

Claassens describe batch farrowing transition at K-State Swine Profitability Conference

By Donna Sullivan, Editor

The 33rd annual Swine Profitability Conference hosted by Kansas State University was held Tuesday, February 7 at the Stanley Stout Center in Manhattan. The speaker line-up included Paul Yeske, Swine Vet Center, who discussed lessons learned from recent PRRS outbreaks; Glynn Tonsor of K-State's Ag Econ department who presented an industry outlook in a period of elevated uncertainty; Randy Prather, Curators' Distinguished Professor at the University of Missouri and recent KSU Distinguished Alumni, who shared about his work with genetically engineered swine for both agriculture and human medicine; Christine Mainquist-Whigham and Ethan Stephenson who talked about their efforts at Pilen Family Farms to improve efficiency through health, nutrition and management innovation.

Part of the program each year is presentations by producers in the industry sharing innovations they've implemented or challenges they've overcome. This year Doug and Cole Claassen of Whitewater described their transition to batch farrowing at Henry Creek Farms.

Now a sixth-generation family farm, Henry Creek Farms was established in 1876 and incorporated in 1973. Doug and his brother Kim returned to farm together after graduating from K-State, Doug with a degree in animal science

and Kim in agriculture mechanics.

"After I graduated and returned to the family farm, I focused on the pigs and managed a continuous flow farrow to finish system that served us well for thirty years," Claassen said. Kim handled the crop side of the operation, which he continues to do today, along with "fixing all the things we break," he quipped.

The desire for the next generation to return to the farm, as well as the need to remain competitive and increase efficiency and herd health, drove the change to batch farrowing. "We decided it was time for a new chapter at Henry Creek Farms," Claassen said. "But what would that involve? Can a diversified family farm in south central Kansas make pork production a profitable enterprise in today's climate and in the future?" Doug's two sons Cody and Cole and Kim's son Grant wanted to be involved in the farm. "We had to find a place for everybody to fit in. With today's technology it doesn't take very many operators to farm a lot of crop acres. We couldn't very easily increase our acres enough to provide employment and income for everyone. Could we grow the livestock enterprise to accomplish this?" Their facilities were more than thirty years old and would need to be remodeled or retrofitted. "We think we are good at caring for pigs and we wanted to uti-



Doug Claassen, with his son Cole, right, also presenting, described how their operation made the transition to batch farrowing. The pair spoke at the K-State Swine Profitability Conference Feb. 7 at the Stanley Stout Center in Manhattan.

Photo by Donna Sullivan

lize the grain raised on our farm and market the grain through our pigs," he continued. "Could we be competitive with the trends toward larger, integrated pork production systems?" They were farrowing twenty-five to thirty litters a week and hoped to wean 300 pigs a week. They raised their own replacement gilts using maternal live semen. Realizing this was a difficult replacement system to manage, they decided it may be a good time to do a reset with a facilities upgrade, repopulate with new genetics and a higher health status.

For advice and an-

swers to their questions they turned to experts they'd had long-term relationships with, including Lisa Tokach and other veterinarians at the Abilene Animal Hospital. Dr. Steven Henry suggested batch farrowing and explained why he thought it was a good fit for them. He recommended a 5/4 batch farrowing system, where five groups of sows farrowed every four weeks and weaning 21-day-old pigs. They would then go to six 2500 head all-in all-out wean to finish sites. "After this meeting we thought batch farrowing was a strategy that could work for us," Claas-

sen said. "We had come full circle. We were batch farrowing when I came home from college with the bright idea of improving production by going to a weekly schedule and now we were going back to batch farrowing forty years later."

Once the decision had been made they formulated and implemented a plan. In the spring of 2018 they built a 2500 wean to finish site and had some other sites become available that got them to three full wean to finish sites including some nurseries. They built a new sow farm capable of producing 2500 pigs every four

weeks. They made the decision to sell every other batch of pigs and add the other three sites that were needed in the future.

They now have a 1300-sow farm that markets approximately 18,000 market pigs and 18,000 SEW (segregated early weaning) pigs annually. They have eleven full-time employees including family members. They batch farrowed their first batch of pigs in 2019 and will soon wean their 42nd batch of SEW pigs.

"We have a better understanding of what drives batch farrowing performance and how to make it work for us," Claassen said.

Kansas wheat battling through tough conditions

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

No need to tell Kansas wheat producers, but drought has really been a bummer for the hard red winter wheat crop.

On Jan. 17, the USDA's Economic Research Service reported that 59% of the winter wheat production in the United States is within an area experiencing drought. The Kansas wheat crop is still rated as good/excellent, according to the USDA, though its ratings for the Sunflower State dipped slightly between November and January.

"You never want to count a wheat crop out; we talk about it being the crop with nine lives,"

said Jeanne Falk Jones, a multi-county specialist with K-State's Northwest Research-Extension center in Colby. "But some would say we ran through a few of those lives trying to get to this point in the growing season."

Falk Jones said much of the western Kansas wheat was planted in "extremely dry" conditions, creating variability in wheat stands in the late fall and into this spring.

"We had some wheat that was pretty well established, some with two or three tillers on those plants and had a good root system under them," Falk Jones said. "Then we had other fields that may have been just down the road where wheat had not even



germinated last fall because it was in such dry conditions."

Sub-zero temperatures delivered another punch to the hard red winter wheat crop, Falk Jones said. Wheat will better withstand cold temperatures if the soil is moist,

but in areas where that ground was still dry, the conditions had "an additive effect on some of the stress those plants endured," according to Falk Jones.

"All of this is playing into how we think about wheat's chances of green-

ing up this coming spring," Falk Jones said.

In the past year, precipitation in Kansas was about ten inches below normal, but the news isn't all bad. In January, Falk Jones said, the Kansas Mesonet reported that the state was ahead of average by .85 of an inch.

"That is exciting," Falk Jones said. "We're happy to have every bit of that. It's going to help support some of the root growth and growth of spring tillers in our wheat."

"We're moving forward," she added, "although at the moment, our wheat is in a dormant period. While it's still having respiration out in the field, it's very slow, and we're not seeing a lot of growth.

We won't see the visual effects of (recent) moisture until we start to warm up in the spring."

Kansas is the nation's leading wheat producer, known for hard red winter wheat that is used for whole grain white bread and other whole grain products.

According to the Kansas Department of Agriculture, the state's growers harvested 7 million acres with an average yield of 52 bushels per acre in 2021. This accounted for 10.4% of the state's total agricultural receipts and 22.1% of the nation's crop.

KDA estimates the direct impact of wheat production in Kansas at \$1.3 billion in output and 3,231 jobs.

Technology inches farming toward autonomy

Armchair farming may not be here yet, but it's getting closer.

"Autonomy in agriculture isn't as far away as you think," says Kent Shannon, University of Missouri Extension agricultural engineering specialist.

Agriculture is rapidly shifting to technology that can increase land efficiency, reduce labor shortages and streamline food production, says Shannon.

Imagine a world where tractors and combines can run without a driver all day and all night, he says. Autonomous tractors won't clock out at the end of the traditional workday or call

in sick.

A new generation of farmers raised on technology is moving the industry ahead at a quickening pace. Shannon points to the use of GPS-guided tractors and combines with autosteer. In 2005, only 6% of farmers used this technology, compared to 85% in 2022. Likewise, more than 70% of farmers began using GPS-enabled sprayer booms with nozzle control since 2010. Other precision technologies gaining popularity include fleet tracking, scouting with mobile devices and predictive models for treating pests.

Half of dealers are using telemetry to share information among applicators to office locations. More than two-thirds of dealers offer precision soil sampling, yield monitor analysis, satellite or aerial imagery, VRT (variable rate technology) fertilizer and lime applications and VRT seeding prescriptions. One of the largest growth areas is using drones for precision pesticide application. *CropLife* magazine reported these results in its July 2022 issue after Purdue University surveyed cooperatives, independent retailers and others in the Midwest.

Nitrogen management is one of the areas where new technology can most benefit farmers, says Shannon. Computer-driven application rates that

are site-specific let growers apply fertilizer where needed and – just as importantly – not apply it in areas where it would not benefit the crop. Computer-aided planting helps in avoiding skips.

Tractors are becoming more versatile, with interchangeable chassis compatible with different brands of existing equipment. Smaller, lighter tractors reduce compaction.

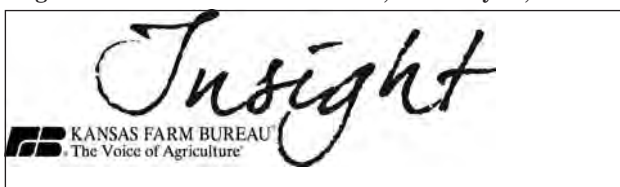
There are numerous issues to consider as technology evolves, Shannon says. How will farm equipment travel on rural roads? How will farm liability insurance differ for autonomous equipment?

For more information, contact Shannon at shannonnd@missouri.edu or follow him on Twitter at twitter.com/GPSMUTiger.



Autonomy in agriculture isn't as far away as you think, says Kent Shannon, University of Missouri Extension agricultural engineering specialist.

Delivery of the February 21 issue of Grass & Grain will be delayed due to postal closures for the President's Day federal holiday.



Signs of Spring

By Kim Baldwin,
McPherson County farmer
and rancher

Six more weeks of winter for 2023. At least that's the prediction based on a rodent in Pennsylvania.

My seven-year-old daughter has recently taken to studying calendars. She can tell you when all of the important and slightly less important days are. She's also memorized birthdays and does an impressively good job at reminding the rest of us about what a particular day holds. So, when she woke up and announced it was Groundhog Day, there was a sense of excitement in the air.

While eating breakfast we feverishly switched television channels trying to catch the festivities of the morning live to learn of our future.

By the time the kids had to bundle up and head out to their bus stop, my daughter tried to talk me into letting her skip the bus to school so she could watch the revelation unfold in real time. She just had to know what the future would hold.

I denied her request to skip the morning bus and told her we'd watch the exciting announcement together on YouTube when she got home that afternoon.

By the time I searched for the prognostication that had taken place earlier in the day, I already knew what had been seen and what had been declared but kept that knowledge to myself.

As we gathered around my iPad to watch the replay of that morning's events unfold, you could sense my daughter anxiously awaiting the announcement of her future.

We watched as the stage of gathered gentlemen wearing top hats revealed a royal red carpet and scrolls. We cheered with the crowd as they chanted for a groundhog named Phil while a man formally knocked on a tiny, padlocked door at the base of a tree stump located on the stage.

We waited in anticipation as the groundhog was awakened from his wintery slumber and brought forth from his den to hint

at the scroll containing his discovery.

The prognostication was revealed when we heard the statement, "I see a shadow upon my stage. No matter how you measure, it's six more weeks of winter weather."

My daughter refused to accept the prophesy. She argued that she didn't see his shadow and suggested that the rodent was misguided. In her distraught state, she demanded to watch other videos from that morning that would surely show different angles of the events. She needed better proof.

I assured her that tak-

ing weather advice from a rodent is not the only way one should plan for the future and challenged her to look around the farm for her own observed signs of spring.

And in her brief time of discovery and reflection before dinner she saw three newborn lambs cuddled together in a bed of straw with their mother. She saw how much more space she had to roller skate in the machine shop as we've begun to make room for future seed deliveries. And after moving a pile of leaves, she uncovered the tiny tip of a crocus beginning to peek

through the soil.

Whether we'll experience more winter weather or not this year, there are definitely hints of another season beginning to appear.

And as my daughter learned, we just have to rely less on a soothsaying rodent and keep our own eyes open for other signs of spring.

"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.

KAWG takes to the Hill to convey Farm Bill needs of Kansas wheat farmers

By Julia Debes

Now is the time for wheat farmers to make their priorities known as negotiations for the next Farm Bill kick into high gear. That was a clear message from lawmakers and association staff alike during the 2023 Kansas Commodity Classic. As the calendar turns to a new month, Kansas Wheat is carrying forward that call to action as staff and board members join counterparts from across the country for the joint meetings of U.S. Wheat Associates and the National Association of Wheat Growers.

"If you are participating in KAWG, your voice is being heard," said Shayna DeGroot, KAWG director of membership and governmental affairs. "We're the ones relaying messages to our Congressional offices and our national association. So if you are a part of KAWG, you can have that discussion with us to ensure you have all the tools you need in your operation, especially to stay afloat in times of need."

