are many types of plastic containers, but not all of them are suitable for freezing food,” she said. “Look for containers that are designated for the freezer. For meat, freezer paper is a good choice because it has a waxy layer on the inside to protect the meat. Reusing cheese or butter containers may be frugal, but those types of plastic containers can crack easily when frozen.”

Another good piece of advice: Don't cram the freezer with food. “Freeze food in batches so that the freezer does not get overloaded,” Blakeslee said. “If the freezer is overloaded with warm food, it can take longer for food to freeze. Space out the packages so that cold air circulates around them.”

Blakeslee also recommends purchasing a refrigerator/freezer thermometer to monitor temperatures. A refrigerator should be held between

34-40 degrees Fahrenheit and a freezer should be below 0 F. “And regularly clean the appliance to reduce food odors and clean up damaged packages,” Blakeslee said.

Blakeslee is the coordinator of the Rapid Response Center for food science at Kansas State University. In that role, she publishes a monthly newsletter called You Asked It! that provides nu-

merous tips on being safe and healthy.

Links used in this story: Safe Food Storage: The Refrigerator and the Freezer, <https://bookstore.ksre.ksu.edu/pubs/MF3130.pdf>

Rapid Response Center for food science, <https://www.rrc.k-state.edu>

You Asked It! monthly newsletter, <https://www.rrc.k-state.edu/newsletter>

What Is Freezer Burn?

Kansas State University food scientist Karen Blakeslee said care should be taken to prevent freezer burn when storing food.

Freezer burn is characterized by dry, grayish/brown spots on the food's surface. While not harmful, it's not very appetizing; the condition is most notable on frozen meats.

“Freezer burn happens when food is not adequately wrapped to remove oxygen, which has a bleaching effect on the food surface,” Blakeslee said. “It results in poor texture, color, flavor and aroma.”

To prevent freezer burn, package food tightly in packaging designed for freezing. Remove as much air as possible and maintain a temperature of 0 degrees Fahrenheit or lower to freeze food quickly.

“If using freezer containers, crumple a piece of wax paper on top of the food to help minimize headspace,” Blakeslee said. “This helps prevent freezer burn, ice crystal formation, and keeps food pieces from drying out.”



Taking A Look Back: Hillbilly Pie

By Ashleigh Krispense

The very first column I wrote for the Grass & Grain included a simple recipe, straight from Great-Grandma's red and white recipe box. I had found the little scrap of paper with the words “Hillbilly Pie” written across the top. It was a recipe that was simple to make, required few ingredients (which is always a plus!), and was from at least three generations ago. As intriguing as it sounded, I gave it a try! The first time I made it was right there in Grandma's kitchen on the farm. It ended up being a delicious little dessert with playful canyons running through it. The cherry pie filling gave it a nice little tang and the sprinkle of cinnamon sugar over the top helped sweeten it.

- 1 cup flour
- 1 cup sugar
- 1 tablespoon baking powder
- 1 cup milk
- 1 (21-ounce) can cherry pie filling
- 1/2 cup (1 stick) butter
- Topping:
 - 2 tablespoons sugar
 - 1 teaspoon cinnamon
 - 1 tablespoon flour

Preheat oven to 350 degrees. Melt butter in a 9-by-13-inch pan.



In a large bowl combine the first four ingredients and pour into the pan over the butter. Don't stir!



Spoon the pie filling on evenly. In a small bowl mix together the sugar, cinnamon and flour for the topping and sprinkle over the pie filling.



Bake for 30-40 minutes or until a light golden brown. Cool 5-10 minutes before serving and top with a big ol' dollop of vanilla ice cream. Enjoy!

Ashleigh is a freelance writer and the gal behind the website, *Prairie Gal Cookin'* (www.prairiegalcookin.com), where she shares step-by-step recipes and stories from the farm in Kansas.

Harvesting Fruits And Vegetables In Kansas Can Be Tricky

By Cindy Williams, Meadowlark Extension District Agent

Sometimes, harvesting fruit and vegetables in Kansas can be a waiting game. Gardeners often need to be patient and look for key indicators to know when some of the more popular fruits and vegetables are ready to be harvested, according to Kansas State University horticulture expert Ward Upham.

Knowing when to harvest crops is a key to enjoying them later, said Upham, who shared some thoughts on what to look for.

Apples

Upham said apples mature over a long period of time depending on the variety. “Some varieties, such as Lodi, can mature in July, while others mature as late as October or even November,” he said.

Some tips for knowing when to pick apples include:

* Days from bloom. For some common varieties, the number of days after the tree blooms to when the apples should be ready include: Jonathan-135; Delicious-145; Golden Delicious-145; and Winsap-155. Weather conditions may influence those guidelines.

* Flesh color. As apples mature and starches change to sugars, the flesh changes from very light green to white. Cut a thick slice and hold it to light to determine if the flesh is white.

* Seed color. The seeds of most apples change from light green to brown as the fruit ripens. This indicator should be combined with other changes.

* Color change. As apples mature, the skin color in the areas of the stem and the bottom of the apple turns from immature green to a light-yellow color. Some apples turn red over the majority of the fruit before they are ripe, so this is not a reliable indication of maturity.

* Flavor. Sample a few slices and decide if they have a sweet flavor. If they are not ready to harvest, they will taste starchy or immature. If apples have fallen before they are ripe, store them for a period to see if they become sweeter.

Pears

Most pear cultivars should not be allowed to ripen on the tree, but rather picked while still firm and ripened after harvest. Upham said pears ripen from the inside out. “Waiting until the outside is completely ripe will often result in the interior of the fruit being mush and brown,” he said.

Home gardeners can look for these cues to determine when pears are ready to be picked:

* Color. The fruit's background color - known as its 'ground' color - changes from dark green to light or yellowish green when ripe.

* Attachment to the tree.

The fruit should part easily from the branch when it is lifted and twisted.

* Corking over the lenticels. These are the fruit's breathing pores. Initially, they are white to greenish white, but turn brown as the fruit nears maturity. Lenticels look like brown specks on the fruit when it is ripe.

* Smell and taste. When pears are ripe, you should be able to smell the characteristic aroma.

Squash

Upham said summer squash is harvested while immature, but winter squash (including acorn, hubbard and butternut) is harvested in the mature stage when the rind is tough and seeds have developed.

“We normally think September is the time that winter squash is harvested, but harvesting too early leads to fruit that shrivels and rots,” Upham said.

He notes that color and rind toughness are the two

most important characteristics indicating when winter squash is ready.

He notes that color and rind toughness are the two most important characteristics indicating when winter squash is ready.

“Winter squash changes color as it becomes mature,” said Upham, noting that butternut changes from light beige to tan; acorn starts deep green but forms a ground spot that is orange when ripe; and hubbard is gray or orange when mature. Winter squash should also have a hard, tough rind, Upham said. “This is easily checked by trying to puncture the rind with your thumbnail or fingernail. If it easily penetrates the skin, the squash is not yet mature and will lose water through the skin, causing the fruit to dry and shrivel.”

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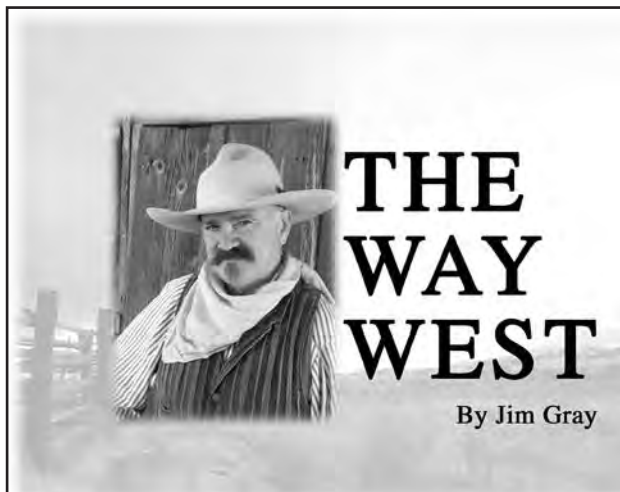
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Living Another Day

James O. Pattie published the book, *The Personal Narrative of James O. Pattie, Of Kentucky*, in 1833. The narrative was an account of his travels across the plains in 1825 with his father, Sylvester.

On the way to the Platte River the traders visited what was known as the Pawnee Republican tribe. At the lodge of the chief, he and other leading men formed a circle. Lighting a pipe the chief inhaled, puffing the smoke toward the visitors' chests and on his own, followed by an upward puff toward the Great Spirit. The chief explained that the ceremony "would bestow upon us plenty of fat buffaloes, and all necessary aid on our

way."

The chief gave the traders a stick painted with curious characters. The traders were cautioned to give the stick to any Pawnee warriors that they encountered, "in which case they would treat us kindly." The pipe was then passed around, each trader giving it a light puff or two. They then feasted on fat buffalo. The "hospitable old chief" willingly gave them council in regard to their future course and provided a man of the village to guide them to the big trader's camp they hoped to join.

Pratte, Choteau, and Company was no small affair with over three hundred pack horses

and mules tended by one hundred sixteen men. The morning of August 6, 1825, a great dust cloud marked the line of march as the company, including the Patties, set out along the Platte River toward the village of the Pawnee Loups. The traders remained with the Loups five days feasting and trading. Mr. Pratte bought six hundred buffalo skins and several horses.

