



64th annual Wheat Tour returns to full scope

Editor's Note: This week begins our annual five-week Wheat Harvest Series. The series is sponsored this year by Kansas Wheat, Luco Manufacturing, Herra Machine Hydrostatics and Hoffman Brothers Welding.

By Lucas Shivers

The Wheat Quality Council's 64th Annual Hard Winter Wheat Evaluation Tour road tripped across the region to determine the best predictions of wheat yields for the 2022 harvest.

More than 80 individuals from 24 states, plus Mexico and Canada, traveled in 20 vehicles on six routes on May 17-19, stopping at wheat fields every 15-20 miles along the routes to sample data for potential yields.

The average predicted 2022 wheat harvest yield is 39 bushels per acre, said Marsha Boswell, vice president of communications for Kansas Wheat.

"These estimates are for this year's hard winter wheat crop during this current snapshot in time," Boswell said.

From USDA data on May 15, 2022, Kansas winter wheat condition rated 17% very poor, 24% poor, 35% fair, 22% good and 2% excellent.

Post-COVID "Field Trip" Returns

Almost 40 of the 80 participants took part for the first time with a return after COVID interruptions.

Participants took repeated yield measurements, using a formula provided by USDA's National Agricultural Statistics Service (NASS) based on 2012-2021 Kansas wheat objective yield data.

"Every tour participant makes yield calculations at each stop based on three different area samplings per field," Boswell said. "These individual estimates are averaged with the rest of their route mates, and eventually added to a formula that produces a final yield estimate for the areas along the routes."

Producers can calculate their own field estimates using the same formula with instructions at kswheat.com.

Expanded Networks

To build connections

K-State researchers tackle common bunt from the spore to the seed

By Julia Debes

On the upper floors of Throckmorton Hall at Kansas State University, a nondescript gray cabinet and set of freezers hold a collection of spores gathered from across the world to help Kansas wheat producers better manage common bunt.

"We have had, in the last five years, more fields affected by common bunt, and these fields have had

and direct experiences, the tour allows for interactions and expanding networks of wheat-focused professionals like millers, bakers, food processors and traders who buy Kansas wheat.

"While yields tend to be the spotlight of the Wheat Quality Tour, the real benefit is the ability to network among the 'grain chain,'" Boswell said. "This tour gives Kansas farmers the chance to interact with and influence their customers around the globe."

Once harvested, the wheat crop will go into breads and other food items.

"Many tour participants had never stepped foot in a wheat field before and had only seen these Kansas plains from the window seat of passing airplanes," Boswell said.

Romulo Lollato, K-State wheat extension specialist, reported that yields varied greatly based on the cropping system. Wheat after fallow looked better than wheat after corn or soybeans.

"We saw wheat today that looked better than other fields, but compared to last year, the yield potential is not nearly as good," Lollato said. "We need to be thankful to breeders that we have a crop this year. Genetics are playing an important part. Genetics will have a huge impact on baking quality and protein."

Lollato added, kernels are currently developing, so test weights may improve if rains come at the right times. Heat stress can hurt the test weights.

Day 1

On the first day of the tour, the wheat scouts made 248 stops at wheat fields across north central, central and northwest Kansas and into Nebraska.

"The calculated yield is based on what scouts saw at this point in time," Boswell said. "A lot can happen between now and harvest. The calculated yield from all cars was 39.5 bushels per acre, which was 20 bushels lower than the yield of 59.2 bushels per acre from the same routes in 2021."

Statewide, based on

substantial yield loss," said Kelsey Andersen Onofre, assistant professor of plant pathology in K-State's College of Agriculture, who leads this research project along with fellow K-State plant pathologists Erick De Wolf and Sanzhen Liu, and Robert Bowden, supervisory research plant pathologist with USDA's Agricultural Research Service (ARS). "We want to be able to help producers with making management decisions, choosing the right fungicide seed treatments, having them properly applied and working with the breeding material to understand if there are resistance genes that exist in current Kansas varieties."

Also known as stinking smut, common bunt occurs regularly in Kansas at varying levels. According to K-State Research and Extension, the fungal disease causes moderate deformation of wheat kernels, which can have a gray color and a strong fishy odor. Infected kernels are also filled with black powdery spores, known as teliospores, versus white starch.

In addition to yield losses, common bunt negatively impacts milling and baking quality. Too much



A participant in the Wheat Quality Council's annual Hard Winter Wheat Evaluation Tour takes measurements.



Marsha Boswell, vice president of communications for Kansas Wheat, gets assistance in taking measurements from three-year-old Catarina Debes, daughter of Julia and Josh Debes.

May 1 conditions, Kansas' 2022 winter wheat crop is forecast at 271 million bushels, down 93 million bushels from last year's crop, according to NASS.

K-State researchers tackle common bunt from the spore to the seed

infected wheat results in dockage or rejection at the elevator, leaving producers without good alternatives for selling the lower-quality wheat.

In the 2019-2020 wheat growing season, wheat producers in parts of Kansas and Oklahoma had decade-high levels of yield loss due to common bunt. The bunt spores also looked different under the microscope when examined by grain inspectors. As a result, the Kansas Wheat Commission and U.S. Wheat Associates, the wheat industry's export market development arm,

approached K-State researchers with a challenge — learn everything about common bunt and the fungal pathogens that cause the disease, including how to better identify it and manage for it.

"We need to develop a better test and be sure we do not have isolates of something other than common bunt," Andersen Onofre said. "We also need to make sure we're still making the right management recommendations to our producers here in Kansas. So, we want to make sure the biology is still making the true and that we can still make the same recommendations about

seed treatments and planting timing to keep common bunt under control."

Common bunt is caused by two closely related, but easily distinguished fungal pathogens— *Tilletia tritici* and *T. laevis*. Onofre and her team started their research by gathering spore samples of these pathogens from Kansas and Oklahoma. The team also collected isolates for *T. controversa* — the fungal pathogen that causes the highly regulated TCK or dwarf bunt — and *T. fusca* — another related species that infects wild grass species. These isolates came from across the United States, including the Pacific Northwest, Michigan and New York. Researchers also obtained special pathogen permits to collect samples from Canada, Europe, Asia and Australia.

Once the isolates were gathered into that gray cabinet in Throckmorton Hall, each in an individual drawer marked with a scannable QR code, the real work could begin. Onofre's team is categorizing each sample by phenotype (how it looks under the microscope) and genotype (DNA analysis). Teliospores — which look like tiny spiky soccer balls

comparable to last year's 7 million acres.

The overall theme for day one of this year's tour was "spotty" as the crop was thin and short, Bo-

K-State researchers tackle common bunt from the spore to the seed

swell said.

comparable to last year's 7 million acres. The overall theme for day one of this year's tour was "spotty" as the crop was thin and short, Boswell said.

"The wheat in southwest Kansas looks very rough, and the drought conditions aren't just isolated to southwest Kansas, but into south central Kansas as well," Boswell said. "Wheat behind corn provided some of the lowest yields, while wheat on fallow had some of the highest yields."

The calculated yield from all cars was 37.0 bushels per acre on day two.

scouts were counting wheat heads, number of spikelets and kernels per spikelet," Boswell said. "The wheat is so short that some of the heads will not be able to be picked up by the combines at harvest."

The yield formula doesn't take disease, pests or weed pressure into consideration. Scouts reported some instances of wheat streak mosaic virus, into areas farther east than expected or typical, but western Kansas had fewer instances of diseases because of the drought.

scouts were counting wheat heads, number of spikelets and kernels per spikelet," Boswell said. "The wheat is so short that some of the heads will not be able to be picked up by the combines at harvest."

The yield formula doesn't take disease, pests or weed pressure into consideration. Scouts reported some instances of wheat streak mosaic virus, into areas farther east than expected or typical, but western Kansas had fewer instances of diseases because of the drought.

K-State researchers tackle common bunt from the spore to the seed

will be some pretty exciting data we will have to share this coming winter."

"We don't want to miss the opportunity to educate about managing these pathogens while we're doing some of these genetic studies. We need to get the message out about management as well. We've included some new recommendations about fungicide seed treatments and the importance of using products that have the triazole class of fungicides in the mix."

The research project funded by the Kansas Wheat Commission, the Kansas Wheat Alliance and the Kansas Crop Improvement Association is now backed by a second grant from USDA's National Institute of Food and Agriculture (NIFA) that will focus on an expanded set of objectives. That includes the development of better diagnostic tools for distinguishing common bunt from its trade-restricted relative TCK and the identification of resistance genes within the K-State wheat breeding pipeline.

"We're working on a test that can be used by diagnostic labs," Andersen Onofre said. "The most



A Day to Remember

By Jackie Mundt, Pratt County farmer and rancher

Memorial Day serves in my mind as the unofficial start of the summer, Independence Day the middle, and Labor Day the end. I am aware that this time-frame has inaccuracies, but this engrained set of time landmarks can't be changed in my mind. And I don't think I am alone.

The popular agreement of Memorial Day being summer's kick-off celebration brings with it criticism that too many people think of the holiday as an excuse to party or a day off instead of an opportunity to observe its true meaning.

Memorial Day is intend-

ed to be a day of remembrance for the sacrifice military personnel who died in service to their country. Some people more broadly recognize the contributions of service in the armed forces on this day, which seems appropriate, too, as they have lost comrades and were willing to sacrifice for the country.

My firm association of Memorial Day launching summer does surprise me a little as I don't ever remember this weekend being associated with anything like vacation or party-like in my childhood. I have countless memories of gathering with a small crowd of community members at the local cemetery

to watch the high school band play, see the VFW members present the colors, students leading the Pledge of Allegiance, speakers with words of remembrance, a prayer by local clergy and the chills of 21-gun salutes followed by taps for a somber ending.

Memorial Day never felt like a celebration, but it also never really a time of mourning for me. Beyond the rituals of the ceremonies, I remember appropriately somber reflection on what it must be like for families who lost a loved one and whether or not I could willingly sacrifice my life for my country. I also remember anticipation to go to an event where I could visit with family members and friends from the community.

Important parts of my character and values were being formed by attending those events. I was learn-

ing to take pride in my country, to feel and express gratitude for those who serve, to enjoy community, to feel empathy for those who have lost, and to think about how I could serve in my life.

Another thing I remember is that there weren't a lot of families or kids at the ceremonies. I am not sure if this is because other families were traveling or maybe some thought it too mature for children. I would guess that there are less families attending now than ever and that makes me sad.

Memorial Day helped instill in me the patriotic ideals of our country: freedom, service and sacrifice. It built a sense of community and challenged me to think about how I could continue to contribute to that community.

Some reading this will have attended Memorial Day ceremonies. Thank you for attending and taking time to remember, and build our communities.

For others thoughts of military service may only have come from watching the latest Top Gun movie. You weren't alone, it was a great movie. However, I would challenge you to make a little time to remember the sacrifices of others and to think about how you can serve your community in the future. And don't forget to take your kids, they will remember the time with you and the lessons for the rest of their lives.

"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.

Prairie Ponderings

By Donna Sullivan

Words matter. And as hard as I try to choose the correct, most accurate ones when I'm writing, I do sometimes fail. In last week's column about the Uvalde shootings, I used the term 'automatic rifles' in reference to the weapons the shooter used. A reader emailed me shortly after the online version was released on Monday to tell me that the guns were semi-automatics. "The shooter, without a Class 3 dealers license, could not have purchased an automatic rifle," he wrote. In a follow-up email, he said he hoped he didn't sound too critical. "Unfortunately, there is so much disinformation in the world today when it comes to weapons that I want to point out the truth," he said. "Just like the reference to the AR being an assault rifle, by definition it is not. An assault rifle is one that fires both automatic and semiautomatic, but the AR fires semiautomatic only, therefore technically it is not an assault rifle."

I assured him that I hadn't taken offense to his email at all and that I welcome conversation such as this. I never, ever want to fuel misinformation of any kind.

If I could change things as this conversation continues across the nation, it would be to remove misinformation and inflammatory language from the dialogue. I've never in my life seen any discussion where either of those things were helpful. I would also ask that those using this, or any of the other myriad of crises facing our nation to score political points, to stop. Just stop. Stop playing politics and get to the business of truly serving your constituents.

I do not want to live in a nation whose people are unarmed and unable to defend themselves from whatever threat presents itself. In the Ukraine today, news reports are that tens of thousands of armed civilians are fighting against the Russian invasion. No doubt they have made a difference in the war. The right to bear arms is guaranteed in the Second Amendment of the Constitution for a good reason.

I also don't want to live in a nation where children are gunned down in their classrooms. I have a fourth-grade granddaughter. I never want to get a call that she and all the children that learned together, ate lunch together and played at recess together, also died together at the hands of a shooter.

So let's come together and look for true, workable solutions. Lay the fear tactics, hyperbole – and most of all politics – aside and get to work.

We can do this.



Learning from my previous mistakes is not one of my strong points. I know my family and particularly my wife would agree with this point. I seem to make the same mistakes over and over. I am creative, though, and find new ways to make the same mistake. This past weekend was a prime example of that. I worked on a Sunday. Many of you who read this column regularly know that I have made this mistake several times and each time I pay for it.

I really thought I would be okay this time; in my mind I was invoking the "ox in the ditch" clause. After all, the rye was getting close to being too mature and I was also working on a deadline for my surgery. If that didn't put my ox in a ditch, I don't know what would. Tatum also pointed out that she and Jennifer were going to church and that should count for something. I am not a theological scholar; I am not sure one gets credit for going to church by proxy, but she was thinking.

I decided that I would stay home and mow the rye down so it would be ready to bale and wrap the next day. Lately we have gotten rain every few days and windows to bale have been very few. This is also my fault because I scheduled my surgery for early June, thinking that I could have the rye baled and soybeans planted by then. If the rain has been good for you, you are welcome. If not, I am sorry. In any case, I mowed hay on a Sunday morning and the words of my grandmother echoed in my head. Skipping church to work will never turn out well.

The ox in the ditch theory seemed to work all morning; I mowed along just fine, and I was actually further along than I thought I would be. I started to have grand visions of how much I would get mowed down and how much further along I would be. Then I changed fields. As I pulled up to the stop sign, I thought the mower was bouncing a lot, but the road was really rough, so I dismissed it. A few more yards and I knew I was in trouble. I got off, went back to check and sure enough, the tire was flat. Well, not just flat, but shredded.

Not only was it Sunday afternoon but it was also Memorial

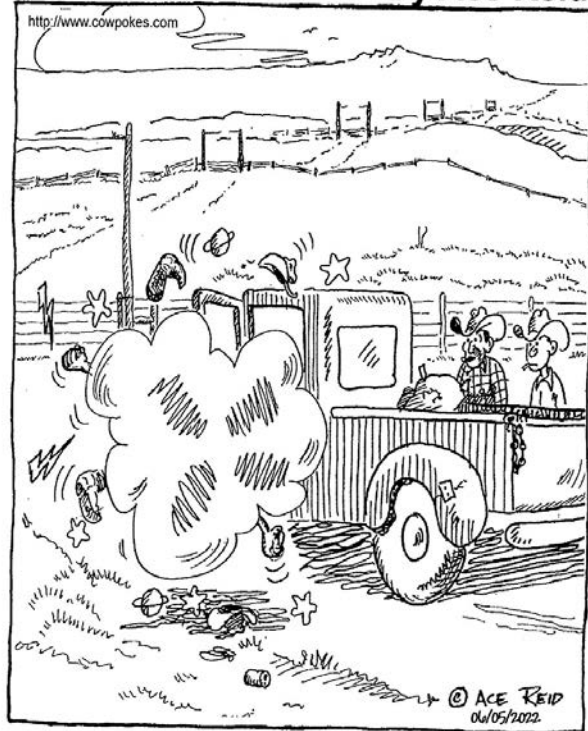
Day weekend. I had no hope of finding a new tire or getting it mounted on the rim. The voice of my grandmother was now very loud in my head, and I knew exactly why this had happened. Oh, did I mention that the forecast was for rain Monday through July? I was not happy with myself. I did luck out and one of my great neighbors came and swathed for me and ended the day with a respectable amount of hay on the ground.

The next day I set forth baling and moving hay to get it wrapped before the storms. Guess what? I should have gone to Memorial Day services because I plugged the baler like I have never plugged it before. Jennifer, Tatum, and I (mostly Jennifer and Tatum) spent the next four hours getting the baler back in commission. Jennifer was considering opting out of the "in sickness and health" part of our vows and Tatum has decided to write her master's thesis on the shortcomings of engineers and round balers. We got back to rolling and at the end of the day we got nearly everything baled but we did not get the hay wrapped.

That night the thunderstorm that was predicted that I thought would miss us dumped over two inches of rain. Did I mention that I decided not to haul the bales in? I was tired and sore. I also must admit that I knew better, and I should have sucked it up and hauled hay that night. The next day we got the hay hauled in. Notice I said 'we.' My neighbor again came to the rescue and helped with hauling. Surprisingly, we didn't track the field up too much and at the end of the day all the hay was wrapped, and everything turned out okay.

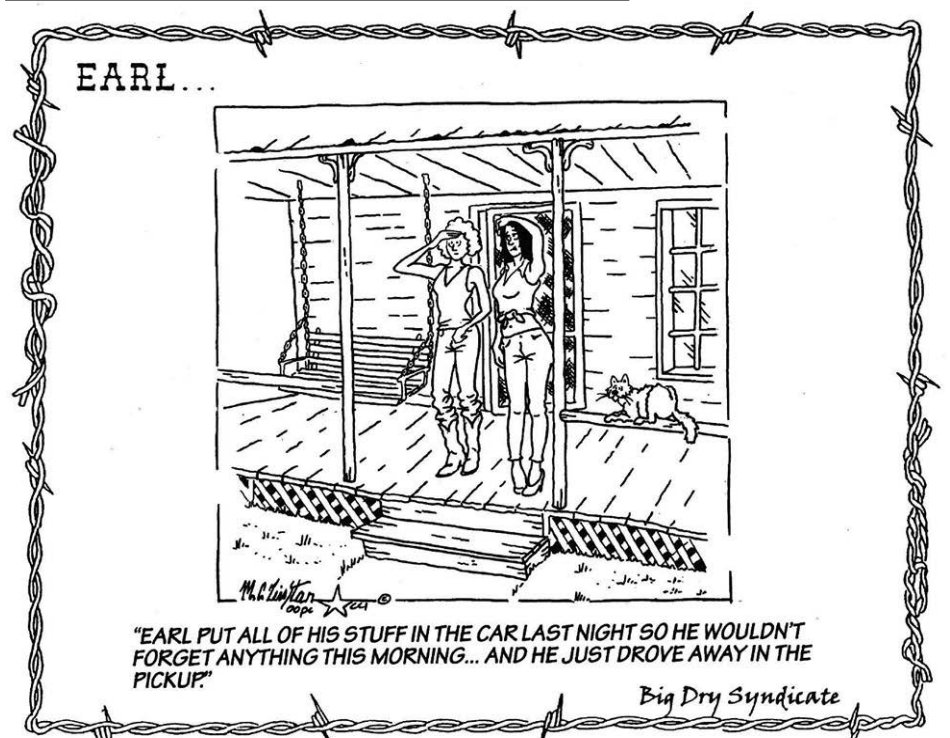
All in all, I guess I can chalk the whole experience up to knowing that I married well, I have a great family, my neighbors are really good people and come through in a pinch every time. However, more than anything I learned that no matter how many times I make the same mistakes that God does take mercy on me. I would like to say I will never again work on a Sunday morning, but we all know that I will slip again. You would think I would learn.