The 2023 Kansas Commodity Classic — the annual convention of the Kansas corn, wheat, soybean and grain sorghum associations — on January 27 in Salina, farmers from across the state heard a market update from Dan Maltby with Maltby Risk Management, a U.S. Agriculture in 2023 projection presentation from AgriPulse Communications publisher Sara Wyant, U.S. Senate updates from senators Jerry Moran and Roger Marshall, a virtual House Update panel featuring all four members of the Kansas Congressional delegation, and a Farm Bill and Farm Programs Update from national as-

sociation staff.

The agenda was packed with valuable information, but DeGroot highlighted the need for educational staff or Congressional members that are unfamiliar with agricultural issues and the potential difficulties of the current political situation in passing the next Farm Bill.

"There are fewer and fewer agriculture leaders working on the Farm Bill, so we have a lot of education to do," DeGroot said. "There may be a struggle to agree on some issues and get everything pushed through, so we need to be sure our voices are heard and we're relaying information for our farmers."

As an important part of that gather-and-convey policy process, KAWG members met one day ahead of the statewide event to discuss and debate policies impacting wheat growers, including approving two new resolutions passed by the KAWG Board of Directors:

· RC.9 The KAWG supports efforts to improve crop insurance performance for farmers through the separation of enterprise units by fallow and continuous, while still offering combined units to those who it would benefit.

· E.9 The KAWG recognizes the soil and environmental benefits of wheat in a crop rotation and therefore wheat that is intentionally seeded and harvestable should have the option of being classified as a cover crop for purposes of NRCS and other climate-smart programs.

Both resolutions are intended to help provide additional flexibility and benefits to Kansas wheat farmers, especially during drought or other adverse conditions. Read the full

set of KAWG resolutions at kswheat.com/kawg-resolutions.

"KAWG is proud to help address wheat farmers' needs in the upcoming growing season and Farm Bill negotiations," DeGroot said.

DeGroot and Kansas wheat farmers carried these resolutions and concerns with them to Washington, D.C. recently — where they and Kansas Wheat Commissioners are participating in the joint winter meeting for USW and NAWG. As part of those meetings, the Kansas group will meet with the entirety of the Kansas Congressional delegation to provide additional insights on priorities for Kansas wheat growers for the next Farm Bill, including the new resolutions passed recently.

"We're excited to get on the Hill," DeGroot said. "It's really important that you are involved in your state organization — like KAWG — so we can lobby for issues like protecting crop insurance and work on issues affecting farmers in different areas of the state. We urge you to become a part of KAWG so we can ensure your voice is heard by the folks writing the policies that will directly impact your operation."

Renew or sign up for a KAWG membership today to stay informed as Farm Bill negotiations progress. Membership benefits include a weekly update with state and national news in addition to a weekly market analysis, the monthly Wheat Farmer/Row Crop Farm newsletter and the annual guide to wheat varieties for Kansas and the Great Plains. Learn more or pay for your membership at kswheat.com/kawg.



This week is Valentine's Day, a day that causes stress for many of us guys. Well, maybe that is not fair; perhaps most of you are better at Valentine's Day than I am. When it comes to romance and gift giving, I am not very good, and age does not seem to make me any better at it. I suspect I am not alone when it comes to this particular weakness, and I would guess I am in the majority of farmer and ranchers. It's just a hunch I have.

I would like to think that my failure in the romance department is genetic. If it is not genetic, it is because I did not have a good role model when it came to matters of the heart. Valentine's Day was not a big deal for Dad. I never once remember him buying flowers or taking Mom out for dinner. We did always have a big, heart-shaped box of candy around Valentine's Day but I kind of suspect my mother was the source of it, even though she gave Dad credit. The funny thing about that, even if it was Dad that bought it, Mom did not particularly like sweets and Dad, my sister and I ate at least 75% of the candy. To say the least, Valentine's Day was not a big deal around my parents' house growing up. Gift giving in general was not one of my Dad's strengths, the most memorable thing I remember him giving Mom was a microwave. I am lucky Jennifer did not do an in-depth background check before we got married. I would like to blame my upbringing for my lack of romance but I have been married longer than I lived at Mom and Dad's so that cannot be an excuse any more.

My main excuse is that I am absent-minded. I really mean to get arrangements made and have a plan and then all of the sudden it is February 12, and I am scrambling to catch up. There are just so many dates and appointments in my life that I can't keep them all straight. That excuse kind of worked until I got this stupid smart phone that will let you keep a calendar and can be programmed to give you reminders. I just wish they would keep Valentine's Day on the same date each year.

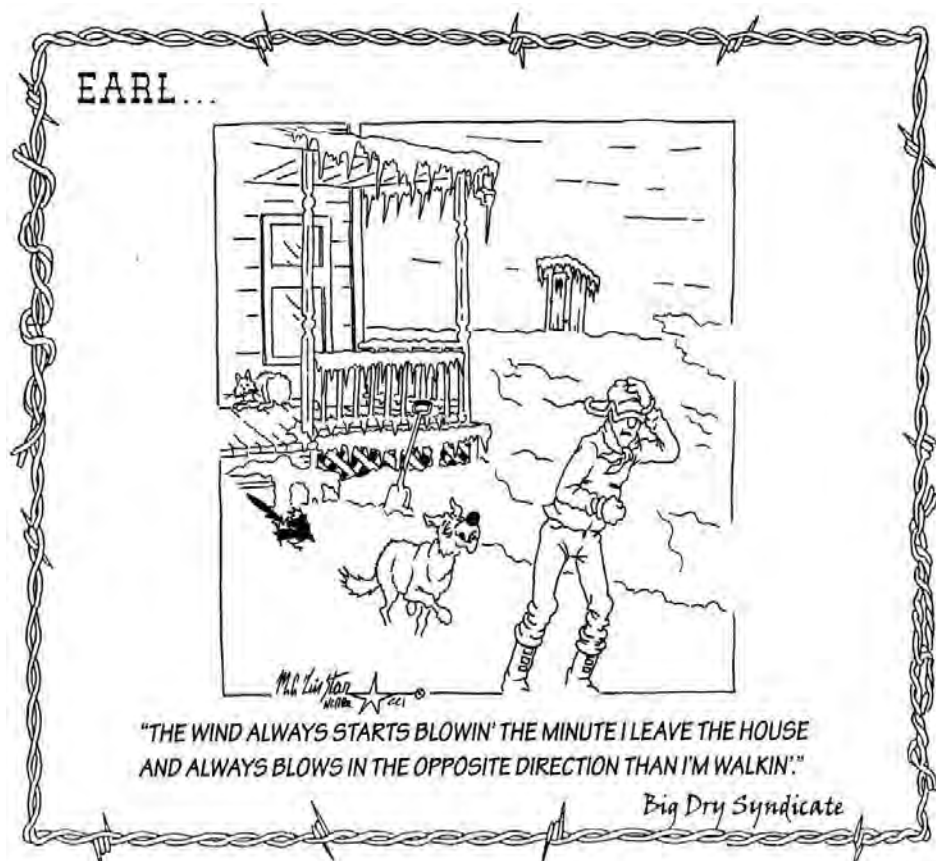
I am also quite gullible. Our first Valentine's Day, Jennifer

told me we didn't have to get each other anything. I took that to heart. Imagine my surprise on Valentine's Day when she handed me my gift and it was a really good one. That morning I made a flying trip to the florist only to find out that they were out of roses or any other flower for that matter and all they had were balloons and hard cinnamon candies. Looking back now I realize how lame that was but at the time it seemed like a pretty good option. Little did I know that Jennifer was not a fan of balloons or hard cinnamon candies. I was lucky to have survived that day.

In the 25 years since I have done better to varying degrees but to say I have never swept Jennifer off her feet with my romantic plans would be an understatement. God bless her for giving me second chance after second chance. I strive to do better each year, I guess it's nice to have a goal. The bottom line is, no matter what I do it will never be enough to show her just how much I love and appreciate her every day, not just February 14.

Again, I know I am preaching to the choir here but like many farm and ranch wives Jennifer goes the extra mile for our place every day. She works her day job only to come home most nights and help me with something instead of sitting down and resting like she really would like to. On holidays or vacation days she is working with me on stuff instead of relaxing and recharging like those days were meant to do. Even more of a sacrifice is the many days she takes vacation so I can be away from the farm doing my thing for Farm Bureau. I am not sure even if I was good at this romance thing it would really be enough for all she does.

This year I do have a plan in place; we will see if I have learned anything in the last 26 years. I don't want to give the surprise away but I will guarantee you that she will not be getting balloons or cinnamon candy of any kind. I may not be a smart man, but I am not that dumb. I also know that whatever token of my love and appreciation I do give her it will never be enough. I am sure farm and ranch wives have a special place in heaven.



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

— Advertising Staff —
Briana McKay, Abi Lillard
briana@agpress.com, abi@agpress.com

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K-State releases updated guide on chemical weed control

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

Kansas State University has released a publication that helps farmers and other landowners sort through many factors related to controlling weeds on pastures and other land.

Weed scientist Sarah Lancaster said the 2023 Chemical Weed Control for Field Crops, Pastures, Rangeland and Noncrop-land is now available online from the K-State Research and Extension bookstore.

"Weed management decisions are complex not only due to the interaction of weed management with agronomic, environment, and economic factors, but also because herbicide

labels are frequently updated and each company provides that information in different ways," Lancaster said. "This publication is designed to provide decision-makers with one resource to find the unbiased information needed to develop an herbicide program."

"It's been more than 20 years since an herbicide with a new mode of action was registered, so it's important that farmers and their advisors are good stewards of the products we have available. This means using nonchemical practices and being sure to mix and rotate herbicide active ingredients to help slow the development of herbicide-resistant weed populations."

According to Lancaster,

there are some new products outlined in K-State's 2023 guide, particularly for corn, soybeans and wheat, but most of those products are combinations of existing active ingredients.

"This guide," she notes, "can help decision-makers as a tool to compare the active ingredients in products so they can better compare branded products."

The guidelines for applying herbicides are normally outlined on the product's label.

"One thing to remember is that the label is the law," Lancaster said. "In most cases, the label that is on the container being used will have the guidelines the user is obligated to follow. In some cases, that label may be older or

newer than the information in the weed guide."

She also urges landowners to remember that proper weed control often is influenced by weather.

"Fortunately farmers and their advisers are accustomed to adapting to unexpected weather conditions, but there can be a lot of details, like crop height restrictions for late-season applications or crop rotation restrictions in a replant situation that need to be remem-

bered as plans are adapted," Lancaster said.

She adds: "Given the limitations of weather and the development of herbicide-resistant weed populations, it is very important that farmers consider what nonchemical weed management practices they will implement to support their herbicide program. It takes multiple layers of management to successfully control our most troublesome weeds, like Palmer amaranth and

waterhemp."

While the full publication can be viewed online, print copies of the 2023 Chemical Weed Control for Field Crops, Pastures, Rangeland and Noncrop-land at bookstore.ksre.ksu.edu

Updates to the guide will be made to the online version, as well as announced in the K-State Department of Agronomy's weekly e-Update, and on social media (@KStateWeedSci).

ADM introduces new crop biostimulant to boost nutrient use efficiency and yields

ADM has announced the introduction of its new agricultural biostimulant that boosts corn yields by improving nutrient use efficiency. In multiyear trials hosted at the University of Illinois at Urbana-Champaign, NeoVita™ 43 biostimulant, plus with liquid starter fertilizer, increased corn yields up to seven bushels/acre versus starter fertilizer alone.

"NeoVita 43 can help farmers capture more value from available nutrients by supercharging microbial activity in the rhizosphere, thereby making more nutrients accessible to plants," said Graig Whitehead, ADM director of biologicals and new technology. "For farmers using liquid in-furrow treatments at planting, this offers an easy and cost-effective way to boost yields and optimize fertilizer use efficiency."

NeoVita 43 is formulated to closely mimic the plant root exudate that supports soil microbial activity to promote nutrient availability and uptake by the plant. By increasing the availability of these key nutrients to the soil microbiome early in the growing season, developing plants can increase nutrient uptake and get off to a stronger start, which can lead to higher yields.