A war party victoriously returned to the Loup village with four enemy scalps and a child captive. One of the prized scalps was that of the child's mother. For three days they danced and celebrated before turning their attention to the child. He was taken to the medicine lodge in preparation for a sacrificial ceremony. When Sylvester Pattie, James Pattie's father, discovered that the boy was to be burned alive Sylvester tried to buy the captive from the chief. The offer was initially refused but when a bolt of red cloth was produced the negotiations resumed.

In the meantime, Pattie asked to see the child and managed to get him to his own camp. The chief, being very annoyed and astonished, asked, "Do you think you can keep the child by force?" Pattie replied that every man

in the company was prepared to die for the child. The bolt of cloth supplemented with a "paper" of scarlet pigment was then accepted. The child, having barely tasted food for four days, seemed more dead than alive, but food and gentle care revived him enough to allow travel when the caravan turned south toward New Mexico on August 11, 1825.

Danger could arise at any time. Late in the day on the 11th, mounted horsemen approached at full speed. By signs a meeting was arranged. When the painted stick given to them by the Pawnee Republican chief was shown they were satisfied that the traders were friends. Even if they had shown the stick to Arikaree Indians seen at a distance on the 20th it would have meant nothing. The Arikaree showered their camp with arrows in the middle of the rainy night of August 21st. One man was wounded. The Arikaree were satisfied enough to turn their attention to buffalo hunting.

At the Republican River near the present-day Nebraska and Kansas state line they found two dead white men. Further search led them to the bodies of five dead Indians. Tracks led them to the camp of a Crow raid-

ing party of "twenty fires." Revenging the deaths of the white men the traders staged an early morning attack. Ten warriors were taken captive among thirty lying dead on the field of battle. After warning the prisoners against killing their "white brothers" they were released.

Five days travel brought the trading party to the Solomon River. An Indian camp was a short distance away. At the sight of the little boy that had been rescued from the Pawnees on the Platte River, one of the Indians screamed and pressed into his arms. Kissing the boy and crying at the same time, he fell on his knees and explained "through his signs," that he was the boy's father. He had taken two Pawnee scalps for the loss of his wife and child,

The next morning, as the morning star became visible, the traders were performing a ceremony. After lying face-down for quite some time each one rose to sit around the central fire. A pipe was taken up with each man blowing a puff of smoke toward the rising sun, and another toward heaven. The chief explained that they were thanking the Great Spirit for allowing them to see another day. On this day so long ago, the hand of the Great Spirit must surely have been felt by one and all 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.

Fall armyworms present in brome

By David G. Hallauer, District Extension Agent, Crops & Soils/Horticulture

Armyworm damage has reared its ugly head yet again this fall. The hatch likely occurred three to four weeks ago, as many stands have worms an inch long or greater. At this growth stage, their feeding is heavy and damage is characterized first by windowpanes in plant leaves, and then removal of leaves altogether, often leaving little more than stubble in their path as the move across fields.

Fortunately, larvae an inch or greater in length are reaching the end of their feeding cycle. Unfortunately, vigilance is still needed. There is the potential for at least one more generation this fall. In areas where forage regrowth has been slowed - by grazing/harvest/armyworm feeding/etc... noticeable damage may again occur. If damage is heavy and larvae are still small, control options may deserve consideration. If stands are in good shape and good growing conditions persist, stands may well recover without additional attention.

For more information about armyworms in brome, including stand damage remediation, check out the armyworm flyer on our District Crops & Soils page at: <https://www.meadowlark.k-state.edu/docs/crops-soils/Armyworms%20in%20Brome%20grass%202021.pdf>.



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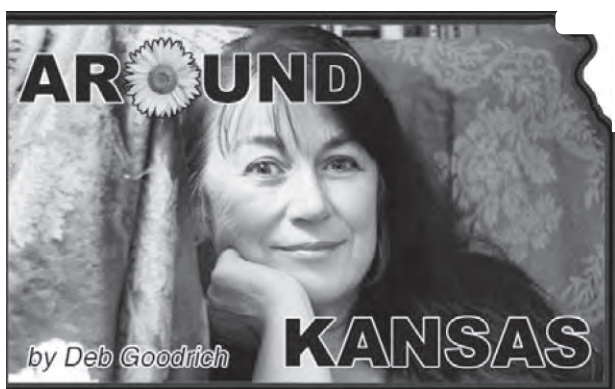
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News from the Santa Fe Trail:

Council Grove is the place to be.

Thus far, we have celebrated music with Michael Martin Murphey's concert in the new amphitheater on the Neosho River Walk and the Symphony in the Flint Hills on a ranch south of town. We have poked fun at Wild West stereotypes with the Gunfight on the Santa Fe Trail where we cheered in the streets as the Cavalry rode to the town's rescue and thwarted would-be bank robbers. There was even

more music with the Diamond W Wranglers and Three Trails West. We have enjoyed a glass of wine with friends on the veranda of the Cottage House and stuffed ourselves at the Hays House, the Saddle Rock Cafe, BG's Bar and Grill, the Flint Hills Saloon and Eatery, Trail Days Cafe, El Rancho Viejo, and every other food-vending establishment. We have shopped for antiques, flowers, books, and groceries. We have strolled the streets and the River Walk and enjoyed the boundless hos-

pitality of the townsfolk in one of the state's most picturesque small towns.

And we are doing it again, on the last weekend in August and then on September 17 and 18.

On Friday evening, August 27, there will be a reception on the grounds of the Kaw Mission State Historic Site to welcome members of the Mormon Battalion and descendants of the men who served in that fascinating unit from the Mexican War. May sound nerdy, but it will be interesting. It always brings the stories to life to meet the descendants, a connection that makes these historic figures real people.

The following day is filled with speakers and various army encampments. Beginning at 9 a.m., presentations will include local historian and legendary character, Ken McClintock, sharing trivia on the Trail. Just try to stump him!

Other presenters in-

clude Kevin Henson, president of the Mormon Battalion Association, Laura Anderson (speaking on women who accompanied the Mormon Battalion), Jay Clark (presenting on Buffalo Soldiers), Jim Crosby (Council Grove's Company C of the 137th Inf. Rgmt.), Bill McFarland (speaking on the 8th Kansas Vol. Inf. about which he has authored an excellent book), and Herschel Stroud (presenting on the military and medicine).

There is nothing better than combining education and fun, and this weekend will be filled with both. The team from Council Grove has worked so hard to organize all these events and the townsfolk have pulled out all the stops to welcome visitors. Kudos to them all!

Let you think Council Grovians will be putting their collective feet up after the Military on the Santa Fe Trail Event, nay, they will just be gearing up for Rendezvous in

Council Grove, September 17 and 18.

Everyone will be there! From the Mountain Man Encampment, to the Antique Wagon Show, to the Voices of the Wind People, any one of these events is enough to fill a weekend, or a week, but they will all come together to create a true rendezvous experience.

The Mountain Man camps are always fascinating. The colorful costumes, the unique foods, the over-the-top personalities of people who revel in sharing those historic times – all combine to create an experience the kids will never forget.

The Antique Wagon Show will bring in the experts on the history of wagons. Imagine one of the coolest car shows you have ever attended and substitute wagons. It is incredible.

The Voices of the Wind People Pageant brings members of the Kaw Nation back to their home-

land and recounts the increasing traffic on the Santa Fe Trail and the birth of the town of Council Grove, all the while pushing the Kaws off their land. It is beautiful and tragic, and another experience not soon to be forgotten.

Visit SantaFeTrail200.com to keep up with all Council Grove is hosting, and when you visit, be sure to thank them for all the hard work it took to make these events happen.

The Santa Fe Trail does indeed live on, especially in Council Grove. Deb Goodrich is the co-host, with Michelle Martin, of the Around Kansas TV show and the Garvey Texas Historian in Residence at the Fort Wallace Museum. She chairs the Santa Fe Trail 200 and is Contributing Editor at Ad Astra Eating, a brand new publication about real food in the Sunflower State. Contact her at author.debgoodrich@gmail.com.

Kansas Grain and Feed Association holds 125th annual meeting, selects Brent Emch as chairman

During its 125th annual meeting August 9-10, Kansas Grain and Feed Association's (KGFA) 16-member board of directors formally selected Brent Emch of Cargill Incorporated to serve as the association's 91st chairman since its founding in 1896. Emch's two-year term begins immediately and will be in effect through April 2023.

"It is a privilege and honor to be selected by the KGFA Board of Directors and membership to be the next chairman of this accomplished association," Emch said. "The Kansas Grain and Feed Association is one of the most successful Grain and Feed Associations across this great county and I'm excited to continue to lead it to even greater heights and accomplishments. The continued success comes from the value it creates for the member-owners and I intend to ensure that the staff

continues to deliver for its members."

Native to Kansas, Emch grew up working at a private grain elevator, feed and crop input retail business in Madison. He is a 1994 graduate of Kansas State University and has spent his entire 27-year career with Cargill Incorporated, spanning five states in the Midwest. Emch is currently based in the organization's regional office in Olathe, Kansas where he has overseen various regional merchandising teams for grain and soy processing in the Western United States.