COWPOKES® By Ace Reid



"They're trying to decide whose gonna drive and whose gonna open the gates!"

"I fear that in every elected office, members will obtain an influence by noise, not sense. By meanness, not greatness. By ignorance, not learning. By contracted hearts, not large souls... There must be decency and respect."
– John Adams



"EARL PUT ALL OF HIS STUFF IN THE CAR LAST NIGHT SO HE WOULDN'T FORGET ANYTHING THIS MORNING... AND HE JUST DROVE AWAY IN THE PICKUP!"

Big Dry Syndicate

Since 1954
GRASS & GRAIN
Published by AG PRESS

785-539-7558
Fax 785-539-2679

Publisher – Tom Carlin
Managing Editor – Donna Sullivan
gandgeditor@agpress.com

– Advertising Staff –
Josie Bulk
josie@agpress.com

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

Subscription — \$80 for 1 year, plus applicable sales tax. Outside Kansas, \$53 for 1 year, \$99 for 2 years.

MEMBER OF
Associated Press

www.grassandgrain.com

The competition between science and emotion

Kim Stackhouse-Lawson, Ph.D., director of AgNext and professor in the department of animal science at Colorado State University, kicked off the Cattlemen's Profit Round-up symposium at the American Gelbvieh Association national convention with a presentation around the emotional and scientific struggle that has become the platform for sustainability.

"First and foremost, we have to acknowledge that the space of sustainability is highly political; it's polarizing," Stackhouse-Lawson says. "It's also difficult to get your arms around, and some of that is because emotion and science are parallel in sustainability, and if you ever have a question of whether it's science or emotion that wins, unfortunately, it's always emotion," she says.

Another challenging element of sustainability: everyone defines it differently. The most common way to define the group of principles is through a balanced approach of the measures of social, economic and environmental aspects; however, most impose their own parameters when arriving at a definition.

"In the last four or five years, we've really seen sustainability evolve into a science that works on eliminating risk from a business or supply chain - a corporate risk mitigation strategy," she says, adding that to understand sustainability from this perspective, the conversation has to shift to climate change.

"I want to demonstrate what risk looks like through the lens of climate," Stackhouse-Lawson says. "Risk exists in two forms in this conversation: reputation and access to capital."

Showing a slide of protestors demonstrating out-

side of a European OSI Group beef patty plant, Stackhouse-Lawson admonished the room, "It's getting closer. The caption of this slide reads: 'Protestors blocked four McDonald's sites across England on Saturday, demanding the fast food chain to switch to plant-based products by 2025.' OSI is one step removed from McDonald's. These attacks are coming closer and closer to the supply chain," she said.

If public reputation smears aren't enough, the next slide presented an article clipping from prominent finance magazine, *The Guardian*, warning that European-based banks were confronting regulation to not invest in high greenhouse emitting industries, especially targeting animal agriculture.

"These regulations aren't going to go away. Many of you may have read about COP26 and the Biden administration's commitment to reduce net emissions by 30 percent by 2030," she says. "Approximately 30 percent of methane emissions that we produce in the U.S. come from enteric emissions. We own a relatively large piece of this methane pie."

The Sixth Assessment Report of the United Nations Intergovernmental Panel on Climate Change reported that we can expect to see near one and a half to two degrees Celsius warming, with many scientists and climate experts reporting that our climate impacts are irreversible. Additionally, the International Panel on Climate Change stated that if we are going to curb temperature, we have to stop emitting carbon into the atmosphere... zero emissions.

"This is one of those head shaking moments," Stackhouse-Lawson says. "It doesn't seem very feasible or practical, but that is where the climate sci-

tists are at."

There are three greenhouse gas emissions that are important in animal agriculture: carbon dioxide, methane and nitrous oxide, and each one of those molecules has a different ability to trap heat. CO₂ has the least ability. Methane is 28 times more potent than CO₂, and nitrous oxide is 298 times more potent than CO₂ in trapping atmospheric heat.

Of the man-made greenhouse gases in the United States, carbon dioxide is responsible for approximately 80 percent of our emissions, methane is responsible for approximately 10 and nitrous oxide is responsible for approximately seven. Of those percentages, agriculture contributes 10 percent, and as a sector, animal agriculture contributes 3.8 percent of total greenhouse gas emissions. Both livestock and crop cultivation have increased in greenhouse gas emissions since 1990, 8.5 and 21 percent, respectively—numbers that make sense given the increased number of livestock animals and increased crop production.

Footprint is Different than Absolute Emissions

"Six months ago, I could have come up here and only talked about footprint, but because we've seen an increased focus on greenhouse gas emissions, we need to talk about total emissions and footprints," Stackhouse-Lawson says.

Footprint is the entire system pulled together, divided by the output.

"The most efficient beef producing countries have the lowest carbon footprint, even though the total amount of greenhouse gases those systems produce are the highest," she says, "We are producing more food with less of an impact. We have an important story to tell."

Stackhouse-Lawson says that even though the beef industry has done an exceptional job of reducing the overall footprint, the industry needs to stay vigilant with total emissions.

"The cow-calf sector is responsible for 70 percent of the greenhouse gas footprint of the entire beef sector," she says. "Why? Because of the enteric methane that cows produce. The longer the carbohydrate chains are that a cow eats, the more enteric methane she will produce. She's also producing a calf every year. That complicates things pretty quickly. How do we reach all 750,000 cow-calf producers in the U.S. and figure out what we can do on each of those very, very different ranches to reduce those emissions?"

GWP* (star), a result of 2017 research from Oxford University, is a new way to measure the impact of a molecule of methane based on the fact that methane is a short-lived climate gas; it breaks down the CO₂ and water, leaving the CO₂ to be consumed by plants. This new measurement method will reward an efficient beef system.

"This is good for the U.S. beef herd as long as our emissions stay the same. As an industry, we're expecting our impact on temperature to decrease once the EPA accepts this new scoring model," she says.

Adding that one thing that is never included in the emission models, however, is the fact that not only do our livestock graze marginal land, those rangelands also store 20 percent of soil organic carbon.

"The best thing that we can do right now is keep our grass right-side up," Stackhouse-Lawson says. "Cattle can become an even greater part of the (climate change) solution by increasing soil carbon sequestration."

K-State researchers tackle common bunt from the spore to the seed

• Cont. from page 1

irrefutable way is to look to the DNA of these pathogens; that's how we do a lot of different diagnostic tests across pathogens. We find these segments in their genomes that are different, and then we can use tests like a rapid PCR test. You can have a test that can actually tell us what's there based on these segments of DNA and also how much is present in a sample."

From the gray cabinet in Throckmorton to farmers' fields, the combination of lab work, field studies and new diagnostic tools will provide powerful data for wheat producers to combat common bunt.

Keep track of the project's progress and the latest updates to management recommendations at <https://eupdate.agronomy.ksu.edu/>.

grassandgrain.com



Life doesn't stop for an injury.

**AVOID SURGERY!
Use Your Body's
OWN Stem Cells.**

- Knee arthritis
- Partially torn rotator cuff
- Degenerative disc disease
- Chronic Pain
- And more...

ARE YOU A GOOD CANDIDATE? CALL US TODAY! 785.320.4700

Schedule a **FREE** Consultation or Visit KansasRMC.com to learn more.



Kansas Regenerative
MEDICINE CENTER
Manhattan • Kansas City



Andrew Pope, M.D.



Steve Peloquin, M.D.

GOOD Meat building world's first large-scale lab-grown meat facility

GOOD Meat, the lab-grown, cell-cultured tissue division of Eat Just Inc., announced May 25 that it signed an exclusive multi-year agreement with ABEC Inc. to design, manufacture, install and commission the largest known bioreactors for avian and mammalian cell culture.

According to the group, ten 250,000-liter bioreactors will form the foundation for the facility, which will be in the United States. When fully operational, the complex will have the capacity to produce up to 30 million pounds of cell-cultured

tissue.

The facility will initially produce both chicken and beef cell-cultured tis-

sue, and with the planned capacity, will be able to distribute products across the United States.



**You Dream It.
We Build It.**

From size to accessories, each QSI post-frame building can be tailored to meet your specific needs.

Contact us for details.

QualityStructures.com

800-374-6988



Building the Rural American Dream™



Subscribe to **Grass & Grain** ONLINE at: grassandgrain.com

Never miss an issue of

GRASS & GRAIN

Subscribe or renew today!

New Subscription _____ Renewal _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Email: _____

Activate Online Edition? _____
Online Edition is FREE with purchase of Print Subscription; Email is required.

In-State Print Edition Rates:

1 Year; \$43 + additional sales tax _____

2 Years; \$80 + additional sales tax _____

3 Years; \$111 + additional sales tax _____

**** SALES TAX DETERMINED BY COUNTY AND MUST BE INCLUDED TO RECEIVE FULL YEAR. CALL IF UNSURE.****

Out-Of-State Print Edition Rates:

1 Year; \$53 _____ 2 Years; \$99 _____ 3 Years; \$138 _____

Call for info about our 1st Class or Online Only rates

Check/Cash Enclosed: _____

or

Credit/Debit Card:

Visa, Master Card, Discover, American Express

Expiration Date: ____/____/____

V-Code (3 digits on back of card): ____

Signature: _____

Mail to: P.O. Box 1009, Manhattan, KS 66505
OR Stop by the office: 1531 Yuma St., Manhattan, KS 66502
1-877-537-3816

KANSAS AG REPORT

Ken Rahjes, Host

For TV Show times check your local listings or watch at

kansasagreport.net

GRASS & GRAIN Our Daily Bread

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

Millie Conger, Tecumseh, Wins This Week's Grass & Grain Recipe Contest And Prize

Winner Millie Conger, Tecumseh:
RHUBARB CAKE

1/2 cup butter
1 1/2 cups sugar
1 egg
1 cup buttermilk
2 cups flour (reserve 2 tablespoons to mix with rhubarb)
1 teaspoon baking soda
1/2 teaspoon salt
1 teaspoon cinnamon
1 teaspoon vanilla
2 cups diced rhubarb

Cream butter, sugar and egg. Add buttermilk alternately with combined flour, soda, salt and cinnamon. Mix until smooth. Add vanilla. Toss rhubarb with the 2 tablespoons flour. Add to the mixture and spread in a greased and floured 9-by-13-inch pan. Bake at 350 degrees for about 35 minutes or until tests done. Serve with whipped cream.

Susan Schrick, Hiawatha:

FRUIT COBBLER
(2) 12-ounce bags frozen mixed berries

1 box white cake mix (no pudding)

1 can Diet 7Up or Sierra Mist (clear soda)

Place frozen fruit in a 9-by-13-inch baking dish. Add dry cake mix over the top. Pour soda slowly over cake mix. DO NOT stir the cake mix and the soda; this will give you a "crust." If you stir the two, you will have a cake like topping.

Bake at 350 degrees for 45 to 50 minutes.

NOTE: You may be able to use frozen peaches instead of mixed berries.

Linda Whiteman, Mayetta:
SOUR CREAM APPLE SQUARES

2 cups flour
2 cups brown sugar
1/2 cup soft oleo
1 cup nuts
1 cup sour cream
1 egg
1 teaspoon vanilla
2 teaspoons cinnamon
1 teaspoon soda

1/2 teaspoon salt
2 cups peeled apples, chopped
Cool Whip, if desired

In a mixing bowl combine flour, brown sugar and oleo. Blend at low speed until crumbly. Stir in nuts and press 2 1/2 cups into the bottom of a greased 9-by-13-inch pan. To remaining crumb mixture add cinnamon, soda, salt, sour cream, vanilla and egg. Beat thoroughly. Stir in apples. Spoon batter evenly over bottom layer. Bake at 350 degrees for 35-45 minutes. Cool; cut into squares. Serve with Cool Whip if desired.

Kimberly Edwards, Stillwater, Oklahoma:
FRESH STRAWBERRY POUND CAKE

Cake:
1 box white cake mix
1 cup crushed fresh strawberries

3-ounce package strawberry gelatin
1/2 cup oil
4 eggs

Glaze:
1/4 cup butter
3 1/2 cups powdered sugar
1/4 cup crushed strawberries

Combine cake mix, crushed strawberries, gelatin, oil and eggs together in a large mixing bowl; mix for 3 minutes. Pour into well-greased and floured tube pan. Bake at 325 degrees for 45-55 minutes or until cake tests done. Cool in pan on rack for 10 min-

utes. Remove to serving plate. Combine glaze ingredients and beat with mixer until smooth; spread over cake.

Kellee George, Shawnee:
RHUBARB SALAD

4 cups diced fresh rhubarb
1 1/2 cups water
1/2 cup sugar
6-ounce package strawberry gelatin
1 cup orange juice
1 teaspoon grated orange rind
1 cup fresh sliced strawberries

Combine rhubarb, water, and sugar in a saucepan. Cook and stir over medium heat until rhubarb is tender. Remove from heat and add gelatin; stir until dissolved. Add orange juice and orange rind. Chill until partially set then add strawberries and chill until set.

Margaret Wetter, Norton:

TACO PINWHEELS
4 ounces cream cheese, softened

3/4 cup cooked hamburger
1/4 cup shredded cheese
1/4 cup salsa
1/2 cup shredded lettuce
2 tablespoons mayonnaise
2 tablespoons chopped ripe olives
2 tablespoons chopped onions
5 flour tortillas, room temperature

Beat all ingredients together except lettuce and

tortillas. Spread mixture on tortillas then sprinkle with lettuce and roll up. Wrap in plastic wrap. Refrigerate 1 hour. Unwrap and slice into bite-sized pieces.

Jackie Doud, Topeka:
RANCH CASSEROLE

6-8 medium red potatoes
1/2 cup sour cream
1/2 cup Ranch dressing
1/4 cup cooked & crumbled bacon or bacon bits
1 cup shredded Cheddar cheese

Topping:
1/2 cup shredded cheese
2 cups crushed Corn Flakes
1/4 cup melted butter

Cook potatoes until tender; quarter (leaving skins on) and set aside. Combine sour cream, Ranch dressing, bacon and 1 cup of cheese. Place potatoes in a greased 9-by-13-inch baking dish. Pour sour cream mixture over potatoes and gently toss. Top with 1/2

cup cheese. Combine Corn Flakes and butter and sprinkle over top. Bake at 350 degrees for 40-45 minutes.

Rose Edwards, Stillwater, Oklahoma:
RHUBARB CRUNCH

3 cups diced rhubarb
1 cup sugar
3 tablespoons flour
Topping:

1 cup brown sugar
1 cup old-fashioned oatmeal
1 1/2 cups flour
1/2 cup butter
1/2 cup shortening

Combine rhubarb, sugar and 3 tablespoons of flour. Place in a greased 9-by-13-inch pan. Combine brown sugar, oats and flour; cut in butter and shortening until crumbly. Sprinkle over rhubarb mixture. Bake at 375 degrees for 40 minutes. Serve with whipped cream.

Simple Changes Can Make A Big Difference On A Grocery Budget

By Emily Halstead, K-State Research & Extension news service

MANHATTAN — Grocery shopping is something everyone has to do, but there are many ways to get the job done. Kansas State University food scientist Karen Blakeslee says a few sensible ideas can help consumers save money on their grocery bill.

"Shop your pantry, refrigerator and freezer before you go to the store," Blakeslee said. "Then make a list of needed items; or even better, make a weekly meal plan and stick to it."

Then, Blakeslee says,

grab a snack before hitting the aisles.

"Don't shop on an empty stomach," she said. "That tempts you to make impulse buys and can add to your bill."

Another money-saving idea: buy alternatives to the brand names. Blakeslee said store brands often taste just as good, or they have premium products that are very similar to the name brand items.

"Have you ever tried a blind taste test to compare?" Blakeslee said. "You may find your family will not even notice a difference."

Blakeslee said reducing food waste will also eventu-

ally save money on groceries. Some tips include:

* Stretch meat with plant proteins. Adding beans to meat-based soup or casseroles can help make meat last longer and add beneficial nutrition.

* Store fruits and vegetables properly and use them in a timely manner.

* Ripe fruit can be used in other ways such as smoothies, cobblers, quick bread and crisps.

* Only shop in bulk when it is necessary and the most affordable option. Checking the unit price of an item can help in deciding when to buy in bulk.

"Shop alone and stay focused," Blakeslee said. "Include others in creating

the shopping list, help them make choices, and help them learn about costs to become better shoppers."

Blakeslee, who is also coordinator of K-State's Rapid Response Center for Food Science, publishes a monthly newsletter called You Asked It! that provides numerous tips on food safety. More information is also available from local extension offices in Kansas.

Links used in this story: K-State Rapid Response Center for Food Science, www.rrc.k-state.edu

You Asked It! (newsletter), www.rrc.k-state.edu/newsletter K-State Research and Extension statewide offices, <https://www.ksre.k-state.edu/about/statewide-locations.html>

Summer's a great time for a road trip!

You might just find the perfect father's day gift!



Don't forget us for your gift baskets!
We Ship Fudge DAILY!



Carry out only for lunch Elsiegraces1.com

Elsie Grace's

123 N. Kansas Ave., Frankfort, KS
785-292-4438 • Follow us on Facebook!

Hours:

Mon.-Fri.: 9am-5pm
Saturday: 1pm-3pm

Need Senior Insurance?

- * Medicare Supplement
- * Long Term Care
- * Final Expense



800-373-9559
PHILLIPS INSURANCE
Jim - The Answer Man!

Building Solutions You Can Trust



Pre-Engineered Wood Frame Metal Buildings
Check us out online
or
Call us today for a FREE ESTIMATE!
Your Building. Your Dream. Your Way.