ADM collaborated with the University of Illinois

to design, implement and analyze research trials to evaluate the performance of NeoVita 43. In every trial across multiple years and locations, NeoVita 43 boosted yields over the untreated check when used alone or with starter fertilizer. Following this consistently positive performance, ADM expanded testing efforts to precommercial on-farm trials with ADM Fertilizer customers in 2022.

"The University of Illinois has been collaborating for multiple years with ADM and others to test biostimulant products to help ensure their efficacy," said Fred Below, Ph.D., professor of plant physiology, University of Illinois. "Biostimulant products like NeoVita 43 - ones' whose performance claims can be validated by third-party data - show great promise to help im-

prove the sustainability of farming by improving use of available nutrients and increasing yields."

The new biostimulant can be applied with liquid starter fertilizer at planting and does not require additional mixing or special handling. It will be available in 275-gallon totes through ADM Farm Direct Fertilizer and participating ag retailers. The MSRP is expected to be less than \$8 per acre.

ADM anticipates expanding university testing in 2023 to evaluate the opportunity for NeoVita 43 in other crops. The company is also developing additional proprietary biostimulant blends to further boost yields and agricultural sustainability.

For more information about NeoVita 43 and ADM Fertilizer, visit ADMadvantage.com.



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- 3 pounds lean ground beef
- 1 cup applesauce
- 1 1/2 cups soft bread crumbs
- 2 eggs
- Salt & pepper to taste
- 2 onions, finely chopped
- Flour
- Cooking oil
- 1 1/3 cups ketchup
- 2/3 cup chicken broth

Combine the first 6 ingredients and form into balls. Roll in flour and brown in oil. Transfer to baking dish. Combine ketchup and broth and pour over meatballs. Cover tightly and bake at 350 degrees for 40-60 minutes.

Kellee George, Shawnee:

- HAM GLAZE**
 - 4-pound ham
 - Glaze:
 - 2 tablespoons butter
 - 1/4 cup apricot preserves
 - 2 tablespoons mustard
 - 2 tablespoons brown sugar
- Bake ham at 350 degrees according to directions on package. Melt butter then stir in preserves, mustard and brown sugar. Brush ham generously with glaze the last 30 minutes.

Chris Goodman, Silver Lake:

- SIMPLE CHICKEN POT PIE**
 - 1/3 cup butter
 - 1/3 cup chopped onions
 - 1/3 cup flour
 - 1/2 teaspoon salt
 - 1/2 black pepper
 - 1 3/4 cups chicken broth (a 14.5-ounce can is 1 3/4 cups)
 - 1/2 cup milk
 - 2 1/2 cups shredded chicken
 - 1 package frozen mixed vegetables, thawed
 - 1 box of prepared pie crust, room temperature
- Melt butter in pan; add onions and cook until tender. Add flour, salt and pepper; blend well. Add broth and milk and cook until thickened. Add chicken

and mixed vegetables; stir until well blended. Place one of the pie crusts into a 9-inch pie pan; add chicken and vegetables and top with remaining pie crust. Seal edges and cut three slits in top crust. I like to use an egg wash over the top and edges but not necessary. Bake at 425 degrees for 30-40 minutes, covering the edges with foil or crust cover the last 15-20 minutes. Let set 5-10 minutes before cutting and serving.

NOTE: I've made with leftover turkey or rotisserie chicken and even canned chicken.

- Millie Conger, Tecumseh:**
 - HAM & POTATO CASSEROLE**
 - 2 pounds hash browns, thawed
 - 1 can cream of mushroom soup
 - 1/2 cup melted butter
 - 2 cups sour cream
 - 2 cups cubed ham
 - 1/2 teaspoon pepper
 - 1/3 cup chopped green onions
 - 1 1/2 cups grated Cheddar cheese
- Topping:**
2 cups crushed Corn Flakes
1/4 cup melted butter
- Combine all casserole ingredients and mix well.

Pour into a 9-by-13-inch baking dish. Combine topping ingredients and sprinkle on top. Bake at 350 degrees for 1 hour.

Rose Edwards, Stillwater, Oklahoma:

- ICE CREAM PIE**
 - 20 Oreos
 - 1/2 cup butter, melted
 - 2 1/2 cups French vanilla ice cream, divided
 - 1 1/2 cups fudge sauce, divided
 - 2 cups pecans, divided
- Crush Oreos and add melted butter. Press into a 9-inch pie plate. Press in half of the ice cream and over it spread half of the fudge sauce. Top with 1 cup pecans. Layer remaining ice cream, fudge sauce and pecans. Cover and freeze for 12 hours.

With permission, this recipe is being shared from the 14 Hands Ranch Newsletter, Jada Sharp, Leonardville.

www.14handsranchks.com
We bake a lot and cook most of our meals from scratch so I am always looking for new recipes or reading cookbooks. However, like

everyone, we have our tried-and-true favorites. This month I would like to share our recipe for Applesauce Muffins. We have been making a lot of these because they are quick, easy and everyone here likes them. I use cinnamon applesauce for this recipe because that is what I have in my pantry from when I canned apples. These would freeze really well if you have any last long enough!

- APPLESAUCE MUFFINS**
 - 1 cup butter
 - 1 cup sugar
 - 1 cup brown sugar
 - 2 large eggs
 - 3 teaspoons cinnamon
 - 2 teaspoons baking soda
 - 1 teaspoon allspice (optional)
 - 1/2 teaspoon salt
 - 4 cups all-purpose flour
 - 2 cups applesauce
- Preheat oven to 400 degrees. Cream butter, sugars and eggs until smooth. Add the rest of the ingredients and mix well. Fill muffin cups 3/4 full and bake for 15-18 minutes or until done.

Kansas Women Leaders To Gather For Conversation, Celebration And Connecting

TOPEKA - The Kansas Chamber and the Greater Topeka Partnership announced they will host the 2023 Women's Legislative Social on March 22 from 4:00 p.m. to 6:00 p.m. at the Topeka Country Club in celebration of Women's History Month.

"Kansas women play a significant role in our state - at home, at work, and in the Kansas Legislature, said Kansas Chamber Vice President of Communications Sherriene Jones-Sontag. "Women's History Month in March is a great opportunity to recognize and celebrate their impact in our communities and great state."

This year's honored guests will be Kansas women elected to the Kansas House of Representatives and Kansas Senate.

"Women are making history around the country, shattering records for elected representation at all levels," said Glenda Washington, chief equity and opportunity officer for the Greater Topeka Partnership. "At this event, I'm looking forward to women in Kansas having the opportunity to learn from women in elected leadership throughout the state. The 2023 Women's Legislative Social will provide a chance for them to network with each other, share experiences, and learn how they can use their voices to tell their own stories and advocate for their priorities."

The Social is open to all women and those who support them. To register go to <https://web.kansaschamber.org/events/2023-Kansas-Women-s-Legislative-Social-3146/details>

To learn more about supporting the Social, contact Sherriene Jones-Sontag, Kansas Chamber at sherrienes@kansaschamber.org or Ashlee Spring at ashlee.spring@topekpartnership.com.



Home and Away

For The Ones You Love

By Lou Ann Thomas

Happy Valentines Day! Or, if you prefer, have a Happy Gal or Palentines Day. After all a day stoked with chocolate, roses and sentiments of love and appreciation shouldn't be limited to only those who are living in Coupledome. The rest of us deserve some pampering too.

Let's treat ourselves with the same tenderness and appreciation as we would give another whom we loved and cherished. All that good stuff shouldn't be reserved only for a partner.

Self-love is defined as "an appreciation of one's own worth or virtue; proper regards for and attention to one's own happiness or well-being". Some believe that it sounds selfish to love and appreciate yourself, and to put your attention on your own well-being. But how many unhappy people who don't believe they are worthy of love are able to love and appreciate others? It's true that you can't give what you don't have. Self-love is the most powerful form of love and is encoded inside of each of us, we just need to connect with it. Then, and only then, can we let authentic love flow through us and out into the world to others.

This Valentine's Day is the perfect time to celebrate your own goodness, worthiness and pure lovability. Buy yourself a box of chocolate if you'd like. And don't even think about waiting until later this week when they are all half price. Splurge! You deserve it. Take yourself out to a nice dinner or prepare one at home if you'd prefer. Take a walk

in a setting that makes you feel connected to the natural world, or that refreshes you. Take a salt or bubble bath, read a favorite author or poet, listen and dance to some of your favorite music. There are no limitations, and the only rule is that you do things for yourself that you enjoy, that will make you feel uplifted and loved from the inside out.

You are the person with whom you spend the most time in life, so you are also the person whose voice you hear the most. What does that voice say to you? Is it positive? Supportive? Does it comfort and care for you? Do you talk more appreciatively to your friends than you do yourself? If so, it's time to "autocorrect" anything you say to yourself that isn't loving and kind.

Does what other's think of you bear more weight on your confidence, courage and worth than your own thoughts? That's called People Pleasing and it's a waste of time. Even if you could control someone else, what others think of you is none of your business.

A mentor once told me that there are only two people we need to please in life. They are the eight-year-old version of ourselves and the 80-year-old version of ourselves. If both versions are happy with the way you are living, then you're doing a good job of creating a great life.

So, Happy Valentine's Day! Give yourself some love. You deserve it!

Check out Lou Ann's blog at: <https://louanthomas.blog>

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By
Kelsey
Pagel

Plants and Marriage Both Require TLC

I kill plants. Not a great trait for a farmer, but here we are. I love plants. I want houseplants, landscape plants, fruit trees and vegetables and all kinds of plants. But they don't like it here. I always think I'm going to have a garden. This time of year, we're doing a lot of work on the planter and drill getting them ready and I start thinking that it will be a good idea to have a garden. Mind you, we didn't garden growing up so I have zero idea what I'm doing. I always think I want to, though.

I start plants inside from seeds. And then just about the time they're ready to go outside, we get really busy on the farm and my plants get forgotten. I brought some flowers inside to save through the winter. The last of those are dying a slow death. I don't know what I do wrong. I try really hard not to over- or under-water. I have them by the light. They just refuse to grow for me.

My mom started me on my houseplant journey. She always had plants on our indoor porch/mud room area, but I never really had any interest in them. She bought me a Peace Lily for my birthday one year after I was married and the collection has grown. That Peace Lily is still alive, though it's come through some hard times that I didn't think it was going to make it through. She has since bought me a Jade tree, crown of thorns (which Matt swore he was going to spray because it looked like a noxious weed when we got it), peperomia, philodendron, spider plant and aloe plant. I have also acquired a Peace Lily from Matt's grandpa's funeral, a pineapple plant that I grew from a store-bought pineapple and various herbs and green onions when I think to water them. Plants make me happy. So I have them. Whether I'm great at making them flourish or not, I like them.

News flash: farming is stressful. Bet you've never heard that before. But it is. Life is so unbelievably short. Don't work your whole life and blink and realize you missed it because you were working. I've said it before and I'll say it again: this farm is not my dream. It's Matt's. Matt wants me here working with him on the farm. I choose to enjoy most of what I do. But I also choose to do things for me too. I write. I pursue my interests. I play with fresh milled flour products and selling those. I have my dog, cats, chickens and my favorite cows. I buy things for the house that make it our home. I don't care if Matt never sees or notices, I do.

I spent the first several years of our marriage feeling guilty when I wasn't working beside him. We don't have kids and I thought my role was to be

beside him every hour he was out. At about year six, our marriage got really hard (we're working on year 10). We kept pushing against each other. We kept fighting. In this last year, we've had several come-to-Jesus moments and had some hard talks. I'm not saying we have it all figured out and that we aren't going to fight. But, in general, the last four-ish months of our marriage have been the best that it's been since the beginning.

I'm not sure why I'm telling you this, other than, every time I scroll Facebook, I see a fellow farm wife struggling with all the things I'm struggling with: the farm is more important, there's not time or money for date nights, I feel like I'm doing all the housework alone, he's always working and when he's not working, he's thinking about working, etc. And I see both sides of the comments: the farm has to be important, it's how we make our living, go to him. Or this isn't 1940, stand up and don't take his nonsense. And I struggle with both of those answers. I'm no expert in the marriage realm, for sure. But, I'm finding that when I'm happy, personally, my marriage is a lot better. I'm finding that the farm doesn't end if I'm not there every second he is. There are seasons and some of those seasons I spend a lot of time on the farm, going to him when I need time. And then there are seasons that I don't pursue him as much and focus on my things. Sometimes these seasons change by the hour. That's the hard part. There's no set schedule. We have to adjust constantly to make it work. But now, I feel like we're working together instead of against each other.