KGFA members also selected Mark Paul (Cloud County Cooperative, Concordia) as vice chairman, Andrew Fullerton (Bartlett Grain, Kansas City) as second vice chairman and Blake Connelly (Alliance Ag and Grain LLC, Spearville), T.J. Mandl (The Scoular Company,

Pratt) and Matt Overturf (Skyland Grain LLC, Johnson City) as new board members.

During its 125th annual gathering, nearly 200 KGFA members enjoyed networking and educational activities. Members heard a keynote address from current Kansas attorney general and 2022 gubernatorial candidate Derek Schmidt. Economist Dr. Matt Roberts provided an update on the outlook of the agricultural economy prior to the group dispersing for a golf tournament at Topeka Country Club.

New MU guide looks at silage breakeven price

University of Missouri Extension recently released an updated cost analyzer to help farmers estimate the break-even price to justify harvesting corn as silage rather than grain.

"Frequently, corn harvested for silage was planted for harvest as a grain crop," says Joe Horner, an MU Extension agricultural business and policy specialist. Reasons for this change can include feed needs as well as drought and other events that result in poor grain yield.

Horner and MU Extension economist Ray Massey created the guide to help producers take the guesswork out of the decision to harvest corn as a grain or silage. Silage is the harvest of whole corn plants at 60-70% whole plant moisture.

The guide gives options for pricing silage in the field, delivered to storage and delivered to the feed bunk.

Nutrient considerations
Silage and other forage crops remove more nutrients—especially phosphorus and potassium—from the soil than grain crops. If the soil becomes low on nutrients, the producer incurs extra expense to replace them.

Planting corn for silage to deliberately remove nutrients also is an option in intensive manure-spreading areas and where the potential for nutrient runoff exists.

General rules of thumb
Generally, the rule of thumb farmers use is that silage's value per ton is eight to ten times the price of a bushel of corn. Massey says a factor of eight to nine is used to price silage in the field and a factor of nine to ten for pricing it in storage.

A higher factor is generally used for lower-priced corn and a lower factor for higher-priced corn. "This rule of thumb needs to be reconsidered given current corn and input prices," says Massey. "Currently, silage priced in the field may be closer to seven times the price of a bushel of corn."

Another consideration is the dry matter percentage of silage. Most often, price is determined on wet basis—as it stands in the field.

Other considerations
Producers should also consider costs of harvest,

shrink, drying, transport and storage. Livestock producers should weigh costs against the cost of other feedstuffs.

Silage harvest requires specialized equipment,

including a chopper and wagons.

Also, consider the removal of biomass for silage. The standing crop's value increases because only the grain is removed

rather than the entire plant.

See "Pricing Corn Silage" and the silage cost analyzer spreadsheet at extension.missouri.edu/g4591.



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Weed electrocution research sparks interest as herbicide resistance impedes current methods

Move over, herbicides. There's a new sheriff in town. And he's toting some powerful guns loaded with electricity to kill weeds.

This shocking new method of weed control was demonstrated at the 2021 Pest Management Field Day at the University of Missouri Bradford Research Center in Columbia.

As more weeds develop resistance to herbicides, electrocution may be the weed management approach of the future, says MU Extension weed scientist Kevin Bradley. MU graduate student Haylee Schreier has studied weed electrocution in row crops for the past two years under Bradley's direction.

This is of special interest to Bradley because it might be the answer to Missouri's growing waterhemp problem. A prolific producer of seeds, waterhemp is Missouri's No. 1 weed problem and one of 14 weeds that are herbicide-resistant.

Two brothers in Illi-



nois with backgrounds in farming and engineering designed the Weed Zapper machine. A different pair of brothers purchased the technology and manufacture Weed Zappers at a plant in Sedalia, Missouri.

The Weed Zapper model used in MU research has a copper boom that attaches to the front of

a tractor. Driven by a PTO, it hits weeds with 15,000 volts of electricity from a 110,000-watt generator on the back of the tractor.

Models cost between \$42,000 and \$72,000.

Metal wheels are grounded, and booms adjust to different heights.

Tractor speed is about two to four miles per hour, Bradley says. Weed kill is best at lower speeds and is even more effective on some of the more challenging weeds when used at seven-day intervals in late summer.

Schreier's data shows that by the end of the season there is almost complete control of giant ragweed, common ragweed, marehail and waterhemp. It is slightly less effective on grasses.

The growth stage of soybean and the degree of contact that the boom makes with the foliage influences soybean injury. Soybean yield loss is possible if the boom makes constant contact with the soybean canopy at growth stages R3 or later.

In addition to killing

weeds, electrocution also affects viability of surviving weed seeds. The most impact is seen in waterhemp, where about 65% of seeds become nonviable.

Electrocution is not new to the weed management world, says Bradley. Sugar beet growers in North and South Dakota have been trying this method since the 1950s and 1960s.

The United Soybean Board, Missouri Soybean Merchandising Council and the Weed Zapper company are partners in this project.

Learn more about MU weed science research at weeds.cscience.missouri.edu, [weeds.cscience.missouri.edu](https://www.facebook.com/ShowMeWeeds) on Facebook or @ShowMeWeeds on Twitter.

Learn more about Weed Zappers at www.TheWeedZapper.com.

USDA accepting applications to help cover costs for organic certification

Organic producers and handlers can now apply for U.S. Department of Agriculture (USDA) funds to assist with the cost of receiving or maintaining organic certification. Applications for the Organic Certification Cost Share Program (OCCSP) are due Nov. 1, 2021.

"USDA is here to help all producers, including those who grow our nation's organic food and fiber. Many farmers have told us that cost was a barrier to their ability to get an organic certification," said Zach Ducheneaux, administrator of USDA's Farm Service Agency (FSA). "By assisting with the costs, this program can help organic farmers get their certification along with the benefits that come with it."

OCCSP provides cost-share assistance to producers

and handlers of agricultural products for the costs of obtaining or maintaining organic certification under the USDA's National Organic Program. Eligible producers include any certified producers or handlers who have paid organic certification fees to a USDA-accredited certifying agent during the 2021 and any subsequent program year. Producers can be reimbursed for expenses made between Oct. 1, 2020 and Sept. 30, 2021 including application fees, inspection costs, fees related to equivalency agreement and arrangement requirements, travel expenses for inspectors, user fees, sales assessments and postage.

For 2021, OCCSP will reimburse 50% of a certified operation's allowable certification costs, up to a maximum of \$500 for each of the following categories (or "scopes"):

- crops
- wild crops
- livestock
- processing/handling
- State organic program fees.

Organic farmers and ranchers may apply through an FSA county office or a participating state agency.

This funding will be complemented by an additional \$20 million for organic and transitioning producers through the Pandemic Assistance for Producers initiative. More information on that funding will be available in the coming weeks.



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AUCTION

SATURDAY, AUGUST 28, 2021 — 9:00 AM
Offering for sale at Public Auction, located at 3005 S. Burma Rd., SALINA, KANSAS

TRACTOR, VEHICLES, TRAILERS, SHOP & HOUSEHOLD ITEMS

2000 JD 4700 FWA diesel tractor, JD 460 loader, 3 pt., pto, hyd., 879 hrs., shedded & like new; 2004 Buick LeSabre Limited 4 door car, 59K, clean; 1988 GMC Sierra 2500 3/4 ton 4x4 pickup with topper, 53K; 2004 Travalong Spirit 2 horse slant trailer, dressing room, bumper hitch, like new; 1988 Home triple axle car trailer, ramps; 2015 Polaris Ranger XP side-by-side, 4x4, dump bed, lights, power windows, 862 hrs., 2986 miles, extra clean; JD 8250 8-16 grain drill; JD 336 wire tie sq. baler; JD #33 pto manure spreader; JD 450 sickle mower; 3 pt. log splitter; JD 3 pt. post hole digger; JD 45 3 pt. blade; JD 6' rotary mower; Krause 10' disc; 3 pt. pto 5' rototiller; bale elev.; Ferguson 2 btm. 3 pt. plow; Alum. boat; 3 pt. 3 sec. springtooth; shop tables; Lincoln 225 welder; air compressor; Fisher anvil; 2 - Stihl chainsaws; pull behind sprayer & fert. spreader; JD lawn sweep; ladders; bench grinder; drill press; rubber mats; table saw; toolboxes; wrenches; saddles & tack; hand tools; bicycles; shovels & rakes; BBQ grill; water tanks; hardware; BB gun; elec. drills; enamelware; lamps; sofa; wooden chairs; queen sz. bed; Copper artwork; stoneware; glassware; Kitchen Aid washer & dryer; weather radio; phones; end tables; wooden boxes; luggage; owl collection; china sets; sweepers; patio furniture; decorations; sewing supplies; Cedar chest; records; dining room table; pitcher pump; fire place set; puzzles & games; pool sticks & balls; caps; western boots; clothing; trunk; books; & more.

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AUCTION REMINDER

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Field day features innovative technologies and research

The Flickner Innovation Farm will host a field day event on Tuesday, August 31, highlighting current work by local producers, industry members and Kansas State University researchers to conserve water use while improving water quality and soil health.

The in-person event will take place at the Flickner family farm in Moundridge and will feature experts speaking on a variety of sub-

jects, including the use of various irrigation technologies as well as soil health and carbon studies. Those who attend the field day will have opportunities to ask questions and get advice about how they can apply these techniques in their own operations.