K-Construction Inc.
Alta Vista, KS
785-499-5296
www.kcon.build

COPIES OF GRASS & GRAIN Now In TOPEKA and CLAY CENTER

Brickhouse Antiques; - TOPEKA, KS
- 3711 SW Burlingame Rd. (just off I-470) -



The Feed Shed
Clay Center, KS
- 318 Lincoln Ave. -

The Store;
Leonardville, KS
- 104 E Barton Rd. -

Dara's Fast Lane;
Manhattan, KS
- 5321 Tuttle Creek Blvd. -
- 8811 US-24 -
- 1132 Pillsbury Dr. -

Copies are also available at these businesses:

Bluestem Farm & Ranch; 2611 W. HWY 50 - Emporia, KS

Pioneer Farm & Ranch; 427 NE 14th - Abilene, KS

Or stop by the Grass & Grain office:

- 1531 Yuma St., Manhattan, KS -

Office Hours: Mon.-Fri., 8:30 am-4 pm

Prize for JUNE 2022 "Our Daily Bread" Recipe Contest Prize

ROSEMARY MINT GOAT MILK SOAP
From 14 Hands Ranch * Leonardville, KS



This gentle hand-cut Rosemary Mint Goat Milk Soap is handcrafted on 14 Hands Ranch. Soap bars are long-lasting and produce a nice, creamy, rich lather. Bar is approximately 3.5-4 ounces.

Ingredients: Goat milk, lye, coconut oil, olive oil, lard, essential oils.

14 Hands Ranch: www.14handsranchks.com

The winner each week is selected from the recipes printed. Send us your favorite recipe. It may be a main dish, leftover, salad, side dish, dessert, or what-have-you.
1. Check your recipe carefully to make certain all ingredients are accurate and instructions are clear. 2. Be sure your name, address and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery.

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



Kyle and I have officially lived together for a month now and neither of us have ran for the hills. There have been trying moments, but for the most part things have been good. Max (my cat) has made himself right at home showing his nervous behavior of vomiting almost daily for the first few weeks. I think he was convinced I was leaving him and not going to come home. Once he accepted that I am still coming home every night, he is back to his chatty self, following me around everywhere.

Mia (my other cat) also settled in quickly; eagerly trying to prove that she was not afraid of the spray bottle and that it was indeed necessary for her to get on the very top of the cabinets, the table and the counters. She also has made it known to Kyle when she wants to play and will find him and lead him to her toy box and insist that he play with her.

Kyle and I are finding our routine and navigating life together. I get up quite a bit earlier than him; having an hour drive into work and then getting home quite a bit later than him. To ensure some quality time together, we try to go for a nightly walk around the neighborhood and we have also spent a lot of time trying new recipes.

So far, we have tried a ranch pork chop and potato recipe that we both really enjoyed. There was also a chicken recipe that had chicken stuffing in it, we both thought it needed some tweaking to make it perfect, but it has some potential. We both love my hamburger casserole, something I grew up eating. Last night we tried another new recipe that we loved, a chicken broccoli divan recipe. The only thing about it we would have changed would have been that I should have read the recipe all the way through and

ensured that the broccoli was completely thawed out before baking; but you live, and you learn, nothing a little zap in the microwave could not solve.

One month down, a lifetime to go and I can happily say I am excited to see where it goes. I am excited to see the life Kyle and I create and all the recipes that are sure to be tried along the way.

CHICKEN BROCCOLI DIVAN

Campbell's Soup Recipe

4 cups fresh or (thawed) frozen broccoli florets
2 cups cubed cooked chicken
10.5-ounce can condensed cream of chicken soup
1/3 cup milk
1/2 cup shredded Cheddar cheese
2 tablespoons plain dry bread crumbs

1 tablespoon butter, melted
Preheat oven to 400 degrees. The website calls for this to be made in a pie plate, but I made it in a square glass pan.

Layer the broccoli and chicken in the bottom of the pan. In a bowl stir the soup and milk. Pour that mixture over the broccoli and chicken. Sprinkle with cheese (I used closer to a cup of cheese).

Stir the bread crumbs and the melted butter together. Sprinkle over the cheese. Bake for 20 minutes or until the chicken mixture is hot.

Enjoy.

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

ARRIVING IN KANSAS
MAIL BOXES SINCE 1954...

GRASSANDGRAIN.COM

...ONLINE SINCE 2007.

Mishaps That Might Spoil Your Father's Day Fun

By Cindy Williams, Meadowlark Extension District, Food, Nutrition, Health, and Safety

Falling close to the first days of summer, Father's Day is a day that's frequently celebrated with a barbecue, picnic, or pool party. In preparing for your festivities, you may need to run extension cords for entertainment, cooking, and tidying up around the house before your guests arrive.

All of this means the use of outdoor electrical connections, which you should always undertake with the utmost of caution. To ensure your celebration isn't spoiled by an electrical mishap, follow these safety tips:

Electric grilling: When using an electric grill, avoid using it in the rain or near combustible items. To prevent the risk of electrical shock, plug your grill into a GFCI-protected outlet. Always unplug it before cleaning it and when you're not using it.

Landscaping: Inspect

your electric gardening equipment for frayed cords and damage plug before you use it and make the necessary repairs or replacements. Be sure to keep children a safe distance away when using gardening equipment.

Using Indoor Appliances Outside: When using an extension cord to plug in stereos, appliances and power tools be sure to use a three-pronged grounding plug marked for outdoor use. Never use an extension cord rated for indoor use outside. When using electrical equipment, always work closest to the outlet and then move away, keeping the cord behind you to prevent it from becoming entangled.

Repairs: Some outdoor projects require the use of an aluminum extension ladder, which conducts electricity. Always apply caution when using power tools and standing on an aluminum ladder. When securing loose siding, adding a window box, plant hanger or installing

a light fixture, make sure there is no electrical wiring running behind the wall you're working on before drilling or installing nails or screws. Always plug power tools into a GFCI-protected outlet.

Use a stud finder to confirm that you are not cutting into a stud. There are also voltage detectors that will indicate the presence of live electrical wires. These tools are relatively inexpensive and help you avoid a potentially hazardous accident. If a tool you're using comes in contact with a live wire you could be shocked, burned or worse.

Keeping Children Safe: Keep children away from power tools, mowers, and outdoor electrical appliances. Never let them bring electrical devices near a pool or wet area. Don't allow them to fly a kite during stormy weather or near power lines. If you live near an electrical substation, make sure you teach your children not to play near the area.

Power Out? Prepping, Storing Food Can Be 'Tricky' Food Scientist Shares Tips For Protecting Your Family

By Pat Melgares, K-State Research and Extension news service

MANHATTAN – Kansas State University food scientist Karen Blakeslee says preparing and storing food during a power outage can be "tricky."

"Without a steady power source (such as a generator), food can be temperature-abused, which increases the risk for foodborne illness," said Blakeslee, who also is coordinator of K-State's Rapid Response Center for Food Science.

Foodborne bacteria grows most rapidly between 40 degrees and 140 degrees Fahrenheit, Blakeslee said – doubling in number in as little as 20 minutes. "This temperature range is often called the 'Temperature Danger Zone,'" she said.

When power fails, "refrigerated and frozen food warms or thaws and can allow potential bacteria to grow and multiply," Blakeslee said.

"Without power, the options are limited to cook food indoors," she said. "A fireplace can be used with wood or gas to grill food, or you can wrap food in foil in the fireplace."

However, if using a fireplace, she cautions: "Do not use charcoal in the fireplace because it can emit carbon monoxide. Be sure the fireplace flue is open during use. Otherwise, use foods you don't have to cook or keep cold. Only prepare enough food for one meal so that you don't have leftovers."

Meat products must be cooked to the proper internal temperature to assure safety. The food safety recommendations include:

- * 145 F for steaks, chops and roasts.
- * 160 F for ground meat.
- * 165 F for all poultry

Blakeslee urges consumers to consider stocking up on non-perishable foods and disposable utensils for an emergency. Some examples of foods to include are peanut butter, canned meats, whole grain chips or crackers, canned fruit, canned fruit and dried fruit. "And don't forget pet food for your family's pets," she said.

"For canned foods, the pop top cans are easy to open," Blakeslee said. "Otherwise, be sure to have a (non-electric) can opener available. These foods can be portable in case you need to relocate during an emergency. Single serve items – such as fruit cups and pudding – are easy foods to store for an emergency."

Once canned goods are opened, they must be used, especially canned meats, fruits and vegetables. "Without refrigeration, the leftovers can not be stored for later use," Blakeslee said.

She also reminded consumers of one of the most basic food safety steps: Wash your hands.

"If running water is not available, disposable wipes or hand sanitizers can be used. Pack some extra bottles of water and soap in your emergency kit."

Blakeslee publishes a monthly newsletter called You Asked It! that provides numerous tips on food safety. More information is also available from local Extension offices in Kansas.

Safety During A Power Outage

Kansas State University food scientist Karen Blakeslee urges safety first when preparing for possible power outages this spring and summer:

* If using a gas appliance or grill, be sure to use it in a well-ventilated area. Carbon monoxide poisoning can be an unfortunate outcome.

* If you own a generator, keep it well maintained. Check weather forecasts so it can be ready to go in case of an outage.

Blakeslee emphasized the importance of food safety.

"With any questionable food, be smart. When in doubt, throw it out."

Links used in this story: K-State Rapid Response Center for Food Science, www.rrc.k-state.edu

You Asked It! (newsletter), www.rrc.k-state.edu/newsletter

K-State Research and Extension statewide offices, <https://www.ksre.k-state.edu/about/statewide-locations.html>



By Kelsey Pagel

Enjoy Your Dash

Matt and I, like thousands of other people, decided to jump on the CDL bandwagon before the laws changed in February. It has been one of those things that we always intended to do, but was really easy to put off. At first I didn't even consider it because I was sure I wouldn't be able to pass the tests. With large amounts of studying, we have passed the tests. But because we waited till the last minute like several other people, the pre-trip inspection and drive testing was scheduled several months out.

You might think that would give us an ample amount of time to prepare our truck to be worthy of inspection and to study the truck and components to pass the pre-trip with flying colors. You know how this story goes. We test on Thursday. I finally whined loud enough about a week ago for him to go through the truck with me.

I've been driving trucks for over half my life at this point. I can get from point A to point B with almost anything. But do you think I know where a water pump is, what it does and whether it is belt or gear driven? Or perhaps what a steering box, tie rod, slack adjuster or pushrod is? The answer has always been, I do not care. However, apparently "they" think that I need to know in order to obtain a CDL.

YouTube to the rescue. We have been watching pre-trip inspection videos and learning all the proper terminology to use. Matt and the other Matt that occasionally works for us, who happens to be a card-carrying CDL holder, went over the truck with me. They showed me all the parts. They explained what they do. When I say Matt, I don't

mean my husband. He has many talents. Teaching is not one of them.

Now I do, in fact, know what and where a water pump is. I know what a crossmember is. I know the difference between a brake chamber, pad and drum. I know how thick the brake lining needs to be. I know how deep the tread needs to be on all the tires (the answer is different based on what tire it is)! I know how to perform a proper brake test.

To say my brain never really wanted this knowledge is an understatement. But here we are. And I now have this knowledge. I have repeatedly joked that I will pass the pre-trip inspection, going over the truck and its parts (what I had no idea how to do until a week ago) and fail the driving test that I have been doing for over 15 years.

Anyway, we go Thursday. Wish us luck! Send us all the good vibes. I'll update you in a couple weeks whether I can officially say we're part of the CDL club!

In other news, it rained! It has been a long time since we've had a good rainy day. It's been raining at night recently instead of during the day. I LOVE rainy days and we had two of them. It was a beautiful, gentle rain that was awesome for the crops and pastures. Our rain gauge isn't the most accurate, but we got somewhere around two inches.

We're finishing out the last of the spring calving group. Of course, the two days it was raining, one cow on each day decided to have her baby close to the pond so they ended up swimming. Guess who got to go swimming with them and push/pull/drag them out of there.

We're fortunate we saved both of them. They took a little work to get baby started eating because of being cold and wet, but both of them are doing great now.

It's a hard time in the world. So many of you have been through several wars, changes in culture and political leaders. You have been through hard times. My mom likes to say we make our own problems, and we do. There aren't easy answers. There are people passionate on both sides of the line. I hope we can remember that it's okay to not agree. It's okay to think differently. That's what makes people great. But it's not okay to not be respectful of those differences and opinions.

You don't know what the person you meet in the checkout line of the grocery store is going through. The guy waiting for parts might not be able to plant because he can't get the part he needs. I have bad days just like the next person, but try to be kind. Try to smile. Try to be a nice human.

With Memorial Day just past, let's remember that freedom is not free and all we have is the dash between two dates on a gravestone. Make sure your dash is filled with more joy than hurt. Even if we live to 102 like my grandma did, it's a short time, folks. Love other humans and this world would be a better place!

Kelsey Pagel is a Kansas farmer. She grew up on a cow/calf and row crop operation and married into another. Kelsey and her Forever (Matt) farm and ranch with his family where they are living their dream and loving most of the moments. She can be found on IG & FB @teampagel.

COUNTRYSIDE ATVs & **REPAIR** **ATVs & MORE!**

2 Full-Time Mechanics On Duty

• **PARTS SALES & SERVICE** •

JEFF O'BRIEN: 620-778-0142

22825 120th Road, St. Paul, KS 66771
countrysideatvrepair@gmail.com

THE WAIT IS OVER!

Volume 7 of the Grass & Grain
"Our Daily Bread" cookbook is finally here!!

NEW!

Clips from "Our Daily Bread"

Grass & Grain Recipe Collection Volume 7

Picking up where we left off, you can now enjoy a compilation of nearly 80 pages of unique & delicious recipes from "Our Daily Bread" circa 2014, including a few home recipes from the G&G staff!

Stop by and get yours or call in & place a mail order today!

\$15/ea., + \$3 shipping to U.S.

Vol. 1-6 sold out

GRASS & GRAIN

785-539-7558

1531 Yuma St • Manhattan, KS

A Complete Cattle Feeding & Marketing Service

TIFFANY CATTLE CO., INC.

Family Owned & Operated

Tiffany Cattle Company, with a total capacity of 32,000 head, is equipped to offer economies of scale and industry leading service to customers of any size.

Production Services

Objective is simply: Least Cost Per Pound of Gain!

Ration formulation and cost analysis, health program designed and maintained by veterinarian, special pens and attention to sick animals, feed financing and cattle purchasing available.

Marketing Services

Marketing finished cattle is top priority at Tiffany Cattle Company. You have the option of selling on the cash market, forward contracting or grid pricing through multiple Kansas packers.

★ www.tiffanycattle.com ★

Follow us on at Tiffany Cattle Company

Tiffany Cattle Company
1333 S. 2500 Road
Herington, KS 67449
(785) 258-3721

Tiffany Cattle West
758 Pioneer Road
Marquette, KS 67464
(785) 546-2216

Shawn Tiffany - COO (785) 229-2902 shawn@tiffanycattle.com
Shane Tiffany - CEO (785) 466-6529 shane@tiffanycattle.com
Dennis Roddy - CFO (620) 767-2139 dennis@tiffanycattle.com
Tanner Stucky - Asst. Mgr. (620) 214-0979 tanner@tiffanycattle.com

GET YOUR NAME OUT THERE!

Reach YOUR customer base with affordable advertising.

WE CAN BUILD TO YOUR BUDGET!

You can't sell what you don't advertise!

Call today for more info!

GRASS & GRAIN

785-539-7558

WHEAT HARVEST SPECIAL 2022

USDA releases May WASDE report, drought and Ukraine at forefront

USDA recently released its World Agricultural Supply and Demand Estimates (WASDE) report. As noted by USDA, Russia's recent military invasion of Ukraine significantly increased the uncertainty of agriculture supply and demand conditions. USDA

made a historic move in its corn estimates by reducing the trendline from 181 bu. per acre to 177 bu. per acre. This is due to a slow start in planting and progress through mid-May, which will remain behind normal. The 2022 and 2023 U.S. corn out-

look is for lower production, domestic use, export, ending stocks and higher prices. The U.S. corn crop is projected at 14.5 billion bushels, down 4.3 percent from last year. The outlook for wheat is for reduced supplies, exports, domestic use stocks and higher

prices. The U.S. 2022 and 2023 wheat supplies are projected down 3 percent. Price forecast summary for 2022 and 2023 corn is \$6.75/bu. up .85 cents and wheat are \$10.75/bu. up \$3.05/bu. compared to 2021 and 2022.

Beef production has increased since last month

with more cattle placed in feedyards sooner than normally expected due to drought conditions, supporting higher annual fed cattle slaughter. Additionally, cow slaughter is forecast to be higher. For 2023, beef exports are down from 2022 on lower

beef production and higher prices. Beef imports are lower on tight global supplies. For 2023, cattle prices are forecasted above 2022 on tighter supplies. The forecast for 2022 cattle prices was raised based on recent data and tighter expected fed cattle supplies.

Study calculates solid return for investing in agricultural export market development

By Julia Debes

Kansas farmers cultivate more than crops through their checkoff contributions. Spending those dollars cultivating export markets directly benefits wheat growers and the general U.S. economy, according to a new econometric study by IHS Markit and Texas A&M University.

Researchers concluded two export programs — the Market Access Program (MAP) and the Foreign Market Development (FMD) program — added an average of \$9.6 billion per year to export value between 1977 and 2019. That's great news for

Kansas wheat growers, as roughly half of the Kansas wheat crop is exported each year.

"Our work indicated that MAP and FMD have accounted for 13.7% of all the revenue generated by U.S. agricultural exports between 1977 and 2019," said Dr. Gary Williams, one of the lead agricultural economists on the project. "The additional export revenue bolsters the entire U.S. agricultural sector and creates a multiplier effect throughout the U.S. economy."

Investment in export market development starts at the combine. The Kansas Wheat Commission

is funded by a two-cent per bushel, voluntary assessment on each bushel of wheat grown in Kansas and sold to a Kansas grain elevator. The Kansas Wheat Commission uses those funds to invest in agronomic research projects, consumer outreach and supporting agricultural export market development as a contributing member of U.S. Wheat Associates (USW).