All I know is marriage is not black and white. My marriage is different than yours. I know that my goal in life is to wake up on my last day, holding hands with the man I built my life with. I want to love him and be happy with him. And that takes work today and tomorrow and the next day. A good marriage isn't an accident. It's hard work. And farmers know what hard work looks like. Anyways, it's time for some fresh milled pancakes for supper so until next time; grace and patience.

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.

Kindness Counts: Valentine's Day Not Just About Romance Child Development Specialist Says Everyone Can Practice Kindness

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

MANHATTAN – It's February, and love is in the air, which means many have turned their thoughts to red roses, chocolate and dreamy greeting cards.

But Kansas State University child development specialist Bradford Wiles says it can also mean something more simple: Kindness.

"I always implore people to be kind to themselves (because) it's really easy to not be kind to ourselves," Wiles said.

"We make mistakes, but then we ruminate on them. We allow them to dominate thoughts about something that otherwise would be just fine. We need to learn to be kind to ourselves, as well."

Wiles said Valentine's Day celebrates love, "but a key component of that is kindness – kindness to our partners, kindness to our children, kindness from sibling to sibling. And then there is kindness to our classmates and peers."

"That's the kind of love

that everyone can practice."

Children, he adds, learn love and kindness from the adults in their lives.

"The reality is that the earlier you learn about expressing feelings about empathy – especially understanding what other people are doing and feeling and thinking – and making a habit of being kind, then the easier it is for you to do that throughout your lifespan," Wiles said.

"And I can tell you that people who practice kindness, people who practice gratitude, are just healthier, happier and better adjusted people. The research bears that out unequivocally. And it's not that they're kind because they're healthy and happy. They're healthy and happy, because they're kind."

Wiles noted that children who have an orientation toward fear and suspicion often get that through early experiences.

"Now, I want to be really clear that you can overcome some of those things

in your life," he said. "But the mountain that you'll have to climb becomes a mole hill if you're already practicing kindness."

Children and Valentine's Day

Children typically don't begin to view Valentine's Day in terms of romantic love until later in their school years. Their first experiences take place within their family structure.

"At home, it's really a chance for parents and primary caregivers to express love, comfort and support for their child in ways that are very healthy, that clearly don't have the romantic component," Wiles said. "The home is a great place to leverage the chance to really talk about how much you love and support your child, while making them feel loved and included."

Wiles said parents should encourage children to actively engage in showing love toward family members, as well.

"As parents, we typically have this viewpoint (during the holidays) that

we do things for our children and rarely do they do things for us," Wiles said. "Valentine's Day gives you a chance to provide gratitude for the love you feel toward them, but also the love you receive from your children."

"And so it's a really good opportunity to help your children understand that they're a partner in this relationship too. They bring you joy and that feeling of love and satisfaction, and they should know that it's not just a one-direction type of dynamic. It's empowering for them. It helps them understand that they're not just being acted on by the world, but they can act on the world as well."

More information on child development is available online from K-State Research and Extension.

Links used in this story: Applied Research in Child Health and Enhancing Resilience, www.hhs.k-state.edu/ahs/extension/child-development

Have You Checked Your Heart? K-State Food Scientist Shares Tips To Improve Heart Health

By Maddy Rohr, K-State
Research and Extension
news service

MANHATTAN – The story of a professional football player suffering a heart condition while on the field has recently drawn national headlines, but a Kansas State University food scientist said it's important at all times to prioritize heart health.

Karen Blakeslee said heart disease is the leading cause of death in the U.S.

"Cardiovascular disease includes all types of diseases that affect the heart and blood vessels like stroke, coronary heart disease, heart failure and peripheral artery disease," Blakeslee said. "Coronary heart disease is when the arteries get clogged with plaque which restricts the flow of blood."

The American Heart Association recognizes February as American Heart Month, a time when the nation spotlights heart disease. Blakeslee recommends learning about your family health history. If heart disease runs in your family, you could be at an increased risk.

"Smoking is a risk factor, so take steps to stop smoking to improve heart health," Blakeslee said. "Be physically active with activities you enjoy. This can also reduce stress, another factor for heart disease. Taking walks is a great place to start and you can get a kick start with Walk Kansas 2023."

Heart health can also be improved by eating more fruits, vegetables and whole grains each day. Cut back on high-fat foods and reduce sodium intake.

"According to the National Heart, Lung and Blood Institute, more than 800,000 people die of cardiovascular disease each year in the U.S. That means 1 in 3 deaths are associated with cardiovas-

cular disease," Blakeslee said.

Additional self-care tips Blakeslee suggests include:

* Check your blood pressure and know what the numbers mean for you.

* Make healthy eating goals and simple changes to your diet for big benefits.

* What is your wellness routine? Part of that is getting quality sleep and reducing stress.

* Treat yourself! You deserve some fun to break up your normal responsibilities.

* Who inspires you? Those "feel good" people can improve your heart too.

Learn more at the National Heart, Lung, and Blood Institute website.

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

Links used in this story: Rapid Response Center for food science, https://www.rrc.k-state.edu

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

Walk Kansas 2023, https://www.walkkansas.org/

National Heart, Lung and Blood Institute, https://www.nhlbi.nih.gov/education/american-heart-month

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

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Make a planting checklist for 2023

Anticipation builds as corn and soybean farmers prepare for a new season. One of the best ways to set up crops for success this year is to build a plan with specific yield goals.

"There's an intense focus on protecting input investments and making the most of every bushel," said Kurt Curry, area business development manager for the Brevant® seeds brand. "At the end of the day, every extra bushel that goes in the combine

improves your bottom line. It's critical to execute a plan that protects yield potential from Day 1."

Production plans should focus on selecting the most effective products, planting dates and rates for each acre, added Brook Mitchell, retail product agronomist for the Brevant seeds brand.

"Having clear yield goals allows farmers and retailers to prioritize decisions that directly impact yield potential and max-

imize their return on investment (ROI)," Mitchell said.

Start strong in 2023 with these tips:

1. Select high-performance seed. "The key is year-in and year-out consistency," Mitchell said. "Choose products with both agronomic and yield stability."

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2. Mitigate plant stress. Corn rootworm, weeds, excessive rainfall and drought conditions contribute to plant stress. Being attentive to nitrogen availability and strategically managing diseases with traits and fungicides improves plant health. Above- and below-ground, Brevant® brand Qrome® products offer proven

insect control and maximized yield potential.

"Protecting nitrogen with stabilizers and planning to make split fertilizer application is critical to managing costs," Mitchell said. "In southeast Kansas and southwest Missouri, we are consistently getting more frequent spring rains, which can cause nitrogen loss due to saturated and warm soils."

3. Have a contingency plan — or two. Weather delays and equipment interruptions are inevitable. Work together with your retailer to adjust plans during the season. Ag retailers are invested in your farm's success and have an expert team on hand to help manage local challenges.

Find your retailer and get crop insights to help protect input investments in 2023 at Brevant.com.

Independent agriculture input supply company Apex Crop Solutions LLC sets its roots in Northeast Kansas

In 2020, Apex Crop Solutions LLC was formed with the goal to bring competitive cash and carry chemical backed by sound agronomic recommendations. The first investment happened when they purchased a property south of the junction of Highway 36 and 99. The rural area of Beattie (1225 Highway 99) is the primary location for the business. In 2021, Apex Crop Solutions took an opportunity to expand by acquiring Twombly Seed Inc. in Highland (704 220th Rd) expanding its offerings in Doniphan County to include Pioneer Seed along with all other inputs. Since 2020, Apex Crop Solutions has invested into new buildings to service these rural areas. Apex Crop Solutions has strategically aligned the business with the right manufacturers to fit local farming operations. Since they are an independent company, they have the freedom to choose which manufacturers and vendors best align with their values. They believe this is a good fit for farming operations in the area because it allows them to focus on value and cost savings to return to their customers. The number one focus since the business's inception is to keep the customers best interest as top priority. To learn more about Apex Crop Solutions check them out on social media, give them a call, or swing by one of their offices.

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NCGA joins effort to protect crop insurance as a critical risk management tool

The National Corn Growers Association joined over 60 groups in sending letters to key decision makers in the Biden administration and Congress opposing cuts to the federal crop insurance program during the upcoming fiscal year 2024 budget and appropriations

processes. "The last several years have brought an onslaught of uncertainty for America's farmers and ranchers — from weather extremes to the disruptions of international markets to COVID-19 and all of its unique challenges," the letter explains. "During this tu-

multuous time, one of the few certainties that farmers could rely on was the protection provided by the federal crop insurance policy purchased with their hard-earned dollars."

Protecting crop insurance continues to be a top issue for NCGA and their grower members. NCGA president Tom Haag has provided congressional testimony on the importance of the program.

"Our number one priority for the farm bill is to protect crop insurance from harmful budget cuts and reforms," Haag said.

The Crop Insurance and Reinsurance Bureau, American Association of Crop Insurers and National Crop Insurance Services lead the crop insurance industry and organized the letter. NCGA joined the letter with others representing farmers, lenders, agricultural input providers and conservation groups.

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A brief soil micro-nutrient overview

By James Coover, Crop Production agent, Wildcat Extension District

In well-pH-balanced soils, micronutrient deficiencies in crops are usually not a big issue in our heavy clay soils, but there are some exceptions. Our soils are naturally high in calcium, iron, magnesium, copper, and molybdenum. Deficiencies in these are rare and normally caused by the high or low potential of hydrogen (pH) that makes them unavailable. The nutrients of boron, manganese, and zinc are a little different though. There are some places where these nutrients don't have a naturally high background level, but they are not always a concern either. All of the micronutrients have different aspects, reactions, and levels of concern in the soil. Calcium and magnesium are technically secondary nutrients, but are close enough for this discussion.

Calcium and Iron: pH Opposites

Our soils have massive, largely immobile, pools

of both calcium and iron. Iron deficiency does occur in our acidic soil, mainly in thin strips along gravel roads. This is due to years of road dust that has an increased pH level above 7.5, where iron can become hard for plants to adsorb. Normally, we are more worried about iron toxicity (root burn) when the pH level gets below 5.5. Calcium does the opposite and is deficient in highly acidic soils. At a high pH, calcium forms in calcium carbonates (lime) and acts as a nutrient buffer in the soil.

Magnesium, Copper, and Molybdenum: Livestock Nutrients

Magnesium, copper, and molybdenum are rarely an issue in crops, but oddly enough, can be problems in livestock. Magnesium deficiency is what causes grass tetany in spring, and sheep are famously sensitive to copper toxicity. Molybdenum comes into play because it has an important balance with copper.

Boron: The Forgotten Micro

Our soils are naturally very low in boron and we can actually fertilize boron into our soils. Yield response is rare in corn, unlikely in soybeans, but has shown results in some alfalfa fields. This nutrient deserves more attention and research for sure. Boron becomes more available in slightly acidic soils but can leech from the soils over a period of time.

Zinc: The One We Know

We know zinc is the best out of all the secondary and micronutrients. We frequently test and fertilize for it. Some fields can be somewhat deficient in zinc and it is easy to add in fertilizer because it can be soil-applied and is immobilized in the soil. Because of this area's zinc mining past, some soils in southeast Kansas and southwest Missouri have incredibly high levels of zinc in the soil.

Manganese: The Odd One

Manganese isn't often a

problem in southeast Kansas, but sometimes it can be found in high pH and sandy soils. Deficiencies can happen here in the same areas where iron can become deficient, for instance near old lime piles and gravel roads. Manganese can't be applied to the soil because it becomes instantly adsorbed. Instead, foliar-applied manganese has shown much better yield results.

All the different ins and outs of micronutrients in the soil can be difficult to understand. Each one has its own compounds,

microbial and plant associations, and often its own field of research. In any case, each one is absolutely vital to the healthy functioning of plants and for yield in the field. To learn more, please come to Agronomy Night on December 7th in Independence. Call the Independence Extension Office for questions, and register 620-331-2690 or visit wildcatdistrict.ksu.edu.