"We are focused on ensuring that natural resources here are utilized in a way that makes the farm not only profitable but also improves

the land, air and water for future generations," said Ray Flickner, who is the fifth generation in his family to farm the property in Moundridge. "The Innovation Farm is just an extension of that belief."

The program begins at 8 a.m. and ends at 1:30 p.m. The event is free and lunch will be provided. This year's field day is part of the Kansas Corn Association's Summer Listening Tour.

More information about registration is available online at www.kscorn.com or from the Kansas Center for Agricultural Resources and the Environment.

Some of the topics and demonstrations planned during the field day include:

Participants will have the opportunity to see demonstrations from an interseeder, a machine designed to plant cover crops and apply herbi-

cides and fertilizer.

K-State faculty members will discuss ongoing research projects focused on soil health and water quality.

Organizers will demonstrate the automated drone system at the farm, which captures high-resolution imagery of fields to help farmers identify various crop conditions. Field day participants will be able to watch the drone in flight and learn how

the Innovation Farm is using this new type of imagery in day-to-day decision-making.

The Innovation Farm is a partnership between Flickner, K-State agronomists, watershed specialists and industry leaders. Together, they are conducting studies in a large-farm setting to identify the most efficient technologies and techniques for Kansas producers to use on their own farms.

USDA NASS to collect 2021 small grain production and stocks data

During the first two weeks of September, growers of small grains around the country will be contacted by the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS). The agency is taking a comprehensive look into the 2021 production and supply of small grains, which include wheat, oats, barley, and rye.

"The small grains industry is important to Kansas agriculture and it is crucial for everyone to have accurate data about this key sector of the economy," said NASS' Kansas state statistician Doug Bounds. "We will con-

tact more than 2,500 producers in Kansas to accurately measure 2021 acreage, yield, and production for small grains and the quantities of grains and oilseeds stored on farm."

"Responses to the survey will also be used in calculating county yields," explained Bounds. "USDA uses county yield information from the survey to evaluate and administer vital farm disaster mitigation. Farmers who receive this survey should use this opportunity to assure their county is accurately represented in the calculation

of Kansas county yield estimates."

NASS safeguards the privacy of all respondents and publishes only aggregate data, ensuring that no individual operation or producer can be identified. Survey results will be published in several reports, including the annual Small Grains Summary and the quarterly Grain Stocks report, both to be released on September 30. These and all NASS reports are available online at www.nass.usda.gov. For more information call the NASS Kansas Field Office at 800-582-6443.

Sorghum Foundation announces 2021-2022 scholarship winners

The National Sorghum Foundation awarded scholarships to three students for the 2021-2022 school year, totaling \$4,500. The winners are Kansas State University student Max Harman and Texas A&M University students Alexis Ghormley and John McCurdy.

The Bill Kubecka 2021 Memorial Scholarship was awarded to Alexis Ghormley. Alexis, who is from Madisonville, Texas, is a senior, agricultural economics major. Following graduation, Ghormley plans to attend law school and has interest in serving agriculture producers

through private property and water rights issues to mitigate risk.

The 2021 Bruce Maunder Memorial Scholarship was awarded to Max Harman, from Inman. Harman is a senior double majoring in biochemistry and global food systems leadership. Upon graduation, Harman

plans to pursue a Ph.D. in genetics or molecular biology with a long-term goal to improve food and food systems using novel gene editing technologies to benefit both producers and consumers.

John McCurdy is the recipient of the 2021 Darrell Rosenow Memorial Schol-

arship. McCurdy, from Rhome, Texas, is a junior, agronomy major at Texas A&M University. McCurdy plans to pursue a graduate degree in agronomy and eventually work in crop breeding and improvement.

Each scholarship provides students with \$1,500

to assist with education expenses. The Bill Kubecka Memorial Scholarship winner, Ghormley, will also have the opportunity to attend National Sorghum Producers annual D.C. Fly-In in 2022 to learn about policies and regulations impacting the U.S. sorghum industry.

Targeted cattle grazing quickly contains wildfires in the Great Basin

Using cattle grazing to create firebreaks on landscapes invaded by cheatgrass has successfully contained three rangeland wildfires in four years in the Great Basin — the latest being the Welch wildfire near Elko, Nevada, on July 18.

U.S. Department of Agriculture Agricultural Research Service (ARS) researchers are conducting a large study evaluating the technique, called targeted cattle grazing, for creating fuel breaks to help contain wildfire while not causing grazing-related damage to rangeland health.

Targeted grazing uses cattle in the early spring to eat extensive strips of highly flammable cheatgrass down to two- to three-inch stubble in strategic places. This reduces the fuel load that can otherwise turn small rangeland fires into megafires in a matter of hours.

"These fuel breaks are intended to slow a fire's rate of spread, make it less intense, and provide time and space for firefighters to arrive and more safely attack and contain the fire," explained ARS rangeland scientist Pat Clark with the Northwest Watershed Research Center in Boise, Idaho, who directs the project. "That's just

what appears to have happened for the Welch fire."

Before it reached the targeted grazing fuel break, the Welch fire "generally had two- to four-foot high flames and was spreading at a rate of about 20 chains/hour (one chain=66 feet)," according to the fire report. After burning into the fuel break, flames dropped to less than two feet high and the fire's spread slowed to less than 5 chains/hr, which allowed time for resources to arrive and engage the fire. If the fuel break had not been there and windier conditions had occurred, this wildfire

could have escaped and burned several thousand to tens of thousands of acres within the South Tuscarora Range, the report said.

The ARS study is evaluating targeted grazing at nine sites throughout the northern Great Basin in Idaho, Oregon and Nevada. Although the cheatgrass-dominated landscapes at all these sites are at high risk of fire, the Nevada fuel breaks have actually been directly tested by wildfires.

Near Beowawe, Nevada, in August 2020, a cattle-grazed fire break helped limit a range fire to just 54 acres compared

to fires that more commonly race across thousands of acres of the Great Basin each summer. In July 2018, the same targeted grazing fuel break held the Boulder Creek fire to just 1,029 acres and kept the fire out of sage-grouse habitat just downwind.

Clark's research is tracking how much fuel is reduced by targeted grazing in the spring when the cheatgrass is most palatable to cattle, whether these fuel reduc-

tions can be maintained through the start of the wildfire season, typically July 1 in the Great Basin, and what effects targeted grazing might have on environmental health such as changes in plant diversity.

Cheatgrass (*Bromus tectorum*) is an invasive cool weather annual grass that originated in Europe, southwestern Asia and northern Africa, which came to this country in the late 1800s, probably in shipments of

European wheat. Today, it dominates more than 100 million acres of the Great Basin in the western U.S.

Germinating each fall and winter, cheatgrass grows furiously in spring and dies in early summer, leaving the range carpeted in golden dry tinder, easily sparked into flames. The Great Basin typically has the nation's highest wildfire risk and most years rangeland fires outpace forest fires in acreage destroyed.

AUCTION

TUESDAY, AUGUST 31, 2021 — 5:00 PM

Offering for sale at Public Auction, located at 6908 SW 72nd, SEDGWICK, KS. From Sedgwick: 3 miles north & 3/4 mile west.

FURNITURE, APPLIANCES & HOUSEHOLD ITEMS

Oak roll top desk; sm. Oak secretary; 2 wash stands; parlor table; sofas; wooden & covered chairs; 5 pc. bedroom set with canopy bed; Cedar chest; camel back trunk; single beds; cradles; chest-of-drawers; lg. wooden cabinet; office chair; round Oak table & leaves; old wall telephones; china hutches; pump organ; spinning wheel; organ stools; bentwood chairs; Kenmore 15 cu. ft. upright freezer; Maytag washer; Roper dryer; Whirlpool refrigerator; glass top range; cast iron skillets; cast iron train car; enamelware; sm. table top; old skis; Reno 49 25-cent slot machine; lantern; camping stove; baking dishes; utensils; oil lamps; lg. bell collection; records; vases; Copper & Brass items; 2 - Ford Mo. T. mo. 110 tail lights; malt machine; old tail lights; games & toys; sewing supplies; salt & peppers; Cabbage Patch doll; lamps; parking meter; old telephones; light houses; sleigh bells; scales; scroll saw; & more.

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FARM MACHINERY AUCTION

THURSDAY, SEPTEMBER 9, 2021 — 10:00 AM

Auction will be held at the farm located 1/2 Mile North of RICE, KANSAS (Highway 9 & 200th Road) East of CONCORDIA, KANSAS

TRACTORS, COMBINES

flat bed w/bale fork; 1988 Ford F250 pickup automatic, 4WD, 460 engine; 1977 Chevrolet C60 gas truck, 8 cy, 4-2 spd, PS, 15' bed w/metal box, 33,000 miles; 1976 Chevrolet C60 gas truck, 8 cy, 4-2 spd, PS, 18'; 1960 GMC 4000 truck, V6 engine, 4-2 spd, 16' bed; 1998 Titan 22' gooseneck covered stock trailer center gate, good floor; WW 6'x16' stock trailer; 8'x16' flatbed trailer; 16' tandem axle car trailer; 4 wheel trailer w/wood Triump book; 1985 Chrysler 5th Avenue 4 door car, auto, 8 cy; 1974 Olds Cutlass Supreme 2 door car; 1985 Chev. Monte Carlo.