Wheat is the most trade-dependent of the major food and feed crops grown in the United States. But individual farming operations cannot effectively market wheat overseas. USW combines funding

from 17 state wheat commission members with federal funding through the MAP and FMD programs to market U.S. wheat, including Kansas hard red winter (HRW), to customers around the world. USW staff and consultants add expertise in how best to use the various classes and qualities of U.S. wheat for end-products from loaves of bread to instant noodles to pasta and more. USW also works to address trade or technical barriers that inhibit the flow of wheat to world markets.

"These export market development programs enable U.S. Wheat Associates to build a critical

reserve of trust and goodwill with our overseas buyers, end-users and influential government officials, as well as key U.S. government agencies and officials," said USW president Vince Peterson. "And there is a clear return on investment — for every dollar spent on export promotion, there is a return of \$24.50 in additional net export revenue — and the return is even higher to the U.S. wheat supply system."

In addition to calculating the value of the MAP and FMD programs, researchers also analyzed the potential impact of the Agricultural Trade Promotion (ATP) program

established by the USDA in 2019.

The ATP program provided \$300 million to cooperating organizations like USW, and, in turn, these groups contributed \$90 million in cash, goods and services. The study's analysis of future expected returns from those investments between 2019 and 2026 predicts that incremental funding for agricultural export market development will provide an excellent return.

Read the study and learn more about the value of U.S. agricultural exports to the farm at www.AgExportsCount.org.

Philippine government uses free trade as deflationary tool

The Philippines recently announced a decision to lower restrictive corn import tariffs on non-ASEAN corn from 35% to five percent.

Executive Order 171 cited the economics of the current world situation driven by the conflict between Russia and Ukraine and corn's pivotal role in more than 50% of the total production cost of large-scale broiler and swine rations for the decision to lower import tariffs on corn.

The Council believes this is a responsible step by the Philippine government as it encounters domestic inflationary pressures.

"The U.S. and Philippines agricultural industries

have enjoyed a strong relationship for a very long time," said USGC President and CEO Ryan LeGrand. "The Council is standing by, ready to help the Philippine government and industry fill in any raw material supply shortage the country is facing. U.S. farmers have an abundant, sustainable corn crop ready to deploy when needed."

The Philippines feed industry relies heavily on feed wheat imports due to its history of high import tariffs on corn outside ASEAN. The recent global wheat supply chain disruptions have had a disproportionately negative impact on Philippine input prices.

"If these tariff reductions stick long term, the Phil-

ippine livestock industry will have a chance to become competitive again with their ASEAN neighbors. When a steady supply of corn is available, the overall demand for corn grows, given corn is still the energy source of choice by many nutritionists," said Caleb Wurth, USGC regional director for Southeast Asia and Oceania.

"This higher demand for corn will also help local corn producers join the global corn market, increasing efficiency and profitability. The Council will be right there with our partners to ensure all parties in the agricultural supply chain equitably participate in this historic move."



**Thank you,
Kansas wheat
farmers!**

**Have a safe
and productive
#wheatharvest22.**



**KANSAS
WHEAT®**

www.kswheat.com



**Investing in the future through
wheat genetics research**

KESTREL DRONE AND MAPPING SOLUTIONS LLC



*Making tough
jobs easier!*

Luco Mfg. Co.







- Hydraulic Chutes
- Working Circles
- Cake Feeders
- Continuous Fencing
- Panels & Gates
- **New double alley now available**

**Box 385,
Strong City, KS 66869**

**Call toll-free:
1-888-816-6707**

**SEE OUR FEATURED SPECIALS AT
WWW.LUCOINC.COM**

Sens. Marshall, Ernst, Grassley, Fischer call on USTR to secure long-term fertilizer trade

U.S. senators Roger Marshall, M.D. (Kan.), Joni Ernst (Iowa), Chuck Grassley (Iowa), and Deb Fischer (Neb.) are continuing their fight for affordable and accessible inputs for

America's farmers, ranchers, and producers. Amid unreliable trade with fertilizer-producing nations like Russia, China, and Belarus, the senators wrote a letter to U.S. Trade

Representative Katherine Tai urging her to focus on meeting the United States' long-term fertilizer needs. The senators wrote, in part,

"We write today to urge

you to develop and begin executing a strategic plan for the long-term stability of fertilizer trade for our farmers and ranchers. Vladimir Putin's war in Ukraine is sparking con-

cerns over famine in Africa and the Middle East. Societies dependent on agriculture are keenly aware of the threat of food insecurity. Big agrarian nations like Brazil are already act-

ing to re-draw global trade routes, especially regarding fertilizer, to ensure the productivity of their nation and address the needs of a starving world. We must do the same."

Government, non-profit, company offer \$2.6 million for covers

A food processing company, government agency and a conservation non-profit are ponying up funds for cover crops, according to a press release.

Archer-Daniels-Midland (ADM) and the USDA's NRCS, the National Fish and Wildlife Foundation (NFWF) announced \$2.6 million in grant awards to help farmers plant cover crops across Illinois, Indiana, Iowa, Kansas, Michigan and Minnesota. Awarded under NFWF's Midwest Cover Crop Initiative, five grants will support implementation of this benefi-

cial agricultural practice on 500,000 acres.

Grants have been awarded to the non-profit groups American Farmland Trust, Ducks Unlimited, the Kansas Association of Conservation Districts, Minnesota Soil Health Coalition and Practical Farmers of Iowa.

NFWF administers the Midwest Cover Crop Initiative to support large-scale, voluntary adoption of cover crops in corn, soybean and wheat systems across the Midwest. Cover crops minimize bare soil, improve soil productivity, store and sequester car-

bon, help prevent runoff and erosion, and improve wildlife habitat associated with agricultural lands.

Farmers who implement cover-crop systems may see improvements in long-term profitability through reduced input costs and higher yields. By accelerating the adoption of this practice, the grants announced today will help enhance soil health, reduce atmospheric greenhouse gases, improve water resources, and support wildlife while providing economic benefits to participating farmers.

The recipient organiza-

tions will provide farmers with technical assistance to help navigate the various agronomic and social factors that can impede cover crop adoption. They will work closely with farmers to plan and implement approaches for individual farmers.

The five grant recipients will also help farmers enroll in public and private programs designed to defray costs and minimize financial risk associated with practice adoption. Grant recipients will work to increase participation in established Farm Bill cost-share programs man-

aged by NRCS, such as the Environmental Quality Incentives Program.

In addition, they will coordinate enrollment in a new private incentive program, under which ADM will commit \$20 million over the next four years in support of participating farmers. By providing an opportunity to stack these new private payments with more-traditional public financial assistance, the Midwest Cover Crop Initiative increases the financial resources available to farmers and further incentivizes broad practice adop-

tion.

Altogether, the five grant recipient organizations will develop voluntary agreements with an estimated 1,800 farmers. Analyses of environmental and economic outcomes at the farm level will help these farmers assess the benefits associated with cover crops and make informed decisions about future implementation. In addition, aggregating results across farms will help identify key findings that can be shared with the broader agricultural community.

BIO endorses the framework for responsible use of gene editing in ag

The Coalition for Responsible Gene Editing in Agriculture recently announced that the Biotechnology Innovation Organization (BIO) has formally shown its support for the Framework for Responsible Use of Gene Editing in Agriculture.

BIO represents 1,000 members in a biotech ecosystem with a central mission to advance public policy that supports a wide range of companies and academic research centers that are working to apply biology and technology in the energy, agriculture, manufacturing and health sectors to improve the lives of people and the health of the planet.

"BIO believes that innovation flourishes when science and consumer values are aligned and complement one another," said Sarah Gallo, vice president, agriculture and environment. "This framework establishes a process to examine meaningful criteria in an objective, predictable and consistent way — characteristics that are important to technology developers, as well as stakeholders looking to endorse innovation in product development."

Other industry leaders, including Cargill Inc., Costco

Wholesale, FMI – The Food Industry Association, Genus PLC, PepsiCo and Tropic Biosciences, have publicly endorsed the Framework, acknowledging the value it provides to consumers and stakeholders throughout the agricultural and food supply chains.

"The Coalition appreciates the continued support from BIO and other agriculture and food industry leaders who share our commitment to transparency and open dialogue to build trust in gene editing technology," said Charlie Arnot, chief executive officer of The Center for Food Integrity (CFI), the organization that administers the Coalition for Responsible Gene Editing in Agriculture.

"Gene editing has tremendous potential to benefit our entire food production system from the farmer to the consumer," he said. "These benefits will only be realized if consumers trust that the resulting products are safe and understand how using gene editing technology helps achieve goals that align with broader social goals like producing the food we need with less environmental impact and reducing pests and disease in crops and livestock. The Framework is one tool organizations can

use to earn trust with food industry stakeholders and consumers."

The Framework was developed by a multi-stakeholder coalition that included representatives from food companies, academia, civil society, technology developers, farmers and related associations. It outlines a set of principles and commitments that organizations voluntarily follow to demonstrate their willingness to be transparent about their use of gene editing and desired outcomes that benefit the food system, environment and society as a whole.

Companies, businesses, academic or government organizations that use gene editing or its outputs in food or agriculture are invited to join the Coalition and adopt the Framework. To download the Framework, visit geneediting.foodintegrity.org/responsible-use-guidelines/download-framework.

The Coalition was formed by The Center for Food Integrity to support global understanding and acceptance of the responsible use of gene editing technology in the food system. To learn more about the Coalition, visit geneediting.foodintegrity.org.

Control volunteer corn to prevent losses

By David Hallauer, Meadowlark Extension District crops, soils and horticulture agent

A 2017 study out of South Dakota looks at the yield losses caused by the presence of volunteer corn in soybean fields. Their work showed losses of eight to nine percent when the density of that volunteer corn was one plant

per ten square feet. Not much – but still a loss.

If we think about how densities are often greater in certain areas of the field, we can see from their work a density of one plant per square foot resulted in losses around 70 percent. All of a sudden, a weed potentially difficult to control in soybeans because of its resistance to glypho-

sate and/or glufosinate is causing significant yield losses. When coupled with knowledge tank mixes containing 2,4-D or dicamba may reduce effectiveness the Group 2 herbicides (clethodim or quizalofop), and suddenly a seemingly easy 'fix', becomes more difficult.

With most of our corn crop planted, POST appli-

cations are our most viable option. Start by making sure all clethodim applications done in combination with glyphosate and 2,4-D or glyphosate and dicamba are done in combination with a fully loaded surfactant. Work out of both Indiana and Canada suggest losses of 60 percent (2,4-D plus glyphosate) to 75 percent (dicamba plus glypho-

sate) when fully loaded surfactants were not used with these combinations. North Dakota work suggests adding a high surfactant oil concentrate to help with volunteer corn applications containing clethodim and glyphosate (neither NIS or AMS improved control). In addition to the use of a more aggressive adjuvant, con-

trol reductions can also be minimized by increasing the rate of the Group 2 herbicide to the maximum labelled rate.

For more detailed information, see the 2022 KSU Chemical Weed Control Guide, available at District Offices or online at: <https://bookstore.ksre.ksu.edu/pubs/SRP1169.pdf>.

Five Kansas students earn Youth In Ag Scholarships

Five Kansas students have been awarded Kansas Livestock Foundation (KLF) Youth in Agriculture \$1,000 Scholarships. Aidan Yoho from Yates Center will be a freshman at Allen Community College studying meat science. He is the son of Quentin and Hollie Yoho. Four students re-

ceiving scholarships will be freshmen at Kansas State University this fall. Lauren Aust of LaCygne is the daughter of Brad and Janell Aust. She will major in agricultural business and agricultural communications and journalism. Korben Clawson from Meade will study agricultural economics

and animal sciences and industry. He is the son of Dan and Tamra Clawson. James DeRouchey of Wamego is the son of Joel and Julene DeRouchey. He will study agricultural business this fall. Weston Schrader of Wells is the son of Spencer and Laci Schrader. He plans to major in animal sci-

ences and industry.

Youth in Agriculture Scholarships are funded by the Kansas Livestock Foundation (KLF) Club Calf Sale held each year in conjunction with the Kansas Junior Livestock Show in Hutchinson. This year's KLF sale will be October 1.

U.S. beef rebounding in the Middle East

As pandemic restrictions ease, U.S. beef is seeing new growth in the Middle East through grocery sampling, features of U.S. beef cuts in restaurants and hotels, and a surge in e-commerce. Bassam BouSaleh, the U.S. Meat Export Federation representative in the Middle East, says the region's grocers are allowing food sampling and tasting demos again, conducted with support from USDA and the Beef Checkoff Program, which are important for U.S. beef sales.

"During the COVID time, sampling in the retail sector was not allowed," says BouSaleh. "But now, the government, they're giving us special permission to do it again. The chef is allowed to do live cooking and do a tasting for U.S. beef cuts. Customers like such demonstration because they taste U.S. beef properly prepared, and they can ask questions to chefs and communicate with them the proper cooking tips and methods."



HOFFMAN BROTHERS

WELDING AND FABRICATION
405 CENTRAL, HOYT, KS 66440

785.986.6310 • www.hoffmanbrotherswelding.com

<p>CONTINUOUS PANELS</p> <p>4 BAR 14 GA. 20"x4' Tall\$125</p> <p>5 BAR 14 GA. 20"x4' Tall\$135</p> <p>6 BAR 14 GA. 20"x4' Tall\$145</p> <p>7 BAR 14 GA. 20"x4'9" Tall\$165</p> <p>CALL FOR \$5 ON HEAVY DUTY CONT. PANELS</p>	<p>HD STEEL FEED BUNKS</p> <p>20' PIPE BUNK, OPEN END 24"\$519.00</p> <p>20' PIPE BUNK, CLOSED END 24" ..\$569.00</p> <p>20' PIPE BUNK, 24" w/NECK RAIL ..\$789.00</p> <p>20' PIPE BUNK, 24" w/HEAD FENCE \$899.00</p>
--	---

ALSO IN STOCK - CALL FOR MORE INFO:
Free Standing Panels; Gates for Free Standing Panels (Multiple Sizes);
Bale Spears & Unrollers; Portable Corral Panels; Feed Bunks & Panels

DISTRIBUTORS

WOHLGEMUTH EQUIP.	TRIPLE S RANCH SUPPLY
Atchison, KS • 913-370-1245	El Dorado, KS • 316-321-7514
B&D AG ENTERPRISES	HOFFMAN FARMS
Savannah, MO • 816-344-9381	Friend, NE • 402-947-3901

A \$10 AD can sell a \$10,000 ITEM!

2004 WILSON STOCK trailer,
20', aluminum floor, rollup back
door, well maintained. \$10,000.
785-539-XXXX

14-word classified ad, \$9.80 per week.
Discounts available on prepaid multi-week ads.

GRASS & GRAIN Classifieds
Effective. Inexpensive.

785-539-7558 • grassandgrain.com

Best service in the industry. Very knowledgeable and helpful. Will definitely be buying from here again Eric E., Wisconsin



HERRS
MACHINE

HYDROSTATICS






Hydraulic Pumps,
Motors and Hydrostatic
Transmissions for
Combines, Skid Steers,
Cement Trucks, Swathers,
Sprayers Feed Mixers,
and Mud Hog Wheel
Motor Systems

785-325-2875

www.herrshydro.com

Located in Washington, Kansas





Hollywood and the Houlihan

Old John was the manager when I came to work on the Tailgate in 1987. He'd been here for 22 years, and had no regrets. That spoke volumes, and I figured it was a place to put down roots, in spite of being able to see the night glow of Kansas City to the east.

John was the last of the old school cowboys that I ever knew and worked with. He told his stories in such a manner that that you might think he was talking to his grandchildren; softly, even-toned, with an easy Texas drawl, and a cigarette between his fingers, which

would leave a slight trail of smoke as he moved his hand about, gesturing now and again for emphasis. And a heavy smoker he was, too. A short ride in his pickup truck taxiing me to and fro could get me a nicotine fix as I squinted to see through his blurry, tar-stained windshield.

But his stories were classic, and he had a ton of 'em! His favorite catch phrase was, "I'm tellin' you rat..." (Texan for "right"), and he'd go into a story. He told about starting out sleeping on the ground under the chuck wagon on roundups on the "Buckle L" down around Childress,

Texas. He worked ranches in the Panhandle area, served a stint in the Navy during WW2, and cowboied in Colorado, where he once watched over a herd of cattle the ranch had contracted to Republic Pictures in making the film *The Outcast*. This was one of my personal favorites because he got to meet one of my all-time favorite actors, Slim Pickens.

John stayed with the cattle, sleeping in a wagon on location, in a box canyon and said that by morning the cattle would be working their way up out of the canyon looking for graze. Slim would saddle up at daybreak and help him push the cattle back down so the herd would be bunched up for the day's filming takes.

Slim Pickens was a real hand, according to John, and a top-notch horseman, which he ably demonstrated in one scene where he was to gallop into an apparent cattle rustling attempt, rifle at his should-

er, firing as he came in, when Slim's mount stumbled and was about to go down until he dropped his hand to pick up the rein, leaning back in the saddle, pulled the horse's head up, allowing it to get balanced again, and went ahead and finished the action scene, never missing a beat. John was duly impressed, and if John was impressed by someone, it was well earned! He did, however, express his disappointment in his favorite childhood "B-Western" actor, Bob Steele, and noted a level of contempt for the star of the film, John Derek. He described Derek's entourage as obviously "paid" aides, while Slim's larger crowd was all volunteer, just because he was a "genuine hand" with a magnetic personality.

John also met John Wayne at the actor's 26 Bar Ranch in Arizona, on a Hereford bull buying trip, where Wayne's sense of humor led him to personally sidekick John in

the butt, lifting him off the ground. That's all I know about that story, and probably the highlight of the trip for John.

Hollywood aside, old John was the best hand with a rope I've ever seen, and I only saw him dismounted involuntarily one time, as the big gelding he was riding at about 80 years of age jumped over a small ridge of dirt that John didn't see coming.

But I never saw John miss throwing his Houlihan loop. Most guys I've ever ridden with rope with the typical overhead swing, which is noisy, and scary to cattle; I myself, not a good roper by any means, have to swing at least two or more times to get enough inertia to carry my rope to the cow, and by that time the cow is moving away from me. Only one other hand that I've known used the Houlihan besides John. Even so, it was John's own version of it, kind of a side-delivered backhanded overhand

thing, released on the first swing, and he invariably flipped that loop onto a cow so quick, neither the cow nor the horse ever saw or heard the rope; it was just caught instantly. And he tied on, hard and fast, despising the dally, and his rope was short.

I've had the privilege of riding with some good hands during my career. But John was the handiest of them all. He passed away in 2014 at the ripe age of 89, and the locals here still miss him. He was a legend in these parts. I'll tell you more about him, and a few other fellas I've bumped stirrups with over the years, in some future stories.