For more information, please contact James Coover, Crop Production Agent, at jcoover@ksu.edu or (620) 724-8233.

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Weeds adapt to fight back against herbicides

Weeds today aren't like "what Mom used to make," says University of Missouri Extension weed scientist Kevin Bradley.

Today's weeds know how to fight back against long-used herbicides and adapt in ways that spell trouble in production agriculture, says Bradley. Officially, Missouri already has 11 different herbicide-resistant weed species. Waterhemp and Palmer amaranth, both weeds in the pigweed family, rule the roost when it

comes to resistant weeds in Missouri, he says.

Resistant weeds are fast outpacing the development of new herbicides. It's not just resistance running amok; it's the type of resistance that concerns Bradley. "Some of the mechanisms responsible for resistance in these weeds like waterhemp and Palmer amaranth aren't like anything we've seen before," he says.

Herbicides focus on specific enzymes that bind to target sites. Histori-

cally, weeds have adapted through mutations in their internal enzymes that result in changes to the those target sites. This has been one of the most common resistance mechanisms identified in weeds for the past several decades.

More recently, weeds have been developing metabolic-based resistance, or non-target-site resistance, which lets plants convert the herbicide's active ingredient into inactive metabolites that

don't kill the plant. Worse yet, metabolic resistance can confer resistance to other herbicides within the same chemical groups and perhaps even to herbicides in other groups. It's possible that metabolic resistance can confer resistance to new herbicides that have never been sprayed in that field. This makes weed control even more unpredictable and concerning, says Bradley.

"Unfortunately, the trend with resistant pigweeds like waterhemp

and Palmer amaranth right now is metabolic resistance," says Bradley. "When weed scientists have investigated the 2,4-D, dicamba or group 15 resistant pigweed populations that have been found in some states in recent years, they have found metabolic resistance mechanisms in these weeds more often than not," he says.

"Keep mixing and rotating herbicide sites of action, but remember, herbicides alone aren't a

silver bullet to solve the resistance problem."

Meanwhile, Bradley is studying other ways to control weeds and prevent weed seeds from returning to the soil. Methods include weed electrocution and a seed destructor that crushes seeds during harvest. Bradley says that it is going to take more than herbicides alone to solve this problem with resistant weeds.

Visit weeds.cscience.missouri.edu for more information.

Strengthening sorghum against a worldwide fungal threat

A gene discovered by a team of Agricultural Research Service (ARS) and Purdue University scientists could help fortify the defenses of sorghum to anthracnose, a disease of the cereal grain crop that can inflict yield losses of up to 50 percent.

The discovery, to be reported in an upcoming issue of *The Plant Journal*, opens the door to breeding disease-resistant sorghum cultivars that are less reliant on fungicides to protect them, reducing growers' production costs and safeguarding grain yields and quality, among other benefits.

Sorghum is the fifth-most widely grown cereal grain crop worldwide, providing consumers not only with a source of food containing 12 essential nutrients, but also forage for livestock and material for bio-based energy. However, unchecked with fungicides or other measures, anthracnose will attack all parts of a susceptible cultivar, often forming reddish lesions on leaves and the stem as well as causing damage to the plant's panicles and grain heads.

Genetic-based disease resistance is the most effective and sustainable approach to combating anthracnose in sorghum. However, how this resistance actually works in the plant is poorly understood, according to Matthew Helm, a research molecular biologist at ARS's Crop Production and Pest Control Research Unit in West Lafay-

ette, Indiana. That knowledge gap is worrisome because of the genetic variability among different races (or types) of the anthracnose fungus and their potential to overcome a cultivar's resistance genes over time. Additionally, anthracnose resistance can be temperature-dependent, potentially leaving a sorghum crop vulnerable to infection if temperatures soar above a certain threshold.

Fortunately, Helm and a team of Purdue University scientists led by Demeke Mewa have begun to close this gap. They identified a disease-resistance gene that orchestrates a series of defense responses to early infection by the anthracnose fungus, preventing its spread to the rest of the plant and grain heads.

Additionally, sorghum plants carrying the resistance gene, known as "ANTHRACNOSE RESISTANCE GENE 2" (ARG2), successfully withstood the fungus even when greenhouse temperatures were increased to 100 degrees Fahrenheit (38 degrees Celsius). This temperature stability could be a potential boon for sorghum production regions of the world where growing season temperatures can reach those levels.

The team also determined that ARG2 helps make ("encodes for") a protein that is concentrated in the plasma membrane of resistant sorghum cells. There, it acts as a kind of intruder alert that's triggered by certain proteins used by the anthracnose fungus to infect the plant.

"These results significantly advance our understanding of how sorghum detects fungal pathogens and opens the door for engineering new disease resistances against plant pathogens of cereal grains," the team writes in an abstract summarizing their findings in *The Plant Journal* paper.

ARG2 and its protein don't protect sorghum from all races of anthracnose. However, combining ARG2 with other similar genes could help broaden that protection—either through conventional plant breeding methods or biotechnological ones. With ARG2's discovery, scientists now have a key to unlocking a fuller understanding of how the mechanisms of anthracnose resistance work and making the best use of them as a disease defense that growers worldwide can count on.

In addition to Mewa and Helm, the *The Plant Journal* paper's other authors are Sanghun Lee, Chao-Jan Liao, Augusto Souza, Adedayo Adeyanju, Damon Lisch and Tesfaye Mengiste—all of Purdue University.

KSU guide can advise on weed/brush control practices

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

University of Missouri researchers surveyed 66 pastures between 2015 and 2017 looking at the average number of weeds per acre. Annual broadleaf weeds led the way, peaking at close to an estimated 7,500 weeds per acre. Perennial broadleaf weeds were a close second, peaking at an estimated 5,000 weeds per acre. Total weed pressure (the sum of annual and perennial grasses and broadleaves plus sedge species) reached almost 20,000 weeds per acre.

While weed numbers were plenty high, weed pressure distribution added another angle to weed management efforts. Annual broadleaf weed pressure jumped early and remained steady through the growing season. In contrast, annual grasses weren't prevalent until late summer.

Weeds don't behave in a way to make control a one-shot process, requiring an integrated approach instead. It can be difficult to

know what that might look like, however, and that's where a reference in the 2023 KSU Chemical Weed Control Guide might be of value.

At the front of the 25 pages dedicated to pasture and rangeland brush/weed control is a chart listing our common forage land weeds. In addition to dividing them by growth cycle (annual/biennial/etc...), it also gives control efficacy ratings by mechanical means (mowing, cutting, etc...), burning, and herbicide programs. It's not a one-stop control shop, but it can be a start towards enhancing an integrated control management program for grassland acreages.

If you're interested in taking a first look at integrated control options, hard copies of the 2023 KSU Chemical Weed Control Guide are now available from any Meadowlark Extension District Office. To look at specific sections or to download a full digital copy, visit <https://www.bookstore.ksre.ksu.edu/pubs/CHEMWEEDGUIDE.pdf>.



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I am writing to ask for your help.

You, Dear Reader, Dear Viewer, are our greatest resource. You are why we exist and what we work for.

Like any living thing, Around Kansas continues to evolve. First, it was Frank Chaffin and then he was kind enough to add me. When his health forced him to leave, I was

on my own. Then, Michelle Martin joined me and now she is on to further her career as a professor. Back to being on my own, and while I love to visit places all around Kansas, I can't be everywhere! That's where you come in!

You have been sharing photos on our Around Kansas Facebook page, much to our delight. Now, I invite you to share your

videos as well. Keep them short – one to five minutes, and film horizontally. Share your events, your history, your scenery. Feel free to say, "This is Joe Schmo reporting from Somewhere Around Kansas" and proceed to tell us where your somewhere is!

Stay tuned as things change and as we expand. We have already added the Around Kansas blog and the Ad Astra blog as well as the new YouTube channel, Around Kansas/Ad Astra Eating. Check them out and share your ideas!

Deb Goodrich is the host of Around Kansas and the Garvey Texas Historian in Residence at the Fort Wallace Museum. She chairs the Santa Fe Trail 200, 2021-2025. Contact her at author.debgoodrich@gmail.com.

U.S. CattleTrace announces 2023 leadership

U.S. CattleTrace, the industry-driven program for animal disease traceability, has announced the appointment of leadership for their producer Board of Directors for 2023.

In 2018, U.S. CattleTrace was formally established as a private, not-for-profit corporation to securely maintain and manage the data collected as part of the disease traceability

pilot project. The board consists of representatives from cow-calf, livestock market and cattle feeding sectors.

For this year's leadership, Wes Killion, COO of Beef Northwest, was appointed to serve as chairman of the board, with Ken Griner of Usher Land and Timber transitioning to serve as past chairman. Mark Gardiner of Gardin-

er Angus Ranch will serve as the chair elect along with Joe Leathers of 6666 Ranch, appointed to serve as vice chair.

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Grass & Grain Area Auctions and Sales

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

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Online Only Auction (bidding ends Feb. 22, 2 PM) — Large amount of Cattle Equipment, Tools, Vehicles, Hay & more (items located near Eureka) selling for Suhn Cattle Company Semi-Retirement and held online at Sundgren.com. Auctioneers: Sundgren Auction & Realty.

Sealed Bid Land (sealed bids due by Feb. 28, 5 pm) — Approximately 230 ac. of Nemaha County Land with 152 ac. m/l pasture & 78 ac. m/l of cropland selling for Ardan J. & Evelyn M. Rottinghaus and Francis E. & Sylvia J. Haug Trust. Bids go to O'Keefe Law Office (okeefelaw@rainbowtel.net) by mail or hand delivered.

Sealed Bid Only Land (sealed bids due by March 2, 3 pm) — 159 acres m/l of Tillable Farmland in Ottawa County for Bank of Tesco. Email bids to brian@kansaslandpro.com. Go to www.uccrossroads.com for more information. Auctioneers: United Country Real Estate, Crossroads Auction & Realty, Brian Rose & Terry Zimmer.

February 13 (Monday) — Real Estate auction consisting of 160 acres m/l of Rice County Land including 119.27 ac. m/l tillable land, 22.43 ac. CRP and 18.3 ac. of trees, waterways and wildlife cover held at Little River for Deborah Polaski. Auctioneers: Oswalt Auction & Realty, Bill Oswalt, broker.

February 16 — Nemaha County Real Estate auction consisting of 155 ac. m/l of brome hay & mixed grass pastureland, good fences, solar powered well & 2 ponds held at Holton for William (Dale) & Ilah Rose Askren. Auctioneers: Harris Real Estate & Auction, LLC., Dan

Harris.
February 16 — Lee Valley, Inc. Annual Spring Consignment auction including tractors, tillage, harvest & grain handling, trucks, trailers, vehicles, antiques, hay & livestock, construction, planting & spraying & miscellaneous held live at Tekamah, Nebraska with on-line bidding available at www.EquipmentFacts.com. Auctioneers: Lee Valley, Inc.

February 16 — Sumner County Land Auction consisting of 335 acres m/l of Farmland, Pasture, Hunting Land with 225 ac. m/l of FSA cropland acres & 110 ac. m/l of pasture held at Argonia for The Garnett G. Clayton Trust No. 1. Auctioneers: United Country Real Estate, Crossroads Auction & Realty.

February 18 — Estate auction consisting of an Excellent selection of antique & vintage furniture, repro-style antique furniture & other furniture, glassware & pottery, clocks, statues & figurines, collectible cookie jars & pails, collection of Timex mini clocks & more, kitchenwares, tools & much more held inside The Woodshed Event Center in Topeka. Auctioneers: Whitmore Estate Liquidator.

February 18 — Fiesta (old & new colors), lots of artwork & pictures, Pottery, Depression glassware, quilts, purses, costume jewelry, many toys, dolls & doll accessories, fishing items, wood ammo boxes & a large collection of other items held at Salina for Ilene Lambert. Auctioneers: Thummel Real Estate & Auction, LLC.

February 19 — Antiques & collectibles inc.: Furniture, Japan slot machine, large chicken collection, perfume bottle collection, doll collection, toys, kerosene lamps, jewelry, glassware, Christmas items, books & much more held at Salina for Marla (Leander) Byquist Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

February 19 — Trauernicht Simmentals sale held at the Trauernicht sale facility, Wymore, Nebraska. Selling 100 yearling bulls, 40 advanced age bulls & 30 fall bred females.