TRUCKS, TRAILERS & CARS

2012 Ford F250 Lariat 4 door pickup auto, gas, all electric, leather seats, 35,000 miles; 1998 Ford F250 4WD pickup auto, 406 engine, w/Winkel

disc 18'; Sunflower 14' off-set disc; DaKon 231 gravity wagon on New Holland chassis; MW 300 gravity wagon; Big Ox 7 shank chisel; John Deere 3 pt. 8' blade, hyd tilt; JD 707 Gyramar 14' shredder; JD pull type 10' speed mover; JD 24' field cultivator; JD 20' field cultivator; JD 835 disc drill w/fertilizer 20-8; 5-knife anh applicator; Kent 28' springtooth; 2 Lilliston 3pt. 6 row cultivator; 6 row 3 pt. ditcher; dozer for 4020; Grain O Vator series 55 feed wagon; 62' 8" PTO auger; 32' 8" auger w/electric motor; 2 wheel pickup trailer; MM 4 cy gas engine on wheels; JDZ 445 zero turn riding mower; 1000 & 500 gal. fuel barrel; 1000 bu. bulk bin; Forney welder; grain spreader; 1 trailer hand tools.

MACHINERY

UFT 400 bu grain cart; Sunflower C Flex 16' double offset disc; John Deere 220 offset

NOTE: Check website for pictures www.thummelauction.com

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ANTIQUE AUCTION

MONDAY, SEPTEMBER 6, 2021 — 10:00 AM

Auction will be held in Kenwood Hall at the Saline Co. Expo, 900 Greeley, SALINA, KS

ANTIQUE FURNITURE, CROCKS, PRIMITIVES

18th century pine settle; 19th century tiger maple school master's desk; Carter's ink display cabinet; Diamond Dye cabinet; railroad masters desk; painted pie safe w/star tin inserts; Sherer 8 drawer seed cabinet; country store cash drawer; 6 drawer spool cabinet; ice cream table & 4 chairs; 3 tall ice cream chairs w/arm rests; short pie safe; Gold Medal Flour store broom holder; Davenport "Perfection" water filter & cooler w/2 spigots; Mission oak sideboard; oak 4 stack bookcase; post office working cabinet; coffee bin; Elgin store coffee grinder; yarn winder; saddle makers bench; large pine storage bins; Victorian mahogany corner chair; 8 Victorian parlor chairs; 4 piece parlor set; dresser; oak pattern back bed; pine hooded cradle; wall mirror; pine unusual wash stand; 3 plank saddle seat chairs; 2 pattern back chairs; bentwood chairs; large wooden ironing board; Mandeville flower box; Pall Mall display box; trunks; high post Jenny Lind bed; tall brass bed; high back organ stool; Crock's inc: 5 gal West-

ern; 5 gal Red Wing jugs; Red Wing crocks; blue band crock w/lid; Rockingham/Bennington pie plates, bowls, pitchers, salt crock, redware mold; stain glass windows; Aladdin electric lamps; several fancy kerosene lamps; double dial wall clock; Howard Miller wall clock; several kitchen clocks; Duck decoys; wooden boxes; red & green drying racks; apple picking ladder; child's painted rocking horse; 1905 Indianapolis kraut cutter; wooden dumbbell; child's bowling pins; Griswold rabbit, lamb w/box & Santa molds; muffin & cake molds; cobler's nail cup; horseshoe boot scraper; trivets; scale w/brass pan & weights; other scales; trivets; flag stand; advertising tins & bottles; baseball card collection; coins & silver certificates; mini irons & rolling pins; red painted wheel from mill; tinware; political buttons; military medals; Victorian flash cards; 3' hand-made covered wagon; assortment pictures inc: Pabst, hunting and other good pictures; Coverlet; several quilts; fancy work; child's blocks; framed & loose advertising cards; portrait photos; watering cans; suitcases; fishing

tackle; catcher's mitt; assortment child's toys, & books; costume jewelry; buttons; assortment pictures; 50 cast iron skillets & pots inc: Griswold & Wagner; copper items; dolls; assortment glass inc: custard; Fruit drink thermometer; Toys inc: Nylint Dumper in box; Barbie camper; Disney toys; sled; toy horses; Structo cattle semi; Tonka fire truck; Fisher Price toys; Pez; electric train cars; dolls; 2 banana seat bikes; large scribe; tennis rackets; cast iron cream tester; wagon seat; cast iron sprinkler made in Hutchinson; unusual Aladdin heater; Peters box; Santa suit in box; child's saddle; horse collar; tin seats; cream can; farm items; Boy Scout bag; US holster; vases; baskets; cartoon glasses; accordion; trumpet; Budweiser sign; Wanda grease can; fish reels; shot gun shells; Pepsi advertising; lanterns; Lee tins; unusual Sunkist coffee; Pyrex & Fire King; Cowboy coffee pot; 45 records; small steel wheel buckboard; assortment of other collectibles; Household inc: flat screen TV; tool cabinets; tools; lamps; ladders; electric snow blower; Honda lawn mower.

NOTE: There are many unusual early pieces. The collection was collected over 45 years ago. Several furniture pieces were purchased at Greenwillow Farm Antiques which specialized in 18th & 19th Century American country furniture. Check our website for pictures at www.thummelauction.com.

JOHN MCINTYRE ESTATE

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

2-DAY AUCTION

SATURDAY, SEPTEMBER 4 & SUNDAY, SEPTEMBER 5, 2021 10:00 AM EACH DAY

Auctions will be held in Kenwood Hall at the Saline Co. Expo, 900 Greeley in SALINA, KS

SATURDAY, SEPTEMBER 4

Toy collection inc: cast iron mechanical & still banks inc: (Accounting House; Man in Cabin; Black; Lion & Monkeys; Frog on Stump; Chief Big Moon; Jonah & Whale; temple; house; Presto; Time Safe; elephant w/howdah; camel; horse; donkey; owl; setting rabbit; safe banks); 6 Smith Miller trucks; hill climber car; large collection of 2' Tootsie toys; 40 Kansas toys; many other 2" lead toys; **cast iron** McCormick (wagon & horses, spreader, rake, threshing machine); log wagon w/horses; bull bank; double deck bus w/passengers; circus wagon; stationary engine; Hubley car; ice wagon; **many Arcade cars & trucks;** Structo Farms trucks; Structo semi; Buddy L box truck; 915 IH combines; 8000 Ford; 5 Ferdinand The Bull's; Ferdinand record; nib Busy Buddy Chickens; cap pistols; Ford promo cars; tin Toyland Dairy wagon & horse; Popeye in barrel; roll over dog; Donald Duck w/drum; Charles McCarty car; Structo 66 gas truck; IHC semi; unusual tin car w/chicken; Mng-og tin wind-up; early tin duck on wheels;

windup Siren Police Patrol car; cast iron Coast To Coast bus; car carrier semi w/cars; tin 18" airplane; Tricky Taxi w/box; candy container lantern; 1910 Cracker Jack toys; My Tiny Tool Set on card; cast iron frog; many very good rare toys; Santa Fe railroad pictures, padlocks, railroad oil cans; water cans; lanterns; red & blue; switch lantern; cross sign; calendars; railroad cart; toy train signals; **Crock's inc:** 20 gal. Birch Leaf w/oval; 5 gal Western; Red Wing Poultry Drinking Fount; Red Wing Butten Milk Feeder; lay down chicken water; chicken water unusual; Pittsburg chicken water; Pyrex 5 gal jug; 18" Red Goose shoe advertising; Bird water sprinkler; wood barrel churn; Griesedieck Brothers (pictures, cooler & beer cans); Pep Show viewers; 1949 KC Mo. taxicab driver button; lighting rods w/balls; Robin Cigar sign; Holstein cows; Holstein Friesian Ass of America 1885; barn lanterns; lantern w/shield; Meket End Trail Picture; copper buckets; buckets; CI spittoon; Dezol; cast iron weight; Fordson tool box; trike; wooden boxes; 4

wheel cart; DAV tags; 1928 Poultry Tribune magazines; Star Trek magazines; short tail horse windmill weight.

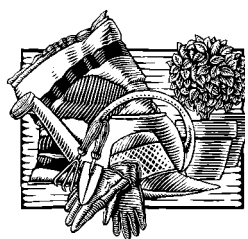
SUNDAY, SEPTEMBER 5

100+ Raggedy Ann & Andy dolls inc: 1915 Gruelle original w/candy heart in chest; Georgene 1940s; 1930s Andy; many 1940s; Camel w/ the wrinkled knees; Johnny Gruelle Raggedy Ann alpha bed book; Arthur original puppy dog; large doll collection; sleeping bag; lunch boxes; curtains; many different pieces; Grissy Steiff bear; Casper The Ghost; **100+ Halloween collection;** papier mache jack o lanterns (Devil very rare, Cat, double side pumpkin, other); large collection paper items; metal & plastic; cookie cutters; Christmas collection; 1930s Santa candy container; several Santa Claus's; bubble lights; large assortment of other Christmas items; **Easter Collection;** papier mache, tin, plastic; Valentines; Hudson Bay blanket; Books inc: Land Of Oz; Oz Man Tales; Wizard of Oz 1955; Little Bunny Rabbit; Black Cat Hosiery box; head vase; **many other items.**

NOTE: Socorro & Ed ran a antique shop for years, they keep the rare and very good items. All of this can from their home. There are many rare and quality toys and banks. The Raggedy Ann collection has many very rare items. If you were at their auction last year when we sold their Halloween, this is the better items that were in the home. Check pictures at www.thummelauction.com.