Kirk Sours is a ranch manager in northeast Kansas, shaped and molded by the Kansas prairie since the age of eight. His major hobby is writing commentary, short biographical stories, and he is active in the community. Email him at: sours.kirk@yahoo.com.

Rural grocers from across U.S. to meet in Wichita June 20-21

No one will argue that food is one of human's most basic needs.

And yet, across rural America, many grocery stores routinely are scratching and clawing their way to survival.

"It is a very tough business," said Erica Blair, a program manager for K-State Research and Extension's Rural Grocery Initiative, which was formed in 2007 to support the viability of grocery stores in rural areas.

Blair notes that rural grocers fill a void in areas where affordable, quality food is hard to find, often known as food deserts.

"Rural grocers," she said, "play an enormous role in addressing food deserts. They are a critical source of affordable, healthy food. Grocery stores can provide healthy foods at a more affordable price than their convenience store counterparts."

K-State's Rural Grocery Initiative is bringing together grocers from across the United States when it presents the National Rural Grocery Summit in Wichita on June 20-21. The Summit is held every other year; due to the COVID-19 pandemic, this will be the first year it's been held in person since 2018.

"One of the things that I have heard grocers say that they enjoy is hearing success stories of other grocery owners," said Blair, noting that the Summit will include participants from California to New York, and many points in between.

"The issues that rural grocers face in Kansas, are the issues that rural grocers face in rural communities across the country," she said. "The Summit is a chance to learn from each other and make connections, as well. Grocers are able to speak with other grocers who know

what they're going through and what their challenges are. They have a shared understanding."

Blair said the agenda includes sessions on alternative ownership models (such as cooperatives); forming partnerships; business transition planning; and funding opportunities.

Among the keynote topics, she added, is a look at a pilot project in North Dakota in which three grocers, a restaurant and a community development organization have joined forces to purchase foods at wholesale prices.

The full agenda is available online.

"Grocery stores are anchor institutions for the community," Blair said. "They provide many economic benefits to the community; a source of jobs, contributing to the tax base and circulating dollars in the community."

She adds: "What happens when the grocery store closes? It affects other businesses in the town, as well. If you lose your local grocery store, more people are going to be traveling outside of town to get their food - that's a fundamental need - and when they're going outside of town, they're probably going to be picking up other items, as well."

"It has that effect on other local businesses, and it has that effect on attracting new residents. It's harder to attract residents when you don't have a grocery store."

More information on how K-State is supporting rural grocery owners is available online from the K-State Research and Extension Rural Grocery Initiative.

Hare-Raisers: Kansas youth bunny up to 4-H project

By Pat Melgares, K-State Research and Extension news service

For many, raising rab-

bits seems like a simple gig: Put some food out, clean the cage and enjoy the furry snuggles.

But for more than 1,000 Kansas 4-H youth who participate in the annual rabbit project, it's a bit more involved.

"It's a year-round project," said Briony Smith, a 4-H Youth Development agent in Butler County. "Typically, these youth

don't sell their animals at the county fair; they are taking those animals home to use during the next year's project."

In fact, Smith adds, often the work multiplies - quickly. The 4-H rabbit project includes not only maintenance and care for the first rabbit, but also breeding and care for her litter.

"When the litter is

weaned, youth begin to learn about breeding traits so they can select which one's to keep for their own projects; which one's might be better for other 4-H members' projects; and which one's are best suited as pets," Smith said.

Within six to eight months of owning their first rabbit - that is, once the first litter arrives - youth in the project get hands-on experience in selecting animals for production, and creating their own bloodline.

"Second year 4-H members typically have their own animals to show out of their own breeding line," Smith said.

At county and state fairs, Smith said youth don't show their animals in a ring as is common with larger animals.

"It's more of a conversation with a judge," she said. "(The youth) takes the rabbit to a table then goes through an examination of the animal, much as a judge would do. They must explain the parts of the rabbit - including the eyes, ears, nose, tails, tail and feet - and explain what they look for when they decide whether a rabbit is of high enough quality for a show."

"There is quite a bit of knowledge that is needed to be successful, as well as developing public presentation skills."

Smith said youth from Butler, Sedgwick, Kingman and Harvey counties are currently working together in the rabbit project, meeting monthly to challenge each other on their current knowledge about rabbits.

More information on the 4-H rabbit project, or on any of nearly three dozen projects offered in Kansas, is available online. Interested persons can also contact their local Extension office.

Place your Classified Ad ONLINE today at: **GRASS & GRAIN**
grassandgrain.com

Malone Hereford Farm

Alton / Marie

Bull Power with Body and Butt

Good Selection Of 15-18 Month Old Bulls

Mostly Canadian Breeding



Semen Checked - All Shots - Many 1/2 & 3/4 Brothers
View The Bulls At The Ranch Anytime

1371 Road F, Emporia, KS 66801
620-794-2358, 620-342-7538

Other Bulls Available From:
Lane Jeanneret • Olpe, KS - 620-341-0860

UPCOMING SPECIAL ISSUES

County Fair Issue - July 5th

Ag Finance - August 9th

Kansas State Fair Issue - August 30th

Fall Harvest (4-week series) - September 6th

Fall Full of Bullz - September 13th

G&G Farm & Ranch Show - November 1st

Soil Health - November 8th

DEADLINES:

County Fair issue - June 29th, before Noon

Ag Finance - August 3rd, before Noon

Kansas State Fair - August 24th, before Noon

Fall Harvest - August 31st, before Noon

Fall Full of Bulls - September 7th, before Noon

G&G Farm & Ranch Show - Oct. 26th, before Noon

Soil Health - November 2nd, before Noon

To advertise in these or future special issues, contact your GRASS & GRAIN sales rep:



Donna Sullivan
- Managing Editor -
gandgeditor@agpress.com
Office: 785-539-7558



Josie Bulk
- Sales Representative -
josie@agpress.com
Office: 785-539-7558

TOY AUCTION * Beatrice, Nebraska

SATURDAY, JUNE 11, 2022 — 10:00 AM

LOCATION: 1000 W. Court St., Gage County Fairgrounds, BEATRICE, NEBRASKA

NORM & KAREN MORTENSEN, SELLERS
35 years of collecting new & used toys, some NIB, some refurbished!

(233) CATALOGED TOY ITEMS
(14) BOX GRAIN WAGONS - (83) VARIOUS SCALE SEMI TRACTORS & TRAILERS
(41) BELT BUCKLES - (130) SMALL SCALE TRACTORS & IMPLEMENTS
OMAHA STOCK YARD BULLET PENCILS & SO MUCH MORE!

NORM MORTENSEN * 402-876-5461

AUCTION NOTE: Auction will be conducted with a cataloged listing. Seating, lunch and restrooms available. You will find spacious parking adjacent to the air-conditioned building.

Auction Contacts:
www.beatrice77.net (Click On: The Auctioneers) (Pictures)
Dennis Henrichs 402-239-8741 or Ryan Sommerhalder 402-335-7937
Email: sales@beatrice77.net

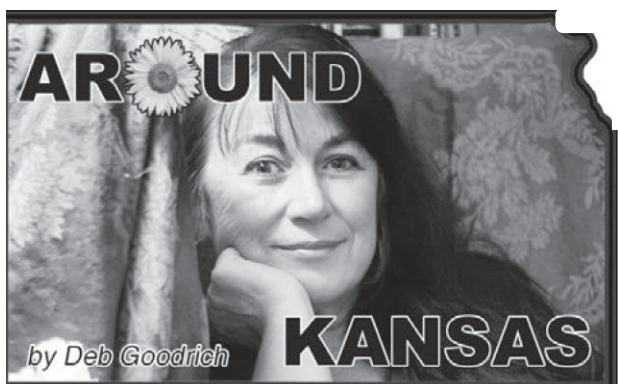
THE AUCTIONEERS * Beatrice, Nebraska
Rick Jurgens 402-520-0350
Dennis Henrichs 402-239-8741
Gale Hardin 402-520-2911
Ryan Sommerhalder 402-335-7937
THE AUCTIONEERS FOR COMPLETE AUCTION SERVICE!

*** POST FRAME BUILDINGS**
*** SLAB HOMES**

WE BUILD YOUR DREAMS!

Your Satisfaction Is Our #1 Goal

www.yutzyconstruction.com



Tucked in amongst my earliest memories are visiting Mountain View Cemetery with Granny. We walked up the long hill, up the dirt road past the tobacco barns and the old apple trees, the lone pear tree, past the row of cousins' mailboxes clumped together for the convenience of the mailman. As the church came into view, so did the mountains –

Willis Gap and Groundhog to our north, Fancy Gap to the west, Pilot Mountain to the south.

Three identical stones were the heart of the graveyard, literally and figuratively. They were the original markers, that of Granny's brother, Eldridge, who "died a homesick soldier boy on December 25, 1917 at Camp Lee, Virginia," and her mother

and daddy.

Granny told me they had all gathered around the table for Christmas dinner when the word came that Eldridge had passed that morning.

Granny told me stories of all these people as we tended their graves, pink rambling roses on her mother's, peonies on the others. Her mother had set aside the land for a church and a graveyard when Eldridge died with the stipulation that all her descendants had the right to be buried there. In just five years' time, she lay beside her son, her stone of the same shape and design. And when my great-grandfather passed in 1935, he, too, was laid to rest beside them. Aunt Lou Em, Granny's oldest sister, wrote the words on the markers, original I thought as a

child, but I have seen the same sentiment on hundreds of markers since:

Sleep Mother dear and take thy rest, God called thee home, He thought it best...

Not original, perhaps, but heartfelt nonetheless. This is where my love of history was fostered and nurtured. I understood that these beloved were as real as I, that their lives had been real, that they had been real. It is a simple but profound truth and the one that lies at the core of understanding the past, or any other time.

I have been home for two weeks now and my sister and I have ridden countless backroads, some familiar, some new discoveries, and the more I search my ancestors, the more familiar they become, the more I real-

ize they were with me all along.

It rained those first few days, downpours, gully-washers. Then the sun came out and the smell and feel of the damp earth surrounded me like an old, familiar blanket, dotted with white and pink and green (The ivy has begun to bloom white and pink – the thickets were our playhouses when we were children. Now, people are more proper and call it mountain laurel, but old people never said that. The word laurel was reserved for rhododendron, and as a frustrated forestry agent told me once, "These mountain people refuse to call anything a rhododendron!")

There have been family reunions and it seems odd to see old faces reflecting old faces long

gone, decades gone. The faces and the features repeat over and over, like the ivy blooms each season, different, but coming from the same roots and ground.

We are off in search of another forgotten cemetery today, across the mountain in the meadows and hollows so well-known to us, but that we will see with new eyes, realizing our connections to the ground, to the spirits whose stories are carried on the smoke of abandoned chimneys.

Deb Goodrich is the co-host of the Around Kansas TV show, with Michelle Martin. She is the Garvey Texas Historian in Residence of the Fort Wallace Museum and the chair of the Santa Fe Trail 200. Contact her at author.debgoodrich@gmail.com.

Can a tick bite really cause an allergy to meat?

By Taylor Jamison, K-State Research and Extension news service

When warmer temperatures come, so do many species of biting ticks. Many people take precautions to prevent bites to them and their animals, but of particular concern is a species of tick that Kansas harbors: the Lone Star tick.

Kansas State University food scientist Karen Blakeslee says a bite from the Lone Star tick can cause a rare allergy – called an Alpha-gal allergy – when infected humans consume red meat and other food products.

The Lone Star tick is distinguished by the white dot in the center of its body. Though more common in the South, the Lone Star tick once was found only in eastern Kansas, but recently also has been found in western Kansas. Ticks are active through the months of April through September.

"The Alpha-gal molecule is carried in the saliva of the Lone Star tick," Blakeslee said. "People bit by this tick can become sensitive and produce the immunoglobulin E (IgE) antibody. Unlike typical food allergies, which is a reaction to protein, this

is a reaction to a specific grouping of two carbohydrates, galactose-1.3-galactose, a disaccharide found in most mammals."

Blakeslee listed the types of foods that may trigger an allergic reaction:

- Any red meat such as pork, beef, rabbit, lamb or venison.
- Other mammal products such as gelatin, cow's milk and milk products.
- Some medications that use mammal-derived gelatins, glycerin, magnesium stearate or bovine extract.

Blakeslee said fish,

seafood, eggs, fruits, vegetables, or poultry are not known to cause a reaction.

Allergy symptoms may appear up to three to eight hours after consuming a reactive food. Blakeslee said the symptoms include rash, hives, difficulty breathing, drop in blood pressure, dizziness, fainting, nausea and severe stomach pain. These symptoms can be life-threatening; seek medical care immediately.

Although rare, Blakeslee said the Alpha-gal allergy can develop in people of any age and is usually permanent.

"The allergy is man-

aged with antihistamines, corticosteroids, or other medications," Blakeslee said. "Every person reacts differently, and it may be possible to slowly reintroduce red meat foods after a long period of time."

To avoid being bitten by the Lone Star tick, she suggests observing precautions similar for any tick species.

"When outdoors, use insect repellent for ticks and always check your clothing for ticks," Blakeslee said. "When home, take a shower and perform a thorough check for ticks. You are more at risk when you've had multiple tick bites."

For more resources on the Lone Star tick and the Alpha-gal allergy, K-State's Veterinary Diagnostic Laboratory offers information on the tick, and the CDC offers information on the Alpha-gal allergy.

Blakeslee, who is also coordinator of K-State's Rapid Response Center for Food Science, publishes a monthly newsletter called You Asked It!; the June issue included a short story about the Alpha-gal allergy.

More information is also available from local Extension offices in Kansas.

Composting improves the environment and home garden

Composting is a simple way to keep the home garden healthy while also helping the environment, but there is a certain art to doing it right, said Dennis Patton, a horticulture agent in K-State Research and Extension's Johnson County office.

"The science is making sure the composting process works," he said, "and the art part of it is figuring out what works for you."

Patton said compost can be any dead plant or animal matter, but don't be fooled by the definition.

"We put dead stuff in the compost, but the compost is very much alive," he said.

Within the compost pile, there are live microorganisms that feed off dead matter. Managing the microorganisms is the key to composting, Patton said.

Patton said compost consists of a mixture of

green and brown matter, both of which are key to making the microorganisms "happy."

Brown matter is the source of carbon, and the bulk of what gardeners use in the compost pile; it includes dead leaves and other garden waste. Green matter is the source of nitrogen and somewhat harder to find; it can be grass clippings, vegetable and fruit scraps and animal manure.

Patton recommends about two-thirds brown matter to one-third green matter.

Some materials should not be used in compost, he said. Pet feces – especially cat and dog feces – should not be used. Nor should food waste that contains fats or oils.

Also, grass, hay or manure from a pasture that uses herbicides should not be added to the pile. Pat-

ton said these materials can all taint the compost and damage plants.

Once safe materials are available for compost, Patton said there is not really a bad location for the pile, but he suggests avoiding a low area that will collect water – which can cause a bad smell.

To maintain the compost pile, Patton suggests watching for the development of heat within a week to ten days of its initial construction. "If the compost pile is properly constructed, that internal part of the pile should be

reaching up to 140 degrees Fahrenheit or more."

Once the pile begins to cool down, it is time to turn the materials, a process that distributes moisture. Eventually, the pile will heat up again, then turned when it cools.

Patton said it may take between three to six months to form compost, but he adds, "The more you leave it in the back corner and leave it up to Mother Nature, it may take a year or more until you have compost."

K-State Research and Extension offers several

online resources on composting. Additional information or questions can

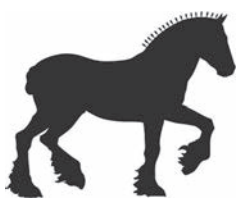
be directed to your local K-State Research and Extension office.

FARM TEAM COMPETITION

— June 18, 2022 @ 11:00 A.M. —

1.5 miles North of Lyndon, KS • FREE ADMISSION

- CLASSES: Log Pull
Cultivator Race
Obstacle Course
Feed Team Race
Team Barrel Race




For Info Call: 785-256-3430
OR: 785-528-3275

Wooden Cross

... the cattle business ...

Cattle Company



Charolais Bulls For Sale Private Treaty

- > Moderate, easy doing and powerful
- > Calving ease on all sire groups
- > Longevity
- > Closed herd adds consistency to your calf crop
- > Raised rough to be tough in a ranch environment
- > Large number to choose from
- > All bulls are registered with full performance and EPD data
- > All bulls are reasonably priced

Wooden Cross Cattle Company
557 190th Road, Hillsboro, KS 67063
Merle: 620-381-1712 • Chase: 620-877-7237
woodencross@fhrd.net
www.woodencrosscattleco.com

grassandgrain.com

SAVE THE DATE

— FOR THE —

2022 GRASS & GRAIN

FARM AND RANCH SHOW

November 8, 9, 10
2022

Located at the National Guard Armory
Manhattan, KS

FREE Parking & Admission!

Find us on Facebook:
@GGFarmShow





(800) 369-3882

www.toplinebuildings.com
sales@toplinebuildings.com

STEEL BUILDING INVENTORY SALE

I-Beam Construction
Easy Bolt-Up Design

40x65 • 60x90 • 100x150 • Many Others Available

AUCTION

SATURDAY, JUNE 11, 2022 — 1:00 PM

Open for VIEWING at 10:00 AM

SALE LOCATION: At The Downunder Ballroom, 121 W. South, BELOIT, KANSAS. ½ Block West of Mill Street.

COINS Sell at 1 PM: Vol 1, 2, 3, 4 Bradford Exchange Lincoln Bicentennial Coin Collection; Vol 1, 2 Postal Commemorative Society Statehood Quarters Albums; Vol 1, 2 US Presidents One Dollar Coin Collection through Ronald Reagan; Morgan Silver Dollar Album 1878-1921 (19 coins); US Commemorative Gallery Book of Coins, (10 Coins); Vol 1, 2 United States Statehood Quarters From Sea to Shining Sea; Franklin Halves 48-63 in Album, (16 Coins); 3 wood boxes of Colorized \$2 Dollar Bills National Parks (28 bills per box, plus 6 extra); 11 Fifty State Commemorative Quarters Collector Books 1999-2008; US COMMEMORATIVE GALLERY Framed "150 Years of America's Most Famous Coins" (29 Coins); AMERICAN MINT BANK NOTES OF US. 2 George Washington, 2 Abraham Lincoln, Alexander Hamilton, 2 Andrew Jackson, Ulysses L Grant, 2 Benjamin Franklin, Statue of Liberty; Silver Half Dollars 1985, 87, 90, 2000, 02, 03, 04, 05, 06; US Territory Quarter Coaster Set (6 coasters with coins); 3 State Quarter frames one missing 4, one missing 10, 1 empty; LINCOLN CENTS: (2)1909, 1918, 1919, 1919S, 1920, 1923, 1924, 1925, 1925S, 1926, 1926D, 1927, 1928, 1928D, (2)1929D, (2)1930D, 1934D, 1935, 1935D, 1936D, 1939S, (2)1955S.