February 20 — Land auction selling 338 acres m/l Ottawa County land in 2 tracts. T1: 178.9 ac. m/l with 155.05 ac. tillable cropland, 23.85 ac. timber/river; T2: 159.2 ac. m/l with 146.43 ac. tillable cropland, 12.77 ac. waterways & native grass held

live at Salina for Graves Farms, LP. Simulcast bidding at apwrealtors.hibid.com. Auctioneers: Coldwell Banker APW Realtors, Chris Rost & Mark Baxa.

February 20 — Shawnee County Land Auction consisting of Tract I: 40 ac. m/l mostly tillable; TII: 57 ac. m/l, 38 ac. m/l tillable, great building opportunity or excellent hunting ground located in Berryton area on SE 89th St. held live at Topeka and online (www.superiorlandgroup.hibid.com) for Kennedy Revocable Trust. Auctioneers: Superior Real Estate & Land Group, Wischropp Auctions.

February 23 — Land Auction consisting of 76.84 acres m/l of Chase County Flint Hills Cropland, Rec. Pasture & Hay, great hunting, artesian well & more held at Cottonwood Falls for Larry & Thelma Blosser. Auctioneers: Griffin Real Estate & Auction.

February 24 — Jamison Herefords sale held at Quinter. Selling 115 two-year-old bulls.

February 24 — RS Angus Annual Bull & Registered Female sale (1PM) held at Western State Bank Expo Center, Dodge City.

February 25 — Antique & Collectible auction including antique furniture (oak, walnut, bookcases & more), nice oil lamps, dolls, old pictures & prints, mirrors & much more, glassware including 75 head vases held at Leoti for The Late Teresa Duncan & Larry Duncan. Auctioneers: Berning Auction, Inc.

February 25 — Tractors, Combine, corn head, header trailer, field cultivator, disk, batwing mower, balers & more farm equipment, Earth Mover, hand tools & more held live at Overbrook with Online Bidding at EquipmentFacts.com for Kathy Robinson-Primm & The Late Mike Primm. Auctioneers: Wischropp Auctions.

February 25 — Very high quality collection of Cocks inc.: Red Wing crocks, churns, jugs, Western, 6 gal. birchleaf & more, antique furniture, Dazey churns, pictures, glassware, lamps, toys, Lionel train cars, JD belt buckles & lots more collectibles held at Salina for Twila Pressler. Auctioneers: Thummel Real Estate & Auction, LLC.

February 25 — Furniture, Antiques, Primitives & Collectibles inc.: fancywork, crocks, Coca Cola thermometer, books, jew-

elry, vintage toys, misc. glassware, graniteware & more, misc. household, tools & more held at Portis for The Late Leo & Joann Leach. Auctioneers: Wolters Auction & Realty.

February 25 — Coin auction with over 500 Lots to be held at Emporia. Auctioneers: Swift-n-Sure Auctions & Real Estate.

February 25 — Special Offering of spacious building lots from 1.7 to 4.45 acres conveniently located in the Highway 24 corridor between Manhattan and Wamego. Lots are build ready. Auction to be held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC. in cooperation with Flint Hills Outdoors, LLC.

February 25 — Post Rock Cattle Company sale held at Barnard. Selling 115 Gelbvieh and Balancer Bulls, 5 Angus Bulls and 80 Females.

February 25 — Tegtmeier Polled Herefords sale held at Burchard, Nebraska. Selling 35 Polled Hereford Bulls, 40 bred and open females.

February 26 — 1987 Mercedes 420 SEL car, 1995 Jeep Cherokee, Cub Cadet Super LT riding mower, Kayak Storm, Collectibles inc. 50+ Beer Signs, mounts & antlers, clocks, collectibles & household for Melvin D. Haverfield Jr. Living Trust. Also selling a very large KU Jayhawk Collection inc. autographed items, pieces of the floor, posters, medallions, jerseys & much more held at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

February 25-March 4 — Hofmann Simmental, Buy Your Way Bull Sale held at Clay Center.

March 2 — Jensen Brothers sale held at the ranch in Courtland selling 80 Bulls.

March 3 — Land Auction consisting of 470 acres m/l of Doniphan County land being sold in 6 tracts (ranging from 30 ac. to 138 ac.) held live at Troy for Adrian & Mary Lou Boeh Trust. Online bidding: www.MidwestLandandHome.com. Auctioneers: Midwest Land & Home, Jeff Dankenbring, listing broker.

March 3 — K-State Legacy Sale held at Stanley Stout Center in Manhattan selling 40 bulls (20 Angus, 10 Simmental & 10 Hereford).

March 4 — Cars, Pickups & Tractors inc. 1997 Ford F150, 1996 Ford F150, 1963 Ford Fairlane, early 60s IHC pickup, 1955 Dodge Royal, 1954 Chevy 4-door, 1951 Chevy 4-door, 1951 Ford 2-door, 1967 Ford pickup, 1969 Ford pickup, 1967 Lincoln Cont., 1984 Lincoln, 1965

Grass & Grain, February 14, 2023

Allis D17, Minn. Moline R, JD D & more, tools & yard equipment, Collectibles inc. Coca Cola coin op machine, pedal tractors & more held at Lebanon for Joe Delimont. Auctioneers: Thummel Real Estate & Auction, LLC.

March 4 — Vehicles inc.: 1996 Ford F150 XLT, 1996 Ford Econoline E350 construction van, JD garden tractor, JD dump lawn trailer, paddle pedal boat, generator, tools, collectibles included furniture, Heston belt buckles, Black Americana, glassware & more, household, coins & lots more held at Lawrence for Ray Gottstein (Baldwin City) & a Private Lawrence seller. Auctioneers: Elston Auctions.

March 4 — Laffin Ranch sale held at the ranch in Olsburg. Selling 100 bulls & 40 females.

March 4 — Loving Farms sale held at Pawnee Rock. Selling 100+ Short-horn & Shorthorn plus bulls & heifers.

March 5 — 21st Annual Gold Bullion Group Sale held at Schaake Farm sale facility, Westmoreland. Selling 80 Simmental & Simangus Bulls and 50+ commercial bred pairs and open.

March 6 — Don Johnson Bull Sale held at Salina. Selling 75 yearling & 18 month old bulls.

March 6 (Monday) — Lyons Ranch 35th Annual Angus Bull Sale held at the Ranch South of Manhattan, 12:30 pm., selling 120 fall Angus bulls.

March 7 — S&S Polled Herefords sale held at Guide Rock, Nebraska selling 73 lots inc. 40 two-year-old bulls, 33 bred two-year-old heifers.

March 8 — Stucky Ranch sale held at Kingman selling 150 Age advance reg. Angus bulls.

March 8 — Flat Iron Angus sale held at the ranch headquarters in Haddam selling 30 yearling Angus bulls, 10 yearling SimAngus bulls, 11 18-mo-old SimAngus bulls, plus select groups of spring heifers.

March 9 — Marshall County Land Auction consisting of a mixed used property with 157 ac. m/l. Approximately 88 ac. of dryland crop ground and 67 ac. of native grass held at Blue Rapids for Milo Kratochvil Family. Listing broker: Brice Ebert, Resource Real Estate Group. Auctioneers: Crossroads Real Estate & Auction, LLC.

March 9 — BJ Angus Genetics sale held at the ranch near Manhattan. Selling 90 bulls, 75 reg. Females, 25 fall bred commercial heifers.

March 11 — Over 100 Toy Tractors & more selling

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at Auction held at Beat-tie (inside Community Center) for Don Groshong. Auctioneers: Olmsted & Sandstrom.

March 11 — Rippe Gelbvieh sale held at the livestock barn in Belleville selling 101 bulls, 60 Black Balancers, 19 Purebreds, 16 Red Balancers, 12 fall bred heifers, 50 black & red commercial open heifers.

March 11 — May-Way Farms Sale held at Baldwin City selling 65+ 18 mo. & yearling Reg. Angus bulls and select females.

March 14 — Bar Arrow Cattle Company sale held at the ranch in Phillipsburg selling 80 Gelbvieh and Balancer Bulls & 15 elite Gelbvieh and Balancer heifers.

March 15 — Woodbury Farms sale held at Overbrook Livestock Comm. Co. in Overbrook selling 15 Angus bulls, yearlings & 2-year-olds, 50 reg. & comm. open yearling heifers & approx. 10 young pairs.

March 17 — Sunflower Genetics Annual Production sale held at the ranch near Maple Hill.

March 21 — Hinkson Angus Ranch sale held at Cottonwood Falls. Selling 90 Angus fall bulls, 15 Charolais fall bulls, 70 commercial fall bred heifers.

March 24 — Barrett Cattle sale held at Maple Hill selling 100 18-mo-old bulls and 20 spring yearling bulls.

March 25 (Saturday) & (Monday) March 27 — 2-Day Auction selling: Day 1, March 25: Lots & lots of shop tools of all types, machinery parts, welders, presses, wrenches, vise grips & much more (500 pallets to sell between 2 days); Day 2, March 27: D7H Caterpillar Bull Dozer, 6 Tractors, Semi tractor & drop deck trailers, 3 NH bale wagons, Lots more shop tools & parts held SW of Seneca for Roeder Implementation, Inc. Dispersal. Auctioneers: Cline Realty & Auction, LLC.

March 25 — Spring Machinery Consignment auction held at Holton (online bidding through EquipmentFacts.com. Auctioneers: Harris Real Estate & Auction, LLC.

March 25 — Annual Farm Machinery & Farm Misc. Consignment auction including farm machinery, trucks, trailers, livestock equipment, farm tools & misc. held at the North edge of Durham in conjunction with G&R Implementation. Auctioneers: Leppke Realty & Auction.

April 8 — Fink Beef Genetics 37th Annual Sale held at Randolph.

AUCTION

SUNDAY, FEBRUARY 26, 2023 — 10:00 AM

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

CAR, JEEP & KAYAK
Sells at 12:00 noon

1987 Mercedes 420 SEL car loaded 381,828 miles, runs good; 1995 Jeep Cherokee 4-door 221,000 miles; Cub Cadet Super LT 1554 riding mower; Kayak Storm 3 person.

COLLECTIBLES

BEER SIGNS: neon & tin 50+ (check our website for pictures); Indian necklace; snow shoes; skull; sword; horns; Buffalo & sheep hides; fly rods; deer antler cross; deer & elk horns; feather fan; jaw bones; deer mount; antler lamp; skis;

clocks inc: kitchen, wall, mantle & Mastercraft; camel ink well; hand painted table lamp; dresser lamp; covered lion; BoPeep pitcher; glass churn; Roseville; cat cookie jar; RS Prussia cream & sugar; Sleepy Eye mug; Brunswick upright phonograph; household items.

MELVIN D. HAVERFIELD JR. LIVING TRUST

KU JAYHAWK COLLECTION

Very large collection of KU collectibles inc: autographed basketballs; autographed photos; pieces of the floor; Big 8 clock; posters; tickets; schedules; bobbleheads; 14K gold medallions; jerseys; **CHECK FOR MORE COMPLETE LIST & PICTURES ON WEBSITE.**

NOTE: We are selling a collection of KU collectibles and the Melvin Haverfield estate. There is a large collection of beer advertising. Check our website for pictures and a list of KU items at www.thummelauction.com.