SOCORRO & ED PATE ESTATES

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



Yard & Garden Tips

By Gregg Eyestone

Join Other Gardeners in Learning

The new class of Riley County, K-State Research and Extension Master Gardeners will start on Thursday, September 2. Presently, the learning will be in-person instruction. There is an online only option. The in-person instruction will take place in Pottorf Hall in CiCo Park where there is room to spread out. Over 300 community members have taken the course. Currently, 60 members reach out and teach the joys and advantages of gardening to their neighbors.

Sign up today to become one of these gardening enthusiasts. You can do that by going to our website at www.riley.ksu.edu and clicking on the Master Gardeners tab on the left side. Applications are also available at the Extension office which is on the second floor of the

Riley County Office Building, 110 Courthouse Plaza. The cost is \$100 for the instruction due by the first day of class.

Learn about growing flowers, vegetables, fruits, turfgrasses, and woody plants. Other sessions will be on plant growth and development, the care of plants, and their pests. Wildlife management is also covered.

Giving back is the best part of the program. One of the earliest projects started by the first class is the garden tour. Butterfly garden habitat is a passion for many gardeners. The Master Gardeners continue to care for their demonstration garden at Sunset Zoo. It provides a living demonstration all year. Earth Day is a special event where the gardeners grow and give out butterfly milkweed and other but-

terfly loving plants and information.

Riley County, K-State Research and Extension Master Gardeners meet every other month for an educational program and to keep abreast of any community program request.

Please consider joining in on the fun of being a local volunteer with the Master Gardener program. Your yard and neighbors will thank you. Contact the office if you any questions.

You can find out more information on this and other horticulture topics by going to the Riley County, K-State Research and Extension website at www.riley.ksu.edu. Gregg may be contacted by calling 785-537-6350 or stopping by 110 Courthouse Plaza in Manhattan or e-mail: geyeston@ksu.edu.

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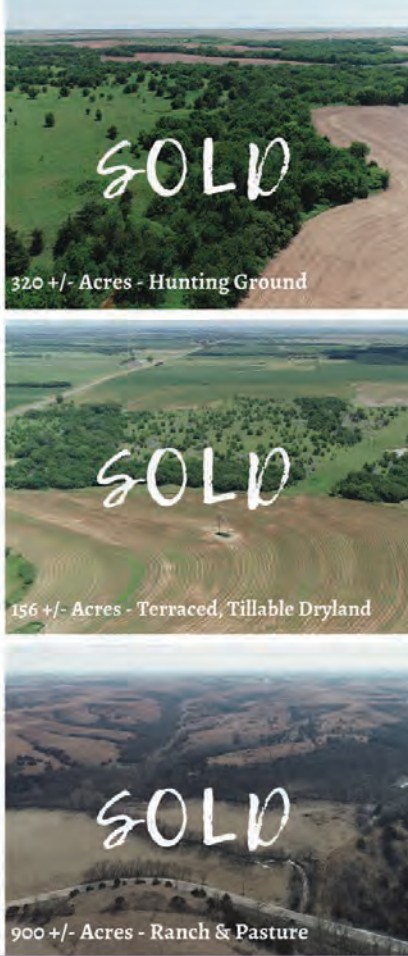
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Old Equipment Exposition to be held August 27-29 near Concordia



This 1930 Caterpillar Elevating Grader will be put to work at the Historical Construction Equipment Association's Old Equipment Exposition. The event is hosted by Prairie Plowing Days and will be held August 27th, 28th and 29th on the Kurt Kocher Farm south of Concordia. Kurt Kocher is pictured with and owns the machine.



This Massey-Harris 4-wheel drive model was made between 1930 and 1936. It is one of the unique and still operational tractors to be on display at the Historical Construction Equipment Association's International Convention and Old Equipment Exposition.

Live Cattle Marketing Committee passes new resolution, directive

The NCBA Live Cattle Marketing Committee met during the Cattle Industry Convention in Nashville, Tenn., and put forth a new resolution and directive. The new resolution pertains to CME Group Live Cattle and Feeder Cattle Futures Contract price limits. It states NCBA supports the use of expanded price limits following a limit-move event, but opposes formula-based variable price limits as

a means to expand daily limits within the contracts. Formula-based limits can cause confusion, which could lead to less use of risk management tools.

The directive passed by the committee created a new working group that will focus on market information, transparency and reporting. The group will look more closely at eliminating the impacts of Livestock Mandatory Reporting (LMR) confi-

dentiality guidelines to ensure live cattle market transparency; defining the key elements of a cattle contract library and associated LMR reporting to achieve more price transparency; determining the type and content of captive supply and other alternative marketing agreements that must be reported to USDA; reviewing the functions and intentions of the Packers and Stockyards Act relative to transparency; evaluating the need for additional research focused on further establishing regional levels of negotiated trade that provide robust price discovery; and reviewing current criteria that requires packing plants to participate in LMR and determine if changes to those thresholds are needed. Recommendations in these areas are to be provided by the working group at the 2022 Cattle Industry Convention in February.

ONLINE ONLY PROPERTY AUCTION

ENDS THURSDAY, SEPTEMBER 23, 2021 AT 6:00 PM
www.MidwestLandandHome.com

Tract 1: House & approx. 19.5 ac. This farm home is a 4BR, 2BA, 1.5 story home w/central heat & air, a large deck & great view. **Tract 2:** Approx. 140 acres total with 82.69± acres of CRP. 19± acres of hay meadow. The balance being excellent quality wildlife habitat. **Tract 3:** Combined Tracts 1 & 2. **Location:** From Clifton, KS go East on Hwy. 9 for 1.5 miles to Fox Rd. go North on Fox Rd. 1/2 mile. Watch for sale signs. **PROPERTY VIEWING OPPORTUNITY:** Sunday, August 29, 2021 from 1-4 P.M. **For more information on the home contact, Jessica Leis at 785.562.7817, on the land contact, Mark Uhlik at 785.747.8568.**

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Mark Bischoff Retirement
Williamsburg, KS

Mark Bischoff, Owner - 785-418-7507

Bob Eichenberger, Sales Rep - 785-566-8818

Items Pictured: 1996 John Deere 925F 25' Flex-Header; 1994 John Deere 9500 4x4 Combine; 1996 John Deere 385 4x5' Round Baler

Also Listed: John Deere 7000 6R30" Row Crop Planter, A&L AL-425 Bushel Grain Cart, K-M Rake Caddy 10 Wheel Rake, John Deere 210 13' Double Offset Disk Harrow, Duetz-Allis V1200 17' Folding Field Cultivator, Schuler 5'x10' Pull Type Manure Spreader, 1973 John Deere 346 Square Baler, Belltec TM-48 Post Hole Digger, John Deere 270 9' Disk Mower, Balemaster JDRBSOH-3500-SS WITH Ball Bale Spear w/ Gooseneck Ball Hitch, Tri-L Bale Spear, Meleco 48" Pallet Forks, John Deere CAT III Quick Hitch, Unverferth HT-30 Header Trailer, Firestone All Traction Radial DT/Performer Bar Tires, Titan Hi-Traction Lug Radial Bar Tires.

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Grass & Grain Area Auctions and Sales

Due to the uncertainty of events, if you plan to attend any of the following auctions and have any doubts, please contact the auction company to confirm that the auction will be conducted and inquire about safety procedures if you are concerned. And please check their websites.

Hundreds of auctions, online and in-person. www.kansasauctions.net/gg/

Always great online Equipment auctions — www.purplewave.com

Online Only Farm Equipment & Tool Auction (Open Now; Begins to close August 24, 6 PM; items located at Auburn) — Over 200 lots of farm equipment, shop tools, tool related items, lawn & garden & more held at <http://rjsauctionservice.hibid.com/auctions/current>. Auctioneers: RJ's Auction Service, Richard Garvin.

Online Only Property Auction (ends September 23, 6 PM) — Tract 1: House & approximately 19.5 acres, come with CRP acres, mature oaks, older buildings; Tract 2: approximately 140 acres with CRP, hay meadow & wildlife habitat; Tract 3: Combination of Tracts 1 & 2 held online at www.MidwestLandandHome.com for Mary Cordry. Auctioneers: Midwest Land & Home, Mark Uhlik, listing broker/auctioneer; Jessica Leis, residential specialist.

August 24 — (Tuesday evening): Operating Restaurant on Hwy. 56 selling turn key operation held at Overbrook for Jack's Cafe, Linda Musick. Auctioneers: Miller & Midyett Real Estate, Wischropp Auctions.

August 25 — 2005 Explorer XLT, contents of 4 storage units to including misc. household & tools, antiques, furniture, crocks, old toys & much more held at Burlington for Freddie Darnell. Auctioneers: Kurtz Auction & Realty Service.

August 26 — Real Estate consisting of approximately 78.8 acres of farmland held at Solomon. Auctioneers: Wilson Realty & Auction Service.

August 26 — Ranch-style home, tools & more held at Salina for Jay R. Watkins. Auctioneers: Thummel Real Estate & Auction, LLC.