MEDALLIONS: Animals (Cat & Dog) 4 Mr Fisherman; 5 SIGNATURE MODEL CARS sell following Coins: 1917 REO Touring, 1936 Chrysler Air Flow, 1956 Chrysler Imperial, 1930 Packard LeBaron, 1936 Pontiac DeLuxe; DANBURY MINT SYMBOLS OF AMERICA, MODEL BUILDINGS: Twin Towers, Jefferson Memorial, Marine Corp War Memorial, US Capital Building, White House, Ellis Island, Statue of Liberty, Lincoln Memorial, Supreme Court, NIB; 2 JIM NELSON PAINTINGS SELLS at 2 PM; Indian Settlement at Fort Pile in 1868, near Denmark KS. In Lincoln County; First Buffalo Roped; 1833-1933 A CENTURY OF PROGRESS 5 CENT PINBALL MACHINE; 15 MANTLE & KITCHEN CLOCKS; OAK WALL TELEPHONE.

TOYS (sell following Jim Nelson Painting): Ertl Longhorn Ranch Playset, 17 Tonka Toys inc.: Dump Trucks, High Loaders, Pallet Loader, Pickup, Cranes, 2 Jeeps; Fisher Price Rescue Truck; Fisher Price Child's Cook Stove & Utensils; Fisher Price toys; Nylint Semi Truck; Pickup & Trailer; Yard Boss Train Set w/track, NIB; IHC M Toy Tractor; M-H Toy Tractor; Hot Wheels & Matchbook Cars, over 100; 1986 Toronado, NIB; New Box of 1991 Race Car Cards; 100 Spec Cards; 10 Beast Cards; 4 Mustang Hub Caps. Collections of MARBLES & CARDS: Over 200 Marbles; 100 baseball cards; 160 Super Bowl cards YXV; 26 Quarterback Challenge cards; 8 new decks of playing cards; 12 pocket knives; Kennedy bank; Seth Thomas alarm clock; wall thermometer; Tasco 7x15 right angle binoculars; Focal Zoom telescope 15x to 45x 40; brass postal door mounted; 2 brass hand weights; brass desk weight; 30 paper weights; 19 pcs of sterling silver; several silverplate pcs; wood dresser box; Howard Miller brass clock; brass cannon; brass stamp holder; 3 bulb brass lamp; brass candle holders; brass apple; Torch Is Passed book; NSA Starter Ship NIB; 6 record albums; Beam china bottle Antique Trader, 1968; 4 metal bbq plates; Disneyland mug; electric doll lamp; puzzles; paperback books; car & repair books; pictures; Beer signs; Taylor floor scales; Beginner's Luck plate, signed; 2 printer's boards; 3 tennis rackets; 2 carpenter's folding rulers; Butter Girl plate; Horse Pulling Stone Wheel in Trough picture; Folk Songs & Famous Pictures for Piano Beginners by Mary Bacon Mason; 12 volt red flashing light; asst. of key chains; 2 electric lamps; Tennants Lager pitcher; weather vane; Mangus electric table organ; propane cigarette lighter; 5 pl. setting of Duralux Amethyst purple swirl dishes; cherry pitter; blue car light lens; 2 tin snips; cast iron skillet; set of small golf clubs; Presidents plates; asst of story books & records; 10 pcs of sheet music; print of two WWII airplanes—Flack Bait & Detroit Miss; Remington Quiet Riter manual typewriter in case; asst of flower pots; Look & Life magazines; (10) 12" rulers; Texaco oil can & rubber pad; 2 green wire lid fruit jars; chandeliers; ornate oak ¾ secretary w/glass doors; Pioneer Spirit book; TRW Car Parts lighted sign; horse clock; wood chicken crate; metal parts pool holder; sadd iron; wire turkey w/eggs; Wildlife Series knives; washboards; coffee grinder; ceramic Christmas tree; crock butter churn lids; miniature cast iron cook stove; Carnival glass; Milk Glass; Los Angeles trike; wood beer & whiskey crates; Canada Dry wood crate; Roseville & Hull Pottery; Fenton glass; Tung-Sol Auto Lamp display case; HY Speed wheelbarrow; display cabinet.

THESE ITEMS FROM 2 LOCAL COLLECTORS:
WATTS & VERHAGE

See website for pictures: www.zauction-palace.com

Auction conducted by: GERALD ZIMMER AUCTION & REAL ESTATE
AUCTIONEER: Gerald Zimmer, Beloit, KS 67420
(785) 738-2010 (office) • (785) 738-2133 (residence)
(785) 738-8677 (cell) * email us at gzare@nckcn.com

KFB's Vote FBF endorses Mann, LaTurner and Estes for re-election to U.S. House

The farmers and ranchers of the state's leading agriculture advocacy organization today announced their endorsements for three incumbents in the U.S. House races for Reps. of Tracey Mann in Kansas' 1st District, Jake LaTurner for the 2nd District and Ron Estes for the 4th District.

The formal endorsements came from Kansas Farm Bureau's (KFB) political action committee, Voters Organized to Elect Farm Bureau Friends (VOTE FBF), comprised of active farmer/rancher members elected by their peers from each of KFB's ten geographic districts.

The KFB endorsement process began earlier this year with individual recommendations from the autonomous county Farm Bureau organizations. The 60 counties that comprise the 1st U.S. House District, the 26 counties that

make up Kansas' 2nd U.S. House district and the 17 counties that comprise the 4th District provided district-level feedback to VOTE FBF.

There were clear majorities from county Farm Bureau organizations in support of the incumbents.

"Rep. Tracey Mann has been an outstanding Congressman for the Big First District in his initial term," Rich Felts, president of KFB says. "His deep understanding of rural Kansas and our short- and long-term challenges and opportunities means he will continue to serve his constituents and agriculture well.

"As a sixth-generation Kansan, Rep. Jake LaTurner has an innate feel for the meaning and importance of agriculture and the family farm," Felts adds. "Jake has gained invaluable experience in moving and shaping

public policy during his first term in Washington, D.C."

"During his time on the Hill, Congressman Ron Estes has proven himself to be a genuine friend of the farmer, especially on the Ways and Means Committee where he's worked to open doors for agricultural trade," says Felts. "Ron Estes' brand of leadership continues to gain him respect and influence, as shown by robust grassroots support from county Farm Bureau organizations in south-central Kansas."

Kansas Farm Bureau's VOTE FBF fund was established in 1993 to elect candidates who understand agriculture and advocate on its behalf. Since its inception, endorsed candidates have won their respective elections in more than 90 percent of races. To learn more about VOTE FBF, visit www.kfb.org/voteffb.

Kaitlyn Hildebrand Joins River Valley Extension District

By Wade Reh, director and community vitality agent, River Valley Extension District

We are pleased to announce that Kaitlyn Hildebrand has joined the staff of K-State Research and Extension-River Valley District as our Livestock Production Extension Agent. Her first day was May 16, 2022, in our Concordia office.

Hildebrand earned

both her bachelor's degree in Animal Sciences and Industry and her master's degree in Agricultural Education from Kansas State University.

As a youth, Kaitlyn was active in both 4-H and FFA and also spent time as an at-large director for the Illinois Junior Beef Association.

While earning her associate's degree at Illinois Central Community College and bachelor's degree at K-State, Kaitlyn participated on each institution's livestock judging team. She was also a part of K-State's meat evaluation team and a member of numerous agriculture-related clubs.

In addition to finishing her teaching for her education degree, Kaitlyn has recently been employed as a student worker for the K-State Rabies Laboratory in Manhattan, and worked on her family's farm in Ohio, Ill.

Livestock Production agents develop and deliver educational programs re-

lated to livestock production. Programming may include but is not limited to: breed and species selection and management, nutrition, livestock facilities, animal identification, marketing, best management practices, and sustainable production techniques.

River Valley District has offices in Belleville,

Clay Center, Concordia, and Washington. Hildebrand's primary office is in Concordia and she can be contacted at 785-243-8185 or via email at khildebrand@ksu.edu.

More information about K-State Research and Extension River Valley District is available online at rivervalley.k-state.edu.

Water, shade help prevent heat stress in cattle

This is the time of year when cattle producers need to pay extra attention to heat stress in their operations, says University of Missouri Extension beef specialist Eric Bailey.

Unlike many other animals, cattle can't rid their bodies of heat by sweating. Instead, they pant. Heat-stressed cattle show symptoms such as open-mouth breathing, slobbering and restlessness, Bailey says. Chronic heat stress leads to long-term problems such as decreased fertility and weight gain.

Breathing rate is a good indicator of heat stress in cattle, he says. Producers should be alert when respiration rates range from 90-110 breaths per minute. Rates of 110-130 breaths per minute indicate a dangerous level of stress. At 130 breaths per minute or

above, producers should take emergency measures.

It is not just high daytime temperatures that create risks, Bailey adds. Overnight temperatures above 70 F create stress. Fermenting feed in the rumen also generates heat. Cattle can restrict critical airflow when they bunch up to reduce the amount of skin exposed to biting flies.

Producers should also keep humidity in mind when making decisions. In high humidity, heat stress can occur when temperatures reach the 80s.

"The thermometer does not have to scream 'Uncle' at you before we have a severe heat stress event," Bailey says. Cattle can adjust to elevated temperatures and humidity, but abrupt shifts in temperature and even seasonal changes can bring on heat stress.

It takes six hours for

cattle to cool down after a heat stress event, he added. Cattle body temperatures peak two hours after the highest daytime temperatures.

Less obvious reasons for heat stress occurring include changes in watering source or location, Bailey says.

Reducing heat stress

- Water. Allow two to three inches of linear head space for water. Bunk space for water is critical to preventing heat stress. Check water pressure to make sure tanks can keep full. This is especially important if cattle group together.

- Sprinklers. Use sprinklers to gently wet down animals. Avoid cold water shock. Do not mist the air to cool the animal; the mist will not get through the coat to reach the skin.

- Water source. Make sure the cattle are familiar with the type and location

of the water source. Provide adequate water and space for cattle to drink.

- Shade. Bailey suggests looking online for shade structures to purchase or build yourself. You also can move animals to natural shade areas. Bailey recommends 20-40 square feet of shade per head. Shade cloth should be at least eight feet off the ground for sufficient airflow. Orient shade either east-west or north-south. With an east-west orientation, the ground stays cooler but becomes muddy. North-south structures let shade move across the ground throughout the day.

- Cattle handling. Don't work cattle during high temperatures. Work in early morning. Don't let them stand more than 30 minutes in processing areas. Cattle in confined areas face more stress. Also, cattle eating tall fescue infected with toxic en-

dophyte are particularly susceptible to heat stress during handling, says MU Extension forage specialist Craig Roberts. If it all possible, avoid handling cattle during periods of high temperature and humidity, Roberts says.

For more information Eric Bailey shares tips on managing heat stress in beef cattle in a recording of the May 12 MU Extension Forage and Livestock Town Hall at youtu.be/LF-PanhLO_PM.

Videos on many forage and livestock topics are available on the MU Extension Integrated Pest Management YouTube channel at youtube.com/c/MUIPM.

The MU Extension publication "Hot Weather Livestock Stress" (G2099) is available free online at extension.missouri.edu/g2099.

supply chain. More information on the MPILP and all programs aimed at increasing processing capacity can be found at usda.gov/meat.

\$25 million is being invested in workforce training programs for meat and poultry processors. These funds will be distributed through USDA's National Institute of Food and Agriculture. There are two opportunities for funding under this program: Extension risk management education and community/technical college expanded learning.

USDA also issued a new report detailing the department's strategy for promoting fair and competitive markets. First, USDA plans to complete a top-to-bottom review of its programs to ensure they promote competition. Second, USDA will update guidance to strengthen the verification requirements for the most widely used "animal-raising claims" to ensure consumers are getting what they are paying for. This could include action on the Product of the USA label petition supported by NCBA, but it is unclear what specific programs USDA may be targeting.

PUBLIC AUCTION
SATURDAY,
JUNE 18, 2022 * 9:30 AM

6457 E 194th Terrace
OVERBROOK, KS 66524

TRACTORS & ATTACHMENTS,
(Tractors sell at 11:00 AM)

LAWN MOWERS,
4-WHEELER/TRAILER,
HAND & AIR TOOLS,
LAWN-GARDEN, MISC.
HOME ITEMS, GUNS,
APPLIANCES
& many other items not listed!

SELLERS:
FEE & CINDY
MONSHIZADEH

ALTIC AUCTION SERVICE
785-893-4315
Auctioneers: Brady Altic
& Lester Edgcomb

Pictures online at:
www.kansasauctions.net

LAND AUCTION
154+/- Acres of Butler County Pasture
TUESDAY, JUNE 14, 2022 - 6:00 PM

AUCTION LOCATION: The Burns Community Center,
301 N. Washington Ave., BURNS, KANSAS 66840

We are honored to represent the Lathrop Hunter Family in the sale of this clean Native Bluestem and mixed grass quarter. Located between Burns and Elbing, there are a lot of things to like about this 154-acre pasture! It has been in the Lathrop Hunter Family since 1910 and you will see that it has been well managed over the years. There is a good stand of clean grass, good fence, good access and is watered by a windmill and a wet draw. This pasture is ready to start working for you. Take a look at this great opportunity to add to your existing operation or to invest in quality land! We look forward to seeing you at the auction! (BRIEF LEGAL: SE/4 in S15-T23-R04E)

See website for full listing & photos at GriffinRealEstateAuction.com

GRIFFIN
Real Estate & Auction

Phone: 620-273-6421 Fax: 620-273-6425

305 Broadway, Cottonwood Falls, KS 66845
griffinrealestateauction@gmail.com

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

In Office: Heidi Maggard,
Linda Campbell

LARGE ESTATE AUCTION
SATURDAY, JUNE 18, 2022 * 9:00 AM * Lunch on Grounds

Located from the Jct. of Hwy. 24 and Hwy. 63 in St. Marys, KS, take Hwy. 63 North 3 miles to the Delia Rd., then 1 mile East on the North side to 28775 Delia Road, ST. MARYS, KS 66536
SALE ORDER: 9:00 AM: Shop Tools followed by Antique Hand Tools.
AUCTION RING #2 - 9:30 AM: Kitchenware, Glassware, Collectibles, Antique Furniture

***** 2 RINGS ALL DAY! *****

SHOP TOOLS, LIVESTOCK EQUIPMENT & FARM MISC.
Craftsman radial arm saw, Craftsman table saw, 3 1/2" metal band saw; Delta drill press on stand; Co-op space heater; manual tire changing machine w/ all attachments; lots of assorted wrenches & electric power tools; many new bolts of all types; 4 Handyman jacks; 2 good-sized chain hoists; motor stand; wood & metal bolt bins; chain boomers & chains; several ladders; sickle sharpener; sledge hammers; many electric fence insulators of all types; 3 good poly bottom feed bunks; good round bale feeder; several metal gates; electric motor pump jack; Onan gas-powered 400 watt generator; 16-gal. Craftsman wet & dry vac; several heavy-built counter cabinets plus 6 New wooden 4'x8' tables with 3/4" tops, very good; power steering unit for M-Farmall; Spraymate double poly tank ATV sprayer.

SALVAGE ITEMS
American Crane Co. Crane w/60' boom & dragline bucket w/4 cylinder GMC motor, not running; 1960 Ford Galaxie 4-door car w/AT & 352 V-8 motor; 1950 Chevy Deluxe 4-door car w/3 speed & 6 cylinder motor; E-Z Go 3-wheel gas-powered golf cart, not running, shedded; NF-M Farmall tractor w/4 sp. M-W transmission, parts tractor.

ANTIQUE TOOLS, PARTS & PRIMITIVES
Very good IHC electric & hand crank cream separator, complete w/all parts; several old auto head lamps; old automotive items; 5 good old oil jars; iron wheels; old apple cider press pieces; 2 IHC lister seed boxes; good old push garden plow; draw knives; metal buggy steps; many old wrenches inc. Monkey wrenches; several old kerosene lanterns, good; auger bits & hand braces; buck saw; large 1-man crosscut saws; ice tongs; harness riveter; harness harnes (some are brass knobs); old harness metal pieces; set of harness; neck yokes & collar; old fuel containers; old metal buckets; platform scale; old hand feed sack truck; 3 blow torches; cow kickers; old wooden & iron pulleys; 7 old hay knives; hay hooks; lead ladles; lots of long handled tools in good shape; old metal grease & feed buckets; old brush hook axes; Maytag wringer washer; many galvanized wash tubs; old Radio Flyer 4-wheel wagon; 3 child sleds; cardboard baby chick carrier, good; many wooden bushel baskets.

ANTIQUE FURNITURE & COLLECTIBLES
Old pie safe cabinet; very old china cabinet; kitchen cupboard bottom w/flour bin; old screen door & 2 other wood & glass doors, good; old roll top desk w/straight back chair; old hanging mirrors; several antique tables; nice old wooden bed w/dresser; several old chests, dressers, wooden trunks & large wooden boxes; very good flat top trunk; old pattern back straight back chairs; several floor lamps; very old baby buggy; several old toys inc. General Lee car, 5020 JD tractor, other toy machinery, old dolls, etc.; old games; old cigar boxes & cigar tubes; 1986 Gund Limited Edition collectors bear; many Little Golden children's books in good condition; several kerosene lamps; several old metal thermometers; lots of old silverware & kitchen utensils; old salt & peppers inc. Aunt Jimema & Uncle Ben; assorted glassware & lots of china of all types; many old cups & glasses; old pop bottles; old glass milk bottles inc. Pigg Bros. Dairy; many good milk bottle caps; old marbles; clothes wash boards; clothes stomper; old metal bird cage; shoe stretchers; old 4-qt. & 2-qt. glass butter churns; cheese box press; cloth flour & feed sacks; old metal kitchen cabinets; old curved glass china hutch tops; tobacco tins; other old tins; pocket knives; old 12 ga. single shot shotgun, wall pieces; 2 BB guns; enamel pans; cast iron skillet; old state road maps; old time cookware; electric American meat slicer; several good old butcher knives; 2 old meat cleavers; several old light fixtures; Avon bottle collection (4 boxes full); crib-type baby bed; old metal hamper; 7 large boxes of vinyl records, 33s & 45s; piano bench; old iron beds (some w/brass knobs); (7) 1- & 2-gal. brown top crock jugs; (1) 5-gal. brown top crock jug; several crock jars; straight razor; folding rulers; large pressure cooker; sad irons; bee smoker; meat grinder; old electric irons; copper boilers; 2 old tricycles; several cream cans.