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

AUCTION

SATURDAY, FEBRUARY 18, 2023 — 10:00 AM

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

Fiesta old & new colors (disc pitters, gravy, 12" chop plate, 9" dinner plates, ball salt & pepper, other pieces); Weller jardiniere; many pieces of art & pictures; Judith Mackey print "Flint Hills"; Lindsborg school print; Miller Lite & other beer pictures; Pyrex bowls; Old Crow punch bowl; Hull pottery; pink Depression; Lladro figure; black glass; Bavaria china; Art Glass figures; Carter Ink bottle; several dolls; Cuckoo clock; several electric wall clocks; hen on nests; Hummels; many pieces glass; handpainted table lamps;

Aladdin lamps; quilts; quilt tops; signature quilts; tea towels; doilies; many ladies hats; patterns; sewing items; clothes pin bags; batting; yarn; craft items; large assortment purses; knitting needles; costume jewelry; material; Hallmark figures; plastic Coke bottle banks; Coke puzzles; many toys; (Wyandotte chicken; Marx #3 tank; 1939 Pinocchio acrobat; Ideal plastic cars; German sand bucket; farm toys; GI Joe train; tin toys; many other toys); cap guns; Daisy cork gun; doll furniture; child's rockers; wicker desk; sewing

cabinets; dolls; doll dishes; Uncle Sam banks; California Raisins collectibles; Garfield collectibles; children's books; large collection Christmas; granite flour scoop; Goering Hardware Winchester posters; dresser boxes; Bose radio; Browning soft gun case; sea shells; milk crate; post cards; Longaberger baskets; Ty Beanies; Boyds Bears; Radio Flyer collection; folding saw; lighting rod balls; bamboo fly rods; fish floats glass balls; wood ammo boxes; tin types; 6' Werner ladder; large collection of other items.

NOTE: Check our website for pictures at www.thummelauction.com. This is a very large auction. There are many pieces of Fiesta, glass, many toys; several good pieces of art.

ILENE LAMBERT

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

AUCTION

SATURDAY, FEBRUARY 25, 2023 — 10:00 AM

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

CROCKS: Red Wing 4 gal water cooler; winged Jars (1, 2, 3, 4, 5, 8, 10, 12, 15, 20, 25, 30); RW churns (2, 3, 4, 5); RW Jugs (2, 3, 4, 5); KoRec chicken water; Western (2, 3, 4, 5, 8, 8, 8); 6 gal birch leaf; crock hot water bottle; preserve jar; salt crock; crock sackie pot; blue & white crock jug; brown wax seal; other crocks; White Hoosier cabinet; 1 door Hoosier helper; oak 4' floor showcase; green pine cabinet; 20s china cabinet; newer oak 3 door ice box; camel back trunk; pitcher & bowl w/stand; No. 1 & 2 wooden barrel churns; Dazey churns; other churns; butter

molds; Toledo store scales; machine chest; Pictures inc: Parish print, Blue Boy, Pink Lady, Lone Wolf; beaded purses; dresser set; hat pin holder; hat pins; Glass inc: Vaseline; green & pink Depression; Pyrex bowls; wall bracket lamps; Lincoln Drape Aladdin lamp; green Aladdin lamp; LC Smith typewriter; aluminum Christmas tree; copper boiler; wooden bucket; cast iron tea kettle; hay knives; beaters; coal bucket; knives; dinner bell; wall telephone; clock shelf; deer mount; Perfection heater; ice cream dipper; beater jars; milk bottles; granite coffee pot; egg scale;

postage scale; viewer; cast iron boiler; granite pans; wagon seat; walking plow; hames; horse bridles; bridle rosettes; celluloid horse harness rings; horse collar; ammo boxes; brass car horn; wood egg case; wood pulleys; wood bucket; fish creel; paddles; nail keg; lead pot; adjustable squares; wire gauge; wooden corn sheller; pedal grinder; well wheels; railroad lantern; yard art; traps; yard windmill & pump; 2 metal yard chairs; remote car & truck; search light truck; Tonka toys; John Deere belt buckles; Lionel train cars; assortment of other collectibles.

NOTE: The Pressler's collected crocks for many years, this is a very quality collection. There is an entire crock collection from 1 gal. to 30 gal. Check our website for pictures at www.thummelauction.com.

TWILA PRESSLER

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

AUCTION

SUNDAY, FEBRUARY 19, 2023 — 10:00 AM

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

ANTIQUES & COLLECTIBLES

Walnut 6 pc. parlor set; 3 pc. mahogany parlor set; oak flip tray high chair; pattern back rocker; arm office chair; Irrawadey Burma carpet; Eleco Limited Japan slot machine; cherub lamp table; Idophorn floor phonograph; floor lamp w/ stain glass shade; Mini Value 2 burner stove; organ stool; oak fern pedestal; 6 drawer wood spice cabinet; large chicken collection; covered chickens; wood carved bear; Zenith table radio; Tatro table radio; Singer treadle sewing machine; cabinet sewing machine; wicker wheel chair w/mannequin; ladies hat collection; hat display rack; fancy ladies dresser; ladies leather shoes; Perfume bottle collection; many bottles; large tin collection inc: Summer Girl; Lyon; Doehler; Wedding Oats; PAW-NEE, New Speedy rolled oats; others; doll collection inc: bisque, china, celluloid, many Cupid, Campbell Kids;

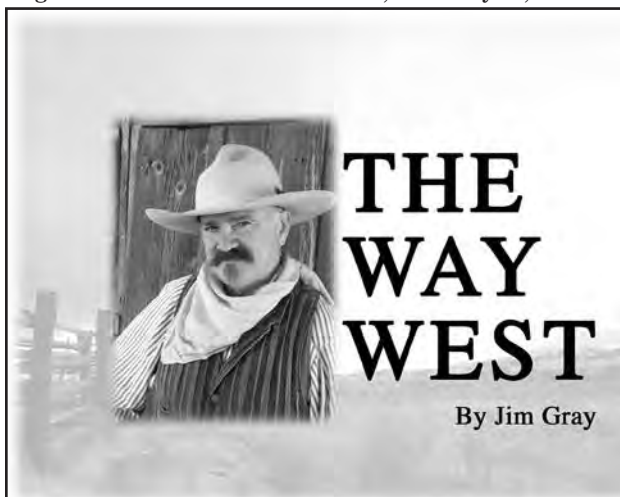
doll kitchen cabinet; child's dishes; child's tea sets; child's toys; doll buggy; celluloid rabbit; ladies powders; many figurines; German viewer cards & viewer; Claude Carbonel figures; Shirley Temple pitcher; cups & saucers; glass candy containers; mini lamps; kerosene lamps; figurines; Oriental vases; Art glass; beater jars; condiment set; pie birds; "The Racket Duckwall Bros Salina" plate; F. Goodholm Lindsborg plate; cut glass pcs; hand painted tea set; head vase; hand vase; pitcher & bowls; figurine dresser lamps; hat pin holder; hat pins; powder jars; jewelry collection; umbrellas; Red Wing buttermilk feeder; 2 gal Western churn; crock jugs; unusual churn; crock umbrella holder; sail boat mixing bowl; refrigerator jars; many pieces of glass; tea pots; BoPeep pitcher; cookie jars; Chez spice set; large collection Tom Clark Gnomes; qt. ice cream freezer; Dazey 4 qt.

churn; Raggedy Ann collection; large collection purses; leather purse; child's button shoes; quilts; dollies; linens; fans; Halloween items; Christmas items; feather Christmas tree; aluminum Christmas tree; Collection pictures; Dutch Boy Paint picture; Lady w/hat pictures; Dolly Dingles pictures; Cupid pictures watching, asleep & awake; dresser boxes; hanky boxes; necklaces; Schlitz neon sign; Wizard Oz lunch box; horse on trike; trike; TV lamp; eye glasses; lap robe; bird cage; horse rug; Lamer Hotel ruler; button hooks; windup monkey; banks (Santa, Globe, others); pottery pieces; glass animals; cameras; candle mold; silver plate items; kitchen utensils; meat cleavers; kitchen choppers; granite items; brass blow torches; tobacco cutter; Miss Liberty sparklers; 45 records; assortment books; magazines; barn lanterns; sled; large assortment of other collectibles.

NOTE: Check our website for pictures at www.thummelauction.com. Marla collected for many years, there are many nice collections. This is a lifelong collection. There are many pieces of glass, figurines, bottles, tins, chickens, lady's items.

MARLA (LEANDER) BYQUIST ESTATE

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



THE WAY WEST

By Jim Gray

A Lovely Sight

When George Washington (G.W.) Brown and George W. Deitzler set out the morning of February 14, 1857 for the valley of the Upper Neosho River many of the best townsites in the developing Territory of Kansas had already been selected. However, being a newspaperman he had heard favorable

reports for that portion of Kansas. Brown was editor of the *Kansas Herald of Freedom*, published in Lawrence.

Mounting their horses they set out on roads "yet unsettled." Brown described the journey as "heavy," owing to a three-hour ride in the mud as they traveled south. They

reached the Santa Fe Road that evening and stayed at the home of Mr. Heberling whose "latch string" was always out "for the weary wayfarer or claim seeker." Thousands of teams traveled annually over the Santa Fe Road. Brown observed, "The trains, for miles in length, remind the observer of oriental practices, when immense caravans journeyed over the plains of Syria and Arabia bearing to the cities of the Mediterranean the wealth of the Indies."

The next day they crossed a bridge at One Hundred Ten Mile Creek. Here the McGee plantation had several negro cabins and a horse-powered saw mill. A little after noon they arrived at Council City (today's Burlingame, Kansas), sixteen miles west of Heberling's place.

Judge Phillip Schuyler and Samuel Caniff of New York established the town of Council City under the auspices of the American Settlement Company. The town was renamed Burlingame later that year of 1857. Brown noted that with its position on the Santa Fe Trail the town was "destined to be an important place in the future history of the Territory."

West of Council City the travelers turned south away from the Santa Fe

Road to cross open prairie. After passing Dragon Creek no settlements were to be found on an otherwise predominating prairie. Brown wrote, "We had no other guide than our pocket compass, save a high bluff some thirty miles to the southwest (near Diamond Springs), which towered above the horizon, looking like a peak of a distant mountain."

Travel continued to be "heavy," with flooding streams difficult to ford. It was four o'clock in the afternoon before they were able to reach the first occupied house after leaving Council City, that of William Grimsley. By evening they made the home of Lorenzo Dow. Dow was one of the first pioneers on the Upper Neosho, eight miles above its confluence with the Cottonwood River. G.D. Humphrey operated a saw mill at the confluence. Several miles below the confluence the abandoned town of Neosho City was visited. Brown didn't explain at the time, but later commented that John Brown (no relation) had robbed the store of its goods. There were six graves, one of which was a woman killed during the attack.

Returning to Dow's place for the night, they awoke to a severe snow

storm that delayed their departure until near noon. Skirting the Neosho they found the crossings impassable, forcing them to continue travel to within eight miles of Council Grove. With night coming on they "tarried with (Eliza) Goddard, an eastern gentleman of capital and energy, who has erected a very lovely home and... has surrounded himself with many comforts which we had nowhere seen in so great perfection since leaving Lawrence... Here was the first place we were able to get our horses into a stable for the night."

The next day, February 19th, they recrossed the river to explore the high rolling prairie between the Neosho and the Cottonwood Rivers. Late in the day while returning to the confluence they were met by several "swells" of the prairie, each offering commanding views of the whole region. "We all stopped and gazed around on the lovely prospects."

On the last swell a town had been planned in the early months of 1856. The project was abandoned because of the political disturbances that followed. This was the place Brown was looking for, but as night was falling they continued toward the Neosho and crossed to return to Dow's place.

They recrossed the Neosho the next morning of February 20, 1857, "scouring the country in the vicinity of the Cottonwood." At noon they returned to the same beautiful elevation they had left the evening before. The swell covered nearly two sections of land. "The sun broke through the clouds and rolled up the curtains... apparently to give us a view of the lovely country which a wise Providence had created for the abode of a high order of intelligence."

Several inches of snow turned the "otherwise blackened prairie into snowy whiteness." To the south a dark line of timber lined the Cottonwood River, framed by the elevated rolling prairie rising above the tops of the highest trees. "It required but a little stretch of the imagination to fancy splendid mansions, thrifty orchards, fruitful vineyards, and 'the cattle of a thousand hills'..."

Emporia, Kansas was born that beautiful winter day as G. W. Brown and his companions gazed upon "the loveliest sight in the world," only to be found on The Way West.

"The Cowboy," Jim Gray can be reached at 220 21st RD Geneseo, KS Phone 785-531-2058 or kansascowboy@kans.com.

DON'T WAIT PLACE A CLASSIFIED AD ONLINE TODAY AT GRASSANDGRAIN.COM

Subscribe Too!