August 27 & 28 — Selling Aug. 27: lots of Glassware of all kinds, large pitcher collection, lots of children's toys & games including dolls, belt buckles, collection of small lamps & lanterns, graniteware & kitchenwares & more; Selling Aug. 28: Goat-powered wooden treadmill butter churn, crocks, signs, pictures, scales, LOTS of collectibles, furniture, tractor, outdoor items, tools & more all held at Hillsboro for Allnutts Antiques & Things, Fred & Pat Allnut. Auctioneers: Leppke Realty & Auction.

August 28 — Antiques, household, firearms, NA-SCAR collectibles, furniture, toys, very unique antique train set held at Wamego for The Late Delbert & Barbara Eckart. Auctioneers: Foundation Realty, Morgan Riat.

August 28 — Farm auc-

tion consisting of farm equipment, garden tractor, snow plow, cattle & hog wire panels, round bales brome hay & more, milking equipment, shop tools & misc., household & collectibles held at Overbrook for Matt & Shelley Harding. Auctioneers: Harris Real Estate & Auctions, LLC., Dan Harris & Cody Askren.

August 28 — 2000 JD 4700 FWA diesel Tractor, vehicles, trailers, shop & household held at Salina for W. Keith Whitney Trust. Auctioneers: Van Schmidt Auction.

August 28 — Nice line of late model tractors, machinery, semi & trailers, 1965 Chevy Caprice & more held at Pawnee City, Nebraska for Bryce Niss Estate. Auctioneers: Speckmann Realty & Auction Service, Wes DeBuhr.

August 28 — 1990 JD 3050 front wheel assist tractor w/740 JD loader, other farm machinery, 632 Bobcat skid steer, Shaver 3 point post driver, 2019 Fusion Impact 37' toy hauler, Doolittle cargo trailer, 6x12, older livestock trailers, Honda Foreman 4x4 4-wheeler, full behind mower, Lincoln portable welder & welding trailer, lots of sheep & goat equipment, complete Sydel working alley with round pen & scales, other livestock equipment, fencing, Cub Cadet & Massey garden pulling tractors, pedal tractors, shop equipment, hay & straw, airplane hanger door, building materials, misc. & antiques held at Burlington for Grover & Linda Cleveland. Auctioneers: Kurtz Auction & Realty Service.

August 28 — Antique furniture, Fort Morgan gun safe, appliances, belt buckle collection, farm & construction toys, glassware, Lenox porcelain garden bird collection, pictures, Christmas decor, yarn, lawn & garden & more held at Manhattan for Warren & Kaye Blodgett Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

August 28 — Collector vehicles, trucks, tractors, backhoe & construction equipment, Doctors Buggy & sleigh & collectibles, household, tools, large amount of salvage & much more held at rural Baldwin City (Vinland) for Bill & Terry Winegar. Auctioneers: Elston Auctions, Mark Elston.

August 29 — Tools, 2009 Chevy Silverado 1500 pickup, mower, guns, household, coins, belt buckles, toys & more held at Beatrice for Galen & Vickie Walters Trust. Auctioneers: Olmsted & Sandstrom.

August 29 — Signs & collectibles including 50 neon beer signs, Hamm's Beer, Coca Cola & more, 100+ beer taps, Coca Cola advertising pieces, handmade wooden wagon, electric train accessories, some furniture, 2 newer pop vending machines, floor safe & more held at Solomon for Guy E. (Big Ernie) Hough Jr. Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

August 31 — Furniture, appliances & household held near Sedgwick for Bernadine Manning Estate. Auctioneers: Van

Schmidt Auction.

September 4 — (9AM) Motorcycles, shop items, furniture & household held at Sedgwick for Superno & Schmidt. Auctioneers: Van Schmidt Auction.

September 4 — (5:30 PM) Tractors including 1992 JD 4455, 1962 Case 930; 1984 GMC 7000 truck, farm machinery, bins & more held near Newton for Anton & Patsy Klassen Trust. Auctioneers: Van Schmidt Auction.

September 4 & 5 — Cast iron & other toys, Smith Miller trucks, cast iron banks, railroad items, crocks, 100+ Halloween & Christmas items, rare Raggedy Ann dolls, collectibles & more held at Salina for Socorro & Ed Pate Estates. Auctioneers: Thummel Real Estate & Auction, LLC.

September 4, 5 & 6 — Collectible Allis Chalmers Tractors, machinery & parts, plus other brands of antique tractors & modern machinery. Selling Sept 4: Tools, antique hit-and-miss motors, AC tractors, pickup, skid loader, drill, gravity box wagons, AC & Gleaner combines, AC machinery, AC salvage tractors & combine, salvage. Selling Sept. 5: shop tools & misc., 100s of Allis Chalmers tractor parts, Ray's famous 4-wheel parts wagon, 100s & 100s of steel wheels, iron wagon wheels, spoke wheels, antiques, guns & toys. Selling Sept. 6: Parts & shop items, pump jacks, rough-cut lumber, antique tractors (most are not running), later model & antique farm machinery, lots of salvage. All days held near Beattie for Ray O'Neil Estate. Auctioneers: Cline Realty & Auction, LLC.

September 6 — 2007 Mercury Grand Marquis 4-door car, furniture, appliances & household held at Moundridge for Twila (Arnold) Becker. Auctioneers: Van Schmidt Auction.

September 6 — Guns, Collections including advertising yard sticks, canes, walking sticks, padlocks, marbles, toys; furniture, outdoor items, tools & miscellaneous held at Emporia for the Late Gail Hancock collections & other local sellers. Auctioneers: Flint Hills Auction and Wischropp Auctions.

September 6 — 2009 Chevrolet Malibu car, farm equipment & related items including a 1969 Massey Ferguson 165 gas tractor, guns, antiques & household held at Walton for Alden Stratton. Auctioneers: Auction Specialists, LLC.

September 6 — Store & primitive collection, antique furniture, crocks, toys, glassware & much more held at Salina for John McIntyre Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 7 — Real Estate auction consisting of a 4 bedroom, 1 bath home held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

September 8 — Unreserved Online Auction consisting of 1996 JD 925F flex header, 1994 JD 9500 4x4 combine, 1996 JD 385 round baler & more farm equipment for Mark Bis-

choff Retirement. Online at www.bigiron.com. Auctioneers: Big Iron Auctions.

September 9 — Tractors, combines, trucks, trailers & cars, farm machinery & more held at Rice for Larry Chartier Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 11 — Real Estate, tractor, machinery, livestock equipment, vet supplies, meds, tools & miscellaneous held at Clay Center for Noffsinger Veterinary Hospital. Auctioneers: Clay County Real Estate, Greg Kretz, salesman & auctioneer.

September 11 — 2018 John Deere 2WD Gator (62 miles), 32' Salem travel trailer, lawn mowers, tools, miscellaneous household held at Burlington for Nancy Billings. Auctioneers: Kurtz Auction & Realty Service.

September 11 — Tractors, farm machinery, trucks, livestock equipment, collectibles, miscellaneous & more held at Nortonville for Pearl & (The Late) Don Cowley. Auctioneers: Chew Auction Service, Robert Chew.

September 11 — Large assortment of items amassed from attending auctions including antiques, collectibles, iron, signs & outdoor items held at St. Marys for Bob Kolde. Auctioneers: Foundation Realty, Morgan Riat.

September 11 — Antique & Collectibles, furniture, primitives, household, beer memorabilia, Pepsi & Coca-Cola items, marbles & more held NW of Marysville for Sue Breeding. Auctioneers: Olmsted & Sandstrom.

September 11 — Large coin auction held at Salina for an individual estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 11 — ATV, zero turn mower, collectibles & much more held in rural Lawrence for Mrs. "Neil" Kathleen Wright. Auctioneers: Elston Auctions.

September 12 — Buick car, toys, antiques, tools & more held at Salina for William & Kathleen Baldwin & Joe & Dawn Koenig. Auctioneers: Thummel Real Estate & Auction, LLC.

September 14 — Crocks, antique furniture, primitives held South of Courtland (at Kackley) for Ephriam Hedstrom Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 15 — Real Estate consisting of 460 acres m/l in Geary County (near Alta Vista). T1: 77.7 ac. m/l farmstead, farmland; T2: 75 ac. m/l all in pasture land; T3: 74.36 ac. m/l tillable ground; T4: 23.8 ac. tillable ground held at White City for Allan Glen Avellanet Estate. Auctioneers: Brown Real Estate & Auction Service, LLC., Jay Brown & Greg Hallgren.

September 16 — 39.73 acre farm with home & buildings, 1978 Ford pickup, motorhome, lawn mowers, tools, antiques & household held near Tipton for Eugene R. Seidel Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

September 18 — Real estate consisting of 161 acres m/l offered in 4 tracts located on the Wabaunsee/Shawnee County line: T1: 8 ac. w/berm style home, shop/machine shed; T2:

98 ac. pasture & wildlife habitat, creek, barn, cattle shed; T3: 106 ac. combo of T1 & T2; T4: 55 ac. pasture w/pond, 6 ac. crop ground, water line, possible building site. Will also sell some personal property held on-site at Maple Hill for Richard & Susan Flannigan Trust. Auctioneers: Pearl Real Estate & Appraisal Service. Mike Pearl & Dennis Rezac.