Household Furniture, Appliances & Kitchenwares: Including a very nice Lane cedar chest, electric lift chair w/high back, good shape & many more household & furniture items!

MISC. ITEMS & LUMBER
Including (150) 1x6"x8" rough cut yellow pine boards & more!

SELLER: JIM & HENRIETTA AUBERT ESTATE

AUCTIONEER'S NOTE: Many Quality Collectible items. A VERY LARGE offering. Auction starts at 9 AM with the 2nd ring to start selling at 9:30. COME EARLY & Bring a Friend! SELLING 2 RINGS ALL DAY!

For Sale Bill & Photos go to: www.ClineRealtyandAuction.com

Terms: Cash or Valid Check. Not Responsible for Accidents or Theft. Statements made sale day take precedence over printed material.

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

Onaga, KS • 785-889-4775 • John E. Cline, Broker/Auctioneer, 785-532-8381
Austin Cline, Auctioneer, 785-565-3246 • Tyson Miller, Auctioneer, 785-564-0532

USDA announces planned actions on market competition and packer capacity

In concert with U.S. Agriculture Secretary Tom Vilsack's recent appearance before the Senate Agriculture Committee, USDA issued a press release outlining a series of actions being taken at the Agency on marketing and processing capacity matters.

The Office of Management and Budget has completed review of a

proposed rule to address transparency in poultry grower contracting and tournaments, as well as a pre-rule relative to fairness in poultry growing tournament systems. While this action will not directly impact the cattle industry, it is the first of several agricultural competition rulemakings expected this year. The others, which will certainly impact cattle producers, are expected to roll back the "harm to competition" standard and revise the criteria for determining "undue and unreasonable preferences or advantages" in violation of the Packers and Stock-

yards Act. NCBA will continue to monitor and engage in opposition to these future rulemaking efforts.

\$200 million is being made available under the newly created Meat and Poultry Intermediary Lending Program (MPILP) to provide grant funding to intermediary lenders who finance - or plan to finance - the start-up, expansion, or operation of slaughter, or other processing of meat and poultry. The objective of the MPILP is to strengthen the financing capacity for independent meat processors, and to create a more resilient, diverse and secure U.S. food

REAL ESTATE AUCTION
WEDNESDAY, JUNE 15, 2022 — 6:00 PM

Offering for sale at Public Auction, located at 47 22nd Ave., MOUNDRIDGE, KANSAS

LEGAL DESCRIPTION: Part of the N 1/2 of the SE 1/4 of 34-21-2W, 21.98 acres more or less, McPherson County Kansas. The property is improved with a 2005 Four Seasons manufactured home with 1,834 sq. ft., 3 bedroom, 2 bath, heat pump & central air & appliances. Property has a nice location on black top road, well water, lagoon, 40x60 horse barn with stalls, feed room & one bedroom apartment. Land consists of Brome hay land, pens & outbuildings. *Attend this Auction prepared to BID & BUY!!*

FRANK BARNETT, SELLER

VAN SCHMIDT • Auctioneer/Real Estate
7833 N. Spencer Road, Newton, KS 67114
620-367-3800 or 620-345-6879
www.hillsborofrepress.com
Schmidt Clerks & Cashiers
Farmers National Company (402) 496-3276

TERMS: Statements made day of sale take precedence over advertised statements.

AUCTION
SATURDAY, JUNE 18, 2022 — 10:00 AM

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

STERLING, OLD FIESTA, SWORDS, RADIOS
Hundreds of fine sterling silver pieces: tea sets, coffee sets, serving pieces, serving knives & forks, serving spoons & ladles, creamer & sugar sets, pitchers, vases, centerpieces, trays, ornate dishes, nut & candy bowls, fruit bowls, serving bowls, flatware, salt & pepper sets, salt cellar spoons, figurines & sawns, brushes, spoon sets, dinner knife sets, sets of forks, souvenirs, utensils, ornately handled dishes, baskets, tea strainers, toothpick holders, tongs, candleholders, candleabras, candlesticks, ornaments, collectible commemorative plates, English sterling rose w/ provenance; **much antique sterling inc:** 1830 English tea set; 1779 George III bed chamber candlestick w/snuffer; Tiffany; Gorham; Wallace; Reed & Barton; A. Jager 800 German; Mexican sterling set; Lunt; Towle & others; **Old Fiesta** dinner & salad plates, tumblers all sizes, salt & peppers, covered mustard pots, fruit bowls, covered bowls, **many stick handle pieces inc:** coffee pots, creamers, cups w/ saucers, tea pots, carafes, stick demitasse cup w/saucer, many other; Fenton vases; Roseville; Hull & Hunt vases; Hall & 1949 Dryden pitchers; other dishes; pottery; some native American; Swords several inc: 36" w/ etched blade & glided handle; 36" sword w/black wood handle & etched blade & sheath; fancy etched sword w/sheath; Cavalry sword w/sheath; officers sword w/etched blade & sheath; 10" US bolo knife w/sheath; Bound Gun Reports from 1955; other gun periodicals; **200+ Radios;** transistor radios; Victorlas; typewriters; sewing machines; Philco TV w/built-in HI-FI; Army mess kits; copper boiler; pocket watches; many tools; **many other antiques.**

NOTE: Another of Chuck Smith's collections. This is a very large auction. Check our website for pictures at www.thummelauction.com

CHARLIE "CHUCK" SMITH ESTATE
Auction Conducted By: **THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067**

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

June 7 — Live & Online auction consisting of 90+ guns, ammo, gun safes, classic, modern & rare; handguns, rifles, shotguns inc. Winchester, Browning, Ruger, Henry, Remington, Beretta, S&W, Sig Sauer, Glock, Savage & more; also knives, Polaris Ranger, boat, kayaks, mower, travel bags held live at Benton (online go to www.Sundgren.com). Auctioneers: Sundgren Auction & Realty.

June 11 — Coins inc. Bradford Exchange Lincoln Bicentennial coin collection, US Presidents \$1 coin collection, Morgan silver dollar album, Franklin halves, silver dollars & more, medallions, 5 Signature Model cars, Danbury Mint Symbols of America, Model Buildings, 2 Jim Nelson paintings, 1833-1933 A Century of Progress 5-cent pinball machine, clocks, toys, marbles & collector cards, lots of other antiques & collectibles, glassware held at Beloit for 2 local collectors (Watts & Verhage). Auctioneers: Gerald Zimmer Auction & Real Estate.

June 11 — Tracts inc. 1972 JD 401 industrial tractor, 2012 JD 3720 tractor, IHC W-6 restored, JD Gator ATV, collectible vehicles inc. 1966 Ford Mustang convertible, 1948 Jeep station wagon, 1979 Ford F-250 pickup, 2007 Cadillac Escalade & more; trailers & camper, farm implements, shop & other items held near Wallace (Wichita/Logan Co. line) for The Late Guy Bolen & Marlene Bolen. Auctioneers: Berning Auction, Inc.

June 11 — Large toy auction with 233 cataloged toy items including 14 box grain wagons, 83 various scale semi tractors & trailers, 41 belt buckles, 130 small scale tractors & implements, Omaha Stock Yard Bullet pencils & much more held at Beatrice, Nebraska for Norm & Karen Mortensen. Auctioneers: Jurgens, Henrichs, Hardin, Sommerhalder.

June 11 — Coin auction with over 400 lots inc. Peace \$, Morgans, mint & proof sets, Roosevelt dime collection, nickels, large cents, Barbers & much more held at Por-

tis. Auctioneers: Wolters Auction & Realty.

June 11 — Real Estate consisting of 5 lots in the City of Bentley with 2BR 1 1/2BA home. Personal property including furniture, household, shop & lawn equipment held at Bentley for Virgil & Peggy Baxter. Auctioneers: Van Schmidt Auction, Farmers National Co.

June 11 — Tools, tractors inc. 8N Ford, 1952 Ford 8N, Farmall Int. wf 400, mowers, 1998 Chevy 1500 4WD pickup, 1993 Club Car gas golf cart, household, Bernina Simplicity Serger Pro, lots of collectibles, K-State items, large Wizard of Oz Collection, primitives & more held near Randolph for Dave & Janet Vinduska. Auctioneers: Olmsted & Sandstrom.

June 11 — WD Allis tractors, old machinery, scrap iron, tools & miscellaneous held North of Talmage for Roy & Regina Travelute. Auctioneers: Kretz Auction Service.

June 14 — Geary County Land auction consisting of a contiguous 660-acre production tract primarily made up of pasture, excellent fences, good water available, 67 ac. bottom broke ground & more held at Manhattan. Auctioneers: Crossroads Real Estate & Auction, LLC.

June 14 — 154 acres m/l of Butler County pasture consisting of clean Native Bluestem & mixed grass quarter, fence, water & more held at Burns for the Lathrop Hunter Family. Auctioneers: Griffin Real Estate & Auction.

June 15 — Real Estate consisting of 21.98 acres m/l McPherson County land with 3BR, 2BA manufactured home, horse barn with stalls, feed room & 1BR apartment, brome hay land, pens & outbuildings held at Moundridge for Frank Barnett. Auctioneers: Van Schmidt, Farmers National Company.

June 16 — 6.84 acres m/l Building Site in Lyon County, located just outside the city limits, minimal gravel, electricity, water meter & great views held at Emporia for Emporia Community Foundation. Also selling: JD 4020 w/GB loader & 1991 Chevy 3500 pickup. Auctioneers: Griffin Real Estate & Auction.

June 18 — 3 Restored JD tractors and Oliver Cletrac, Avery A, lawn mowers, shop tools & much more held at Vassar for the Late Leonard Elmore, Virginia Elmore, seller. Auctioneers: Wischropp Auctions.

June 18 — EZ-Go Golf Carts, Cushman Minute Mizer 3-wheel truckster, 2022 GMC Sierra pickup, Easy-Haul car trailer & Kar-Tote, forklift, Honda scooter, guns, riding

lawn mower, shop equipment, trailer & equipment, parts, accessories & misc., household held at Beatrice, Nebraska for Drewel's Used Cars & EZ-Go Liquidation, Kenny & Debbie Drewel. Auctioneers: Jurgens, Henrichs, Hardin & Sommerhalder.

June 18 — Mowers including riding mowers, Cushman mini truck (project), 8N Ford tractor, construction equipment & tools, construction supplies, farm equipment & supplies, trailer & miscellaneous held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

June 18 — Large Estate auction consisting of lots of Antiques & Collectibles, Crocks, Shop tools & more held North of St. Marys for Jim & Henrietta Aubert Estate. Auctioneers: Cline Realty & Auction, LLC.

June 18 — Farm & Ranch auction consisting of 2014 625 JD Gator, 1961 Chevy Viking 6D truck, trailers, Gehl 2500 skid steer, large wind turbine, farm & livestock equipment, tools & miscellaneous held at Council Grove for Vicki & the Late Norman Triemer. Auctioneers: J&D Auction Service, LLC., Jase Hubert & Dwayne Coble.

June 18 — Yanmar YM2310D tractor, Ford 1500 tractor, finish mower, rotary mower, NH MZ19H zero-turn mower, JD LA145 mower, Craftsman LTS mower, Honda Recon ES 4-wheeler, bumper pull trailer, hand & air tools, lawn & garden, household, guns, appliances & more held at Overbrook for Fee & Cindy Monshizadeh. Auctioneers: Altie Auction Service, Brady Altie & Lester Edgecomb.

June 18 — Collector trucks, tractor, trailer, stagecoach, equipment, tools, collectibles & much miscellaneous held at rural Lawrence for Gut Works, LLC, Ron Renz & Steve Craig. Auctioneers: Elston Auctions.

June 18 — Hundred of fine sterling silver pieces, many antique sterling items, Old Fiestaware, many stick handle pieces, Fenton, Roseville, Hull, swords, 200+ radios, many tools & lots more antiques held at Salina for Charlie "Chuck" Smith Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

June 20 — (Monday evening) Selling clean household items, glass, vintage, patio furniture, lots of smalls, etc. held at Lyndon for Mrs. Elizabeth Dean. Auctioneers: Wischropp Auctions.

June 24 & 25 — 2-day auction: Day 1 (Friday)

selling Guns inc. pistols, rifles & more, coins, jewelry, fishing items; Day 2 (Saturday) selling 2004 Chevy Colorado Z71 pickup, 2010 Buick Enclave CXL, 2005 Kubota 4WD side by side, mowers, furniture, household, tools, large collection of glassware & collectibles held at Belleville for Terance & Joleen Baxa Estates. Auctioneers: Thummel Real Estate & Auction, LLC.

June 25 — Large assortment of vintage collectibles, trading cards, some belt buckles, 100+ Angel collection, comic books, furniture & much, much more held at Emporia for Two Area Sellers. Auctioneers: Wischropp Auctions & Flint Hills Auctions.

June 25 (Day 1) — (Day 2 will be held July 9): Selling Collectibles, antique furniture, books, household, fishing equipment, glassware, records, cast iron items & more held at Lucas for Carol A. Blackwell Estate. Auctioneers: Foundation Realty, Morgan Riat.

June 25 — Very large Farm Estate Auction including tractors, trailers, equipment, livestock equipment, UTV, hay equipment, tools, zero turn mower, collectibles, household & miscellaneous held at rural Shawnee for Maurice H. & Mary VanLerberg Estate. (Some items available for online bidding at www.FloryAndAssociates.com). Auctioneers: Elston Auctions, Mark Elston, Jason Flory, Chris Paxton.

June 28 — Pottawatomie County Land Auction consisting of Tract 1: 35 acres m/l; Tract 2: 36 acres m/l; Tract 3: 80 acres m/l; Tract 4: T1, T2 & T3 combined. Country seclusion less than a mile East of Hwy. 99. Held at Westmoreland. Auctioneers: Crossroads Real Estate & Auction, LLC.

July 2 — Land & home consisting of Tract 1: 18 acres m/l; Tract 2: Homesite (5 bedroom, 2 bath home, shop building & several other outbuildings) with 20 acres m/l; Tract 3: 38 acres m/l (T1 + T2); also selling personal property held at Westmoreland. Auctioneers: Crossroads Real Estate & Auction, LLC.

July 7 — Simultaneous Live & Online Land Auction consisting of 70 acres m/l of Marshall County Land held live at Waterville & online at gavelroads.com. Auctioneers: Gene Francis & Associates Real Estate Brokers & Auctioneers.

July 9 (Day 2) — Selling Real Estate (4BR, 1.5BA home), 2006 Chrysler PT Cruiser, furniture, collectibles, glassware, crocks, household, neon beer signs & more held at Lucas for Carol A. Blackwell Estate. Auctioneers: Foundation Realty, Morgan Riat.

Rabbits in the garden? K-State horticulture expert gives methods for effective protection

Rabbits are a common invader of home gardens, especially when plants flower in spring. Kansas State University horticulture expert Ward Upham said there are many common-sense ways to keep the hungry critters out.

"This time of year, rabbits gravitate to young vegetables and flowers," Upham said. "But there are some vegetables that are rarely bothered, including potatoes, tomatoes, corn, squash, cucumbers and some peppers."

Upham said some methods for keeping rabbits away include:

Fencing

Fencing is often the quickest and easiest method of control. Upham recommended the fence be at least two feet tall with a fine mesh of one inch or less. Fencing support can be provided by a variety of products, including electric fence posts. However, fencing may not be a viable choice based on the desired appearance of the garden.

Floating Row Cover

Floating row cover is a light woven material that can be placed over plants yet still allows light, water and air to come through.

"Though most often used to promote early growth by keeping plants warmer than normal, it can also help protect young plants from insects and wildlife," Upham said.

Repellents

Although commonly suggested for rabbit control, repellents must be re-applied frequently. Some can also be poisonous and cannot be used on plants intended for human consumption, Upham warned.

Upham said live traps are usually recommended when the rabbit can be moved to a rural area several miles away from where it was initially caught.

"A number of baits can be used to entice the rabbit to enter the trap, including a tightly rolled cabbage leaf held together by a toothpick. However, rabbits often avoid baits if other attractive food is available."

Sprinkler

A motion-activated sprinkler can be attached to a garden hose, releasing a short burst of water upon motion. Upham suggests picking a product that advertises it can protect at least 1000 square feet: "Such products are available from Contech, Orbit and Havahart," he said.

More information on rabbits and rabbit control is available online from K-State Research and Extension.

Upham and his colleagues in K-State's Department of Horticulture and Natural Resources produce a weekly Horticulture Newsletter with tips for maintaining home landscapes. The newsletter is available to view online or can be delivered by email each week.

Interested persons can also send their garden- and yard-related questions to Upham at wupham@ksu.edu, or contact your local K-State Research and Extension office.

Brand names mentioned in this article are for identification purposes only and are not intended to be an endorsement of any product.

THE LATEST FARMING INFORMATION IS IN

Since 1954

GRASS & GRAIN

Published by AG PRESS

CALL (785) 539-7558

AUCTION

SATURDAY, JUNE 18, 2022 - 9:00 AM
1960 North 7th, LAWRENCE, KANSAS

From North Lawrence Hwy 24/40 at Tee Pee Junction, East 1/2 mile to Dg. E 1500 Rd. turn North to Auction! WATCH FOR SIGNS!

COLLECTOR TRUCKS, TRACTOR, TRAILER, STAGECOACH

1948 Dodge B-1-F152 Truck, manual trans, 6 cyl. flat-head, w/Grain Bed 7x13 & Sides, hoist, ONLY 15K miles, ALL ORIGINAL!; 1949 Dodge B-1-B-108 1/2 Ton Truck, pilot window, 6 cyl flat-head, manual trans, new tires, 66K miles; Ford 3000 Tractor, gas, 3 pt., 8 sp. hilo, 540 pto, Ser#C433851; 8x16 Enclosed Cargo Trailer, tandem axle, finished interior, roof vent, 8 ft. tall, side door, double fold-out rear door, inside floor ties, NICE!; Prairie Queen Custom Made Wooden Miniature Stagecoach made for Ponies.