Farmers & Ranchers

AUCTIONS EVERY MONDAY & THURSDAY

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

TOTAL FOR THE WEEK: CATTLE 6,698

BULLS: \$101.50-\$112.50 COWS: \$85.50-\$97.00

STEERS

300-400	\$239.00 - \$250.00
400-500	\$250.00 - \$260.00
500-600	\$240.00 - \$252.50
600-700	\$217.00 - \$228.00
700-800	\$189.00 - \$200.00
800-900	\$180.00 - \$190.25
900-1,000	\$165.00 - \$176.50

HEIFERS

300-400	\$205.00 - \$214.00
400-500	\$210.00 - \$219.00
500-600	\$200.00 - \$210.50
600-700	\$177.00 - \$188.00
700-800	\$167.00 - \$176.50
800-900	\$161.00 - \$172.00

THURSDAY, FEBRUARY 9, 2023

3 Mix	Inman	297@	\$280.00	34 Mix	Salina	237@	\$270.00
12 Blk	Salina	237@	\$270.00	17 Blk	Inman	265@	\$260.00
5 Blk	Luray	436@	\$254.00	14 Blk	Salina	283@	\$255.00
6 Blk	Tampa	434@	\$253.00	19 Blk	Solomon	388@	\$214.00
6 Blk	Gypsum	542@	\$252.00	6 Blk	McPherson	455@	\$211.00
5 Blk	Delphos	354@	\$250.00	6 Mix	Delphos	350@	\$208.00
4 Blk	Minneapolis	448@	\$250.00	11 Blk	Delphos	514@	\$200.00
3 Mix	Delphos	412@	\$249.00	4 Blk	Galva	524@	\$198.00
6 Blk	Delphos	497@	\$248.00	4 Blk	Galva	524@	\$198.00
7 Blk	Viola	475@	\$247.00	15 Mix	Viola	545@	\$198.00
28 Blk	Tampa	491@	\$246.00	4 Blk	Marquette	506@	\$197.00
33 Blk	Tampa	553@	\$242.50	27 Blk	Whitewater	525@	\$197.00
10 Blk	McPherson	553@	\$242.00	4 Red	Luray	555@	\$196.00
5 Blk	Wilson	581@	\$240.50	3 Blk	Claffin	507@	\$193.00
9 Mix	Viola	564@	\$240.00	5 Blk	Wilson	580@	\$193.00
2 Blk	Galva	463@	\$239.00	6 Blk	Wilson	593@	\$190.00
4 Blk	Gypsum	588@	\$238.00	21 Red	Wilson	585@	\$189.50
3 Blk	Hillsboro	492@	\$232.00	6 Mix	Delphos	603@	\$186.00
7 Red	Tampa	496@	\$230.00	18 Blk	Alma	648@	\$184.00
5 Blk	Claffin	520@	\$229.00	34 Mix	Oak Hill	627@	\$184.00
13 Blk	Luray	605@	\$228.00	17 Blk	Halstead	656@	\$182.00
10 Blk	Solomon	609@	\$225.50	23 Blk	Luray	623@	\$182.00
15 Bwf	Ellsworth	609@	\$223.00	9 Mix	Abilene	639@	\$182.00
21 Red	Tampa	585@	\$221.00	70 Blk	Alma	663@	\$182.00
6 Blk	Delphos	606@	\$218.00	3 Blk	Bennington	630@	\$181.00
2 Mix	Ada	508@	\$217.50	15 Blk	Wilson	617@	\$180.00
9 Mix	Delphos	606@	\$213.00	23 Mix	Ellsworth	657@	\$180.00
5 Char	McPherson	623@	\$210.00	14 Mix	McPherson	683@	\$179.00
6 Blk	Wilson	628@	\$209.00	58 Blk	Whitewater	651@	\$177.00
5 Blk	Medicine Lodge	668@	\$207.00	29 Mix	Wilson	677@	\$176.75
13 Mix	Ellsworth	693@	\$200.00	68 Blk	Alma	755@	\$176.25
10 Blk	Wilson	700@	\$199.50	6 Blk	Moundridge	704@	\$176.00
9 Blk	Marquette	704@	\$197.50	14 Blk	Wellington	717@	\$176.00
28 Blk	Luray	699@	\$197.50	9 Blk	Marion	712@	\$175.50
6 Blk	Concordia	723@	\$197.00	36 Blk	Holyrood	764@	\$175.00
9 Mix	Wakefield	689@	\$196.00	18 Blk	Wilson	708@	\$174.50
13 Blk	Wilson	745@	\$196.00	38 Blk	Luray	697@	\$174.50
15 Blk	Solomon	691@	\$195.00	36 Mix	Alma	727@	\$173.75
15 Mix	McPherson	758@	\$194.25	6 Blk	Marquette	777@	\$172.00
46 Blk	Luray	783@	\$192.75	24 Blk	Wellington	806@	\$172.00
25 Blk	Wellington	783@	\$192.75	10 Blk	Medicine Lodge	692@	\$170.00
10 Mix	Ellsworth	693@	\$192.50	5 Blk	Concordia	837@	\$169.00
38 Mix	Junction City	768@	\$191.00				
8 Blk	Wilson	774@	\$190.50				
12 Blk	Marquette	801@	\$190.25				
6 Blk	Delphos	705@	\$190.00				
18 Blk	Wakefield	767@	\$189.50				
21 Mix	Abilene	748@	\$188.50				
34 Red	Ellsworth	782@	\$186.50				
57 Blk	Wellington	878@	\$186.10				
22 Blk	Lyons	797@	\$186.00				
9 Blk	Concordia	806@	\$183.00				
120 Blk	Abilene	878@	\$181.75				
60 Mix	Tampa	845@	\$181.00				
60 Mix	Hope	868@	\$181.00				
60 Blk	Lyons	871@	\$180.00				
12 Mix	Wakefield	903@	\$176.50				

SPECIAL CALF SALE: TUESDAY, FEB. 7

STEERS

69 Blk	Tampa	499@	\$260.00
48 Blk	Claffin	545@	\$252.50
18 Blk	Tampa	541@	\$249.00
59 Blk	Lorraine	525@	\$248.00
7 Blk	Ellsworth	561@	\$246.00
13 Blk	Salina	547@	\$245.50
10 Blk	Clay Center	565@	\$244.50
6 Blk	Wichita	513@	\$243.00
17 Blk	Sylvan Grove	487@	\$243.00
19 Blk	Lorraine	413@	\$242.00
82 Blk	Tampa	577@	\$240.00
79 Blk	Lorraine	591@	\$240.00
22 Mix	Oak Hill	505@	\$238.00
90 Blk	Claffin	608@	\$226.25
20 Mix	Goddard	602@	\$217.00
17 Blk	Sylvan Grove	598@	\$216.00
18 Blk	Tampa	626@	\$207.50
35 Blk	Lorraine	659@	\$206.00
10 Mix	Miltonvale	671@	\$204.00
31 Blk	Ellsworth	685@	\$202.50
10 Blk	Lorraine	705@	\$200.00
10 Blk	Goddard	663@	\$198.50
141 Blk	Claffin	728@	\$195.75
40 Blk	Canton	759@	\$188.50
83 Blk	Claffin	800@	\$187.25
29 Mix	Miltonvale	779@	\$187.00
29 Blk	Beloit	803@	\$186.75
21 Mix	Ellsworth	786@	\$185.25
9 Blk	Ellsworth	871@	\$182.50

HEIFERS

26 Blk	Lorraine	449@	\$219.00
22 Blk	Dorrance	466@	\$216.00
50 Blk	Lorraine	479@	\$215.00

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY
Hogs sell at 11:00 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.

Don't forget to get your Spring Spectacular horses consigned! Deadline for consignment is March 1, 2023

51 Blk	Tampa	471@	\$214.00	11 Mix	Lorraine	580@	\$192.50
7 Blk	Clay Center	456@	\$212.00	14 Blk	Lorraine	625@	\$188.00
20 Mix	Tampa	514@	\$210.50	47 Blk	Ellsworth	663@	\$186.00
10 Blk	Ellsworth	537@	\$210.00	19 Mix	Tampa	596@	\$186.00
21 Blk	Lorraine	500@	\$209.00	14 Blk	Sylvan Grove	614@	\$185.00
6 Blk	Ellsworth	522@	\$209.00	10 Blk	Wilson	630@	\$184.00
11 Blk	Canton	557@	\$208.00	22 Mix	Beloit	622@	\$182.00
5 Blk	Wichita	504@	\$207.00	28 Blk	Ellsworth	643@	\$180.00
17 Blk	Sylvan Grove	436@	\$206.00	12 Mix	Ellsworth	698@	\$177.00
25 Mix	Oak Hill	537@	\$204.00	10 Blk	McPherson	733@	\$176.50
60 Blk	Lorraine	554@	\$204.00	10 Red	Osborne	617@	\$176.50
12 Blk	Sylvan Grove	502@	\$202.00	24 Blk	Ellsworth	696@	\$176.50
11 Blk	Salina	569@	\$194.00	20 Mix	Bennington	710@	\$175.50

Early Consignments For THURSDAY, FEBRUARY 16, 10 AM

70 black steers, 700-800, home raised, long time weaned, vaccinated; 120 black steers, 850, long time weaned, 2 round vaccinations, no sort; 148 black steers, home raised, off short rye; 64 mostly black steers, 850, no sort; 26 mixed heifers, 400-700, 1 round vaccinations, pour on, long time weaned, home raised; 35 black/SimAngus heifers, 700-725, home raised, long time weaned, vaccinated, open; 70 heifers, 800, long time weaned, vaccinated, open; *plus more by sale time.*

Early Consignments For SPECIAL COW SALE, TUESDAY, FEBRUARY 21, 2023 ** 11 AM

BULLS: 8 Angus bulls, 2 years old purebred, no papers available, semen & trich tested; 2 black, coming 2 years old, semen & trich tested; 2 black coming 1 year old, Sim/Angus, semen & trich tested; 7 purebred Char bulls, 2 years old, semen & trich tested; *plus more by sale time.*

REPLACEMENT HEIFERS: 5 registered Red Angus, open; 100 SimAngus heifers, 850#'s, pelvic exam, calfhood vaccinated; 40 black Angus heifers, 800#'s, pelvic exam, calfhood vaccinated, 1 iron, "FANCY"; 65 black heifers, OCHV'd, home raised, 1 iron; 65 black heifers, top end off all home raised heifers, OCHV'd, pelvic exam, checked open; *plus more by sale time.*

BRED HEIFERS: 4 registered Red Angus, bred Red Angus, calving April; 20 black/SimAngus heifers, home raised, 2 round Scourguard, bred Angus, bulls pulled June 30th; 16 black heifers, 1 iron, bred to proven low birth weight Angus bulls, Scourguard; 15 black heifers, home raised, bred to low birth weight Benoit & Gardiner Angus bulls, OCHV'd, pelvic measured, calving March 1st, Scourguard in December; 17 red & black heifers, home raised, very gentle, bred to low birth weight Cow Camp Angus bull; *plus more by sale time.*

COWS: 25 black cows, coming with 2nd calf, March calvers, home raised, very gentle; 35 black & Char spring cows, 3-6 years old, bred Char; 200+40 mostly black young cows, 3-5 years old, black calves; 30 black & red spring bred cows, 5-7 years old, AI bred; 49 black, coming with 2nd calf, bred to line 1 Hereford bulls, mid February/March calvers; 78 solid mouth to older black cows, bred Sim/Angus, February 15-March calvers; 10 black young cows, spring bred; 15 black & red, 4-5 years old, spring bred; 60 BWF, 4-6 years old, bred to Larson Angus OR Smoky Y Red Angus, start calving April 1st; 150 black Angus, 3-6 years old, bred black Angus bulls, nice set of cows; 15 black cows, 3 years old, coming with 2nd calf, bred Angus, fall calvers; 14 black cows, 5-7 years old, Bred Pharo bulls, calving in April; 4+4 Red Angus cows, 7-8 years old, calves are Red Angus; 5 heavy bred Red Angus cows, 7-8 years old, bred to low birth weight Red Angus bulls; 10 running age cows, black & red, bred black Angus bulls, calving March 1st; *plus more by sale time.*

UPCOMING SPECIAL TUESDAY SALES:

COW SALES: February 21 ** March 21 ** April 18 ** May 2

IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- Heavy Duty Feed Bunks

For Information or estimates, contact:

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

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

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