September 18 — 39 guns, ammo, knives, farm toys, Sandzen water color, collectibles & more held at Belleville. Auctioneers: Thummel Real Estate & Auction, LLC.

September 18 — Tractors, equipment, collectibles & much more held in rural Lawrence for Dave McClure. Auctioneers: Elston Auctions.

September 19 — Crocks, tins, tools & more at Salina for Lavonne Sutton. Auctioneers: Thummel Real Estate & Auction, LLC.

September 23 — Antiques & collectibles including 12 place Franciscan china, Frankoma, bell collection, loom, modern kitchen items & more held near Concordia for Donna Johnson. Auctioneers: Thummel Real Estate & Auction, LLC.

September 25 — Vehicles, collectibles, tools & much more held at Lawrence for Harold & Sue Myers (Baldwin City). Auctioneers: Elston Auctions.

September 25 — Snap-On Tools & others, motorcycles, cars, pickups & many more items held at Abilene for Troy Hoffman Estate. Auctioneers: Randy Reynolds & Greg Kretz.

September 25 & 26 — 1941 Ford Super Deluxe 2-door coupe, 1925 Model T 4-door, 1926 Model T doctors car, 1928 2-door Model A, Ford TO 20 tractors, Allis WD, IH FC tractor, signs, car parts, antiques, guns & more held at Fairbury, Nebraska for Jimmy Shepek Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

CattleFax forecast optimistic for beef industry

Strong demand combined with higher cattle prices signals an optimistic future for the beef industry. That's what CattleFax analysts told those attending the Outlook Seminar during the Cattle Industry Convention in Nashville. Consumer and wholesale beef demand are both at 30-year highs and, according to CattleFax vice president of industry relations and analysis Kevin Good, all classes of cattle are projected to trade higher, with prices expected to improve several hundred dollars per head over the next three years.

"As drought, market volatility and processing capacity challenges unnerved producers over the past 24 months, the industry is liquidating the beef cowherd, which is expected to decline 400,000 head by January 1, reaching 30.7 million head," Good said. "While fed cattle slaughter nearly equals 2019 highs at 26.5 million head this year, we expect a 500,000 head decline in 2022. This, combined with plans for new packing plants and expansions, possibly adding nearly 25,000 head per week of slaughter capacity over the next few years, should restore leverage back to the producer."

Good forecasted the average 2022 fed steer price at \$135/cwt., with a range of \$120 to \$150/cwt. throughout the year. Over the next three years, the 800-lb. steer price is expected to average \$165/cwt., with a range of \$150 to \$180/cwt. The 550-lb. steer price is estimated to average \$200/cwt., with a range of \$170 to \$230/cwt. Finally, Good projected bred cows at an average of \$1,750/hd. with a range of \$1,600 to \$1,900 for load lots of quality, running-age cows.

Also during the seminar, Creighton University Professor Emeritus Art Douglas forecasted a return of La Niña this fall likely would intensify drought for the West and Plains region into early 2022. CattleFax vice president of research and risk management services Mike Murphy suggested the drier weather in the Northern Plains and West will pressure crop and hay production levels and quality this season. Hay prices are expected to average nearly \$170/ton this year and should be steady to \$10 higher in 2022, he said.

tate & Auction, LLC.

October 2 — Fall Consignment Auction held at Holton. Auctioneers: Harris Real Estate & Auctions, LLC.

October 2 — Tractors, combines, trucks & trailers, machinery, cattle equipment held South Minneapolis for Don Koster. Auctioneers: Thummel Real Estate & Auction, LLC.

October 3 — Public auction held in rural Lawrence for Hank, Sue & Amy Booth. Auctioneers: Elston Auctions.

October 5 — 208 acres m/l of Washington County land including pasture with 148 ac. native and 60 ac. CRP being grazed. Also ponds, pipe corral and some wooded areas held at Randolph for Don Finney Trust. Auctioneers: Ruckert Realty & Auction, Jeff Ruckert.

October 9 — Tractors, firearms, antiques, cools & more held at Wamego for Dennis & Betty Stauffer. Auctioneers: Foundation Realty, Morgan Riat.

October 9 — Land auction consisting of 181 acres m/l of Marshall County bottom land cropland, upland cropland with good fences, running water held at Blue Rapids for Tim & Catherine Gastmann. Auctioneers: Midwest Land and Home, Mark Uhlik, Jeff Dankenbring.

October 9 — Judd Ranch 31st Annual Cow Power Gelbvieh, Balancer & Red Angus Female Sale held at Pomona.

October 16 — Fink Beef Genetics Fall Angus and Charolais Bull Sale held at Randolph. Call Galen Fink, 785-532-9936 for information.

December 4 — St. James Catholic Church Consignment Auction consisting of farm & construction equipment, vehicles, hay, farm supplies, hedge posts, livestock equipment & more held at Wetmore. To consign, contact Bill Burdick, Ron Burdick.

AUCTION

SUNDAY, AUGUST 29, 2021 — 10:00 AM

Auction will be held at the corner of 6th & Willow Streets in SOLOMON, KANSAS

SIGNS & COLLECTIBLES

50 neon beer signs; signs inc: (Texas & Southwestern Cattle Raisers, Hamm's Beer unisual, Coca Cola w/bottle, VeeDol Oil, Victor, Diamond Tire, Delco Battery, Victory Highway, Parg Danger, Pepsi menu board, others); Safety Cup Cone display; penny scale; Coca Cola pop machine; Coca Cola picnic cooler; several Coca Cola advertising pieces; 100+ wooden pop cases some unusual inc: Dr. Nut; Corona card table & chairs; 100+ beer taps; rep Fire Chief; gas pump; repro Coca

Cola sign on cast iron base; repro carousel horse on stand; several bird & animal mounts; malt machine; lcee machine; 2 Hoosier kitchen cabinets; pinball machine; wagon seat; car tags; weather vane; 1 cent peanut machine; Japanese pinball machine; 2 wooden practice shells; yard long pictures; wind charger tail; Niehoff cabinet; 5 gal oil cans; wash bench; metal ridge row; galvanized buckets; large collection wood boxes; ammo boxes; 6' store table; handmade wooden wagon; blue base cabinet; electric train

accessories; stamp machine; pictures; games & toys; newer oil signs; match book collection; claw foot round oak table; 6 oak pattern back chairs; chest deep freezer; 15 cu refrigerator; washer & dryer; cedar chest; waterfall 3 pc. bed room set; other household furniture; 2 newer pop vending machines; floor safe; new fire place insert; 4x8' sheets plywood; 2 large rolling shelves; power washer; lawn chairs; bench grinder; electric mobility chair; yard deer; Lg. asst. of other items. Check our website for pictures.

NOTE: Check our website for pictures at www.thummelauction.com. This is a Very Large Auction with many boxes, beer items!

GUY E. (BIG ERNIE) HOUGH JR. ESTATE

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

AUCTION

SATURDAY, AUGUST 28, 2021 — 10:00 AM

Auction will be held at the National Guard Armory, 721 Levee Drive, MANHATTAN, KS

Oak curved glass secretary; oak curved glass china cabinet; oak 42" S roll top desk; round oak table w/6 chairs; oak commode; oak drop front desk; walnut dresser & commode w/carved handles; 20s walnut 3 pc. bedroom set; walnut turtle top table; iron bed; Jenny Lind bed; quilt rack; large mirror; hall mirror w/marble seat; set 4 oak child's chairs; walnut cane bottom & cane back rocking chair; 3 pc. queen bedroom set; sofa; end tables; 2 rocker recliners; maple dropleaf dining table; sofa table; 5 drawer dresser; full bed; Fort Morgan gun safe; pine wood gun cabinet; computer desk; Whirlpool over counter microwave; Kitchen Aid flat top stove w/oven;

Maytag washer; Kenmore dryer; Hydraulic salon chair; cedar chest; TV console; Bernina Matic sewing machine; area rug; Panasonic vacuum; toy chest; outdoor table & chairs; fans; printer; Aladdin lamp w/shade; Hesston belt buckle collection; farm toys; construction toys; Cabbage Patch kid; Boyds Bears collection; buckboard spring seat; oak wall telephone; cut glass; assortment of pressed glass; 50s pitcher & glasses; 11 Lenox porcelain garden bird collection; covered butter dishes; nesting bowls; collector plates; cartoon glasses; cake plates; covered turkeys; pitcher & bowl; blue & gold 3 light chandelier; hurricane lamp; lamps; assortment

hand painted plates; dresser set; assortment pictures inc: (wildlife, Terry Redlin, Betty Mosier prints, Alfreda Johnson Peterson watercolors & pen & inks, yard of chickens); trombone; wood baskets; assortment yarn; embroidery floss; Dooney & Bourke purses; large assortment of Christmas; Corningware; Walt Disney VHS tapes; many rolls decorative fabric; picture frames; large amount of craft supplies inc. yarn & thread for needlework; beauty shop supplies; Yard Machine gas edger; coolers; Sam Snead golf clubs; canning jars; electric leaf blower; Poulan gas pole saw; shop tools; electric drills; chain link dog kennel; assortment of other items.

NOTE: Check website for pictures www.thummelauction.com. Lunch by Silver Creek Beneficiary Club.

WARREN & KAYE BLODGETT ESTATE

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