EQUIPMENT, COLLECTIBLES & MISC.

Ingersoll Rand T30 Model 255T 80 gallon Air/Vac. Horizontal Commercial Compressor 5 hp., 3 ph., on wheels Like New!; Eagle EAC-2T Heavy Duty Air Compressor, 208CC gas motor, twin 8 gallon tanks Brand New!; Powermatic 20" Model 87 Metal/Wood Vertical Band Saw w/ Grob Model 600 Blade Welder & extra blades; Acra Metal Cut-Off Saw w/Water Lube; RoTool Dustless Sanding System w/ hose & cart; Hutchins Model 4932 Speed Sander; AV & National Orbital Sanders; Craftsman 4" jointer/planer; DeWalt DW703 Compound Mitre-Saw; 5 gallon Sandblaster; 13 drawer Craftsman Tool Cabinet w/keys!; Craftsman Commercial 15 1/2" Drill Press; industrial drill bits; Machinists: micrometers 4-5" & 5-6", dial indicator set, center finders, reamers, mill bits, slot & slitting arbor set; Square D Model 30T3H Transformer; 3x6 metal shop table; several sizes of wooden shop tables most all have wheels!; 3 mold and pattern making shop tables! (1" thick MDF tops, 4'x16", 2 @ 4'x7"); 2 Neal 10 ton Air Craft Jacks; Air Craft tow bars; Norwegian D11 Compressed Air Dryer; SP500 Motor Drive Control; Watlow (PPC-2010, PPC-2025, PC20-F25B-0000, Anawin Ver 3.4.5 Software) computer controlled Large Composite Curing Oven System with 19 @ Tempco A00-25, 3150 Watt 240 V electric heating elements, with all manuals and wiring diagrams; Ogden ETR-9090 Microprocessor temperature controllers with heating elements; AC Aviation Champion Spark Plug Cleaning Machine; 2x6 Lighted "Professional Pilot Course" Sign; Vintage Weaver Lo-Way floor jack; Fairbanks 1000lb platform scale; L1011 Eastern Airlines First Class Airline Seats; Cessna 310 Seats; snow blower; power washer; Lincoln Enodis gas Full Size Pizza Oven; Office Desks & Chairs; file/lateral cabinets; Hewlett Packard 750C Plotter; folding table/chairs; plastic, wooden, metal shelves; composite lay-up material & rack; PPE supplies; electrical wire; air and electric power/hand tools; power caulking guns; surveyors tri-pods; saw horses; new bolts/hardware; sanding/composite supplies; 12x12 Fiberglass Raynor Garage Door (complete door, rails etc.); Nikko Desiccant box; Balsawood; dimensional lumber; suspended ceiling material; vacuum/hydraulic fittings & hoses; copper/aluminum/flat metal/tube/angle; salvage metal; **many, many items too numerous to mention!**

AUCTION NOTE: Very Large Auction with Many Name Brand & Well Taken Care Of Items! Held Inside Large Hanger Bldg. Rain or Shine! At the Lawrence Airport! CONCESSIONS: Worden Church Ladies. Loader/Forklift. INSPECTION DAY OF AUCTION ONLY or By Appointment!

SELLERS: GUT WORKS, LLC RON RENZ & STEVE CRAIG

Due to Covid 19 we are taking precautions for the health and well-being of our Customers & Staff. Out of the abundance of caution and in accordance with local, state, federal guidance/recommendations in place please follow social distancing while attending. We ask everyone to please do what is best for themselves & if in doubt, please stay home. Thanks for your patronage and cooperation in the New Normal of the Auction Industry!

ELSTON AUCTIONS * (785-594-0505) (785-218-7851)
"Serving Your Auction Needs Since 1994"

Please visit us online: www.KansasAuctions.net/elston for 100+ Pictures!

PUBLIC AUCTION

SATURDAY, JUNE 11, 2022 — 9:30 AM

Due to health we will sell the following items at public auction at our farm located about 10 miles northwest of Abilene, KS. From I-70 take Talmage exit 277 at Abilene and go 6 miles north to Hwy. 18. Continue north for 4 miles to 3400 Ave., then go 1 mile west & 2.25 north to 3632 Eden Rd., ABILENE, KANSAS.

FARM MACHINERY & IRON (sell at 11:00): Allis WD tractor w/ loader; Allis WD for parts, complete; Allis planter; 2R lister; snap coupler post hole digger; late 60s Pickup bed trailer; 2 hay racks; Allis dirt scoop; dirt slip; dump rake; metal chute; old NH baler; hay/grain elevator, other old machinery.

LIVESTOCK EQUIPMENT: Lots of hog/calf panels & pens; small sloped roof calf shed; various other small sheds; hog working chute; 100+ T-posts, 5 to 6ft.; lots of elec. posts; electric & barbed wire; fences.

TOOLS & SHOP SUPPLIES: Lawn mower jack; Twentieth Century arc welder; Powercraft 10" radial arm saw; chop saw; Milwaukee Sawz all; ballistic drill in case; cordless tools; variety of nice hand and power tools; Craftsman tools; Stihl Farm Boss & 011 chain saws; Echo trimmer; bench grinder; leg and bench vises; chains; cable; welding table; old shop full of supplies.

ANTIQUES & PRIMITIVES: Good dbl. wash tub on stand; 30 implement wheels; wooden pulleys; crosscut saws; egg baskets; military boxes; other wooden boxes; lots of galvanized cans and buckets; 5 gal. oil cans; funnels; Maryland Co. sign base; well cups; old tool boxes; hay knives; old hand tools; gopher traps; a very large variety of primitives too numerous to mention.

NOTE: The Travelutes have been here a long time, this is a large accumulation. Loader tractor available day of sale or by appointment. 30 days for removal. Your inspection invited prior to sale. Announcements made day of sale take precedence over printed matter.

TERMS: Cash or good check day of sale. Not responsible for accidents. **CLERK:** Shirley Liedke, 526 Fredrick, Clay Center, Ks. 67432

LUNCH: Ponton Ladies

Go to globalauctionguide/kretz or kansasauctions.net/kretz for many pictures and any additional information

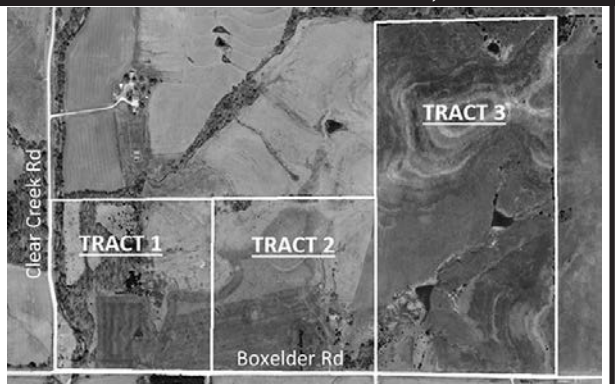
ROY & REGINA TRAVELUTE, SELLERS
Call Randy Travelute at (785) 263-5757

Auction conducted by: **Kretz Auction Service**
Greg Kretz, Salesman & Auctioneer (785) 630-0701

POTTAWATOMIE COUNTY LAND AUCTION

TUESDAY, JUNE 28, 2022 * 6:30 PM

AUCTION LOCATION: Westmoreland Community Center, 201 Main Street - WESTMORELAND, KANSAS



DESCRIPTION

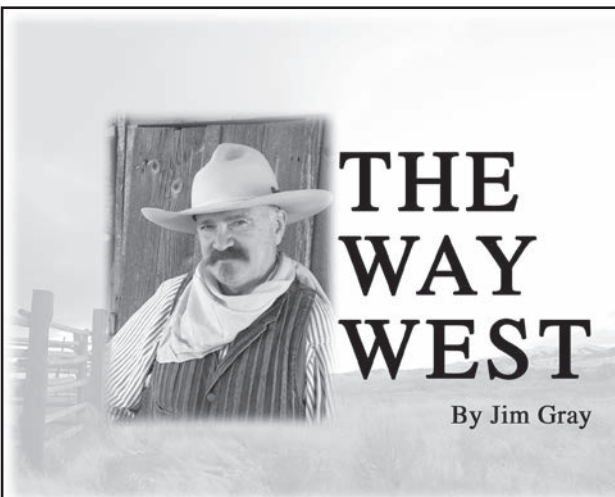
Take advantage of this opportunity to own a great piece of property that sits just southeast of Westmoreland and north of Wamego. This location allows for country seclusion but still lays less than a mile east of Hwy 99 providing easy access to both of those communities. **Call Andrew or Bill with questions or to take a look for yourself!**

TRACT 1: 35 +/- acres **TRACT 2:** 36 +/- acres
TRACT 3: 80 +/- acres (includes 3 ponds)
TRACT 4: Tracts 1, 2 & 3 combined

REAL ESTATE TERMS: Property sells AS IS, WHERE IS. 10% non-refundable down payment is required day of sale by check. Buyer must be able to close on or before July 28, 2022. Buyer needs bank letter of loan approval or funds verification. Cost of Owners Title Policy to be split equally between Buyer and Seller. Buyers are responsible for understanding all zoning, building and other regulations associated with the property prior to the day of auction. Possession will be on November 1, 2022 at the end of the current lease. All announcements day of sale take precedence over written materials. Crossroads Real Estate & Auction LLC is representing the Seller.

Check us out on Facebook & Online for more info www.kscrossroads.com
www.facebook.com/KScrossroadsAuctions

Crossroads Real Estate & Auction LLC ANDREW SYLVESTER, Listing Agent/Auctioneer, 785-456-4352
TERRI HOLLENBECK, Broker/Owner, 785-223-2947
BILL DISBERGER, Auction Coordinator, 620-921-5642



A Noble Enterprise

The idea of an express delivery of letters carried by horse and rider, a "pony express," was introduced to Congress by California Senator William Gwin in 1855. It was an idea before its time. Ocean delivery from New

York around Cape Horn of South America to California was wholly acceptable at the time. The bill quietly expired in committee.

Two years later a mail contract was awarded to John Butterfield's

Overland Mail Company. Butterfield's Overland Mail Company included passenger stage service along a southern route to California. It is often confused with a completely different company that crossed Kansas in the 1860s, known as the Butterfield Overland Despatch. The original Butterfield system of labor, horses, and equipment proved that overland delivery could compete with ocean delivery and encouraged entrepreneurs to find ways of improving communications with the west coast.

As rumblings of civil war spread across the nation the need for efficient transfer of information grew critical. A fortunate meeting between Senator Gwin and William Russell of the massive freighting firm of Russell, Majors, and Waddell initiated Russell into the workings of the proposed pony express. The entrepreneur freighter pledged that he could produce a pony express capable of delivering mail from the western outpost of St. Joseph, Missouri, to Sacramento, California, in an incredible ten days.

On April 3, 1860, the Pony Express began service. Ten and one-half days later the mail arrived in Sacramento. Fully equipped, the line

comprised 190 stations, about 420 horses, 400 station men and assistants and 80 riders. Riders left San Francisco the same day arriving in St. Joseph to thunderous applause. The Pony Express was an immediate success.

After only one month of operation the grand success of the Pony Express was apparent. The latest rider arrived in St. Joseph, Missouri at 9:30 p.m. May 6, 1860, nine days and four hours from San Francisco. What had once been an amazing feat was on the way to becoming commonplace. Thirty-five thousand dollars in drafts were transmitted to New York twelve days sooner than ocean steamer delivery could accomplish. Ominously, a communication in that same delivery threatened the triumph of the innovative Pony Express. Indians had stolen thirty express horses between Salt Lake and Carson Valley, Nevada. An expected several-day delay turned into a complete shut-down of operations as the Paiutes escalated hostility in a conflict that became known as the Pyramid Lake War. Stations were burned. Men were killed.

The June 2, 1860, *Fort Scott Bulletin* posted a letter that had been delivered by Pony Express to St. Joseph, Missouri, re-

lating news that express men had been killed at Williams Station. Several hundred men were reportedly seeking revenge on the "Pah-Utah" nation.

The *Leavenworth Dispatch* reported that on June 23, 1860, a rider had brought the first mail from California in three weeks. The article reported that seven riders had been "lost." The company had also sustained considerable losses "in stock, provisions, wagons, Etc." One station alone had reported a loss of fifteen hundred dollars. "The agents are doing all in their power, to keep up the connection, by partly forcing and by partly stealing their way through the hostile country."

There was no military presence in the area. The *Dispatch* continued, "Strong efforts are being made to secure the presence of the U. S. troops of the Salt Lake Department... Volunteers and regulars are already in the field." The Paiutes laid an ambush. Three-quarters of the command of one hundred five volunteers were slaughtered. A second command of six hundred men finally drove the Paiutes into the mountains. By July 7, 1860, the *Fort Scott Bulletin* reported that U. S. troops had opened the route of the Pony Express. By mid-Ju-

ly the Pony Express was not only running regularly, but had increased delivery to two runs a week.

Occasional disruptions continued into August but for the most part the Pyramid Lake War was over and the miracle of the Pony Express rose from its ashes to delivery of the mail across twenty four hundred miles in the lightning-quick span of just over nine days.

The Pony Express was only in operation for eighteen months, supplanted by the completion of the telegraph wire over the same route. But in that eighteen months the nation was captivated by the young men who rode their fiery steeds through every danger and difficulty to "bring the Atlantic and Pacific shores within a week of each other. In the words of a correspondent of the *St. Louis Republican*, "It is a noble enterprise... and I think of the toil and peril of the way, my heart says, God speed to the boy and the pony!" 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@kansas.com.

Dairy, Beef, Show Cattle, Bulls

Preventative Trimming & Lameness Treatment

Northeast Kansas Area
316-644-8392
agritrim.com • robert@agritrim.com

Farmers & Ranchers

AUCTIONS EVERY MONDAY & THURSDAY

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

UPCOMING SALES

Passion For Prime Wagyu

Saturday, June 11, 2022

Sale Starts at 1 pm

IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- Heavy Duty Feed Bunks

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY
Hogs sell at 10:30 a.m. *on the 2nd & 4th Monday of the month.* Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

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

AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD

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

CATTLE USA.com LIVE CATTLE AUCTIONS

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

REMINDER!

MONDAY SALES ONLY THROUGH THE MONTH OF JUNE!!

We will have all classes of Livestock Each Monday

HOG SALES Every 2nd & 4th Monday

Lot #	Consignor:	Horse	\$	Notes
134	LILLEY, JOSH	CATS TUFF N THE BUFF AQHA	\$20,500	2015 buckskin gelding grandson of Cats Merada - ranch, rope
18	TORRES, SALVADOR	EBS AGLow WITH PEPTO AQHA	\$20,000	2016 blk gelding by Stylin With Pepto - ranch, rope, ranch horse champion
68	HARRIS, CHAD	ONE SMART SENSATION AQHA	\$17,000	2015 sorrel gelding by One Smart Request - ranch, rope
40	COIRIER, JESS	CUSTOM MADE COCTAIL AQHA	\$15,500	2016 bay gelding by grandson of Nu Chex To Cash - ranch, 2nd place in ranch horse
48	R&S LIVESTOCK	TIVEO SILER HANCOCK AQHA	\$14,600	2018 by Hairpen Derek Shorts - ranch, 2nd place ranch horse
143	BOATRIGT, RYON	RBR PEPPY SAN EDDIE AQHA	\$13,500	2018 sorrel gelding by Sun Olena Rey - head horse
30	BUCHMAN, REX	HURRICANE RAIN AQHA	\$12,500	2014 sorrel gelding by CRR Hurricane Cat - ranch, 4th place ranch horse
107	MP PERFORMANCE HORSES	SWAGIN IT AQHA	\$12,000	2018 bay gelding by One Fabulous Time - ranch
101	STOVER, JAMIE	DASHING LIL CAT AQHA	\$10,500	2016 sorrel mare by Moonstruck Pepto - trail, team rope
35	MP PERFORMANCE HORSES	DRIFTIN RED WAGON AQHA	\$10,000	2016 sorrel gelding by Drifters Joe - ranch
20	HIGGS, FRANKLIN	RONDO COWBOY JOE AQHA	\$10,000	2015 chestnut gelding by Moleo Rondo - ranch
161	KENNEDY, LANE	WATCHERS ASHWOOD P15 AQHA	\$9,500	2015 gray mare granddaughter of Playgun Watcher - ranch
65	SMITH, BRAD	BLACKJACK GRADE	\$9,300	2010 black pony - family pony
91	JOHNSON, WILLIAM	FIVE ACRE JAYCEE AQHA	\$9,000	2019 gray filly by Jaycee Show Me - HPI & Futurity Eligible
59	HOWARD, MACEYN	IMA NIFTY PISTOL AQHA	\$9,000	2007 gray gelding by Little Pistol Silver - rope, family horse
8	MP PERFORMANCE HORSES	FOUR FRIDAY AQHA	\$8,500	2015 buckskin gelding grandson of Sun Frost - ranch
89	PENNER, CODY	IMA SOB HANDLE AQHA	\$7,900	2015 buckskin mare grandson of Two Eyed Red Buck - ranch
57	ROBERTS, WES & CASIE	CUTTA BLUE STAR AQHA	\$7,500	2019 black gelding grandson of Freckles Boon - ranch
132	CHANG, KINGSTON	PUDDIN GRADE	\$7,300	2017 sorrel gelding - head horse
52	JOHNSON, LISA	PLAIN OLE FAST AQHA	\$7,000	2018 brown gelding by Hasta Be Fast - barrels and ranch

HIGH SELLER - LOT 134

2ND HIGH SELLER RANCH HORSE CHAMPION - LOT 18

3RD HIGH SELLER LOT 68

4TH HIGH SELLER LOT 40

5TH HIGH SELLER LOT 48

2018 model bay gelding LOT 107

LOT 65

Top 5 Average \$17520.00
Top 10 Average \$14610.00
Top 15 Average \$12860.00
Top 20 Average \$11555.00

For Information or estimates, contact:

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

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

Jim Crowther 785-254-7385 Roxbury, KS
Lisa Long 620-553-2351 Ellsworth, KS
Cody Schafer 620-381-1050 Durham, KS
Kenny Briscoe 785-658-7386 Lincoln, KS
Kevin Henke H: 785-729-3473, C: 785-565-3525 Agenda, KS
Austin Rathbun 785-531-0042 Ellsworth, KS

Cattle Sale Broadcast Live on www.cattleusa.com 1150 KSAL, Salina 6:45 AM - MON-FRI * 880 KRVN 8:40 AM - WED-THURS. *550AM KFRM - 8:00 am, Wed.-Thurs.