



# Fields and Ivy brews craft beers with local grains

By Donna Sullivan,  
Editor

Farm-to-Fork has been a popular catchphrase for several years, as agriculture producers have worked to connect consumers with where and how their food is produced, as well as taken their products from the growing fields all the way to dining rooms. But, along with Farm-to-Fork, Cody Johnston is upping the game by adding Grain-to-Glass with his newly opened Fields and Ivy Brewery on East 23rd Street in Lawrence.

In a building that has in the past housed a lumberyard and hardware store, a wrought-iron manufacturer, a granite counter-top store and a rental car agency, Johnston and his wife Veronica have developed a 5,000-square-foot, steam-powered production brewery, 190-seat pizza restaurant and music venue. The brewery can produce 15,600 barrels of beer each year. But Johnston's involvement begins long before the brewing process. He's actually involved in growing the ingredients.

Johnston grew up in Kansas City and recalls ordering vegetable seeds from an ad in the back of Boy's Life magazine and planting them behind the family's garage. "I had a bumper crop of cucumbers and sold them door to door in our neighborhood and thus was hooked for life on agriculture," he said. His father worked with Wenger Manufacturing extrusion systems. "So growing up I had knowledge of the feed and food industries on a larger scale than most kids," he continued.

Purchasing land for agriculture production had long been a dream of the father and son. "But we didn't get that done until I was about 45 years old and he was about 65," Johnston said.

The younger Johnston was working in the finance industry in Atlanta and learning how to home-brew beer in their basement, all the while dreaming of one day opening a brew-



Fields and Ivy Brewery in Lawrence offers a Grain-to-Glass experience for beer lovers. Above, Cody Johnston shows of his full boat of craft beers.

*Courtesy photos*

ery. When the Great Recession knocked the slats from under the finance world, Johnston moved his wife and three daughters back to the family farm in Wellsville. He brought in business partner Gary Van Horn, a fourth-generation farmer whose family has worked the same Franklin County land for more than seven decades. Together they founded Great Plains Custom Grain, LLC., using sustainable agriculture practices, including no-till farming and cover crops, to custom-produce grains for brewers and distillers. The 640-acre Hickory Creek Farm is about 400 acres of broke ground and around 240 acres set aside for timber and wildlife conservation. Along with commodity crops, they grow soft red winter wheat, heirloom corn and are also trying to grow brewing-quality barley. Johnston believes they may be the first brewery since the late 1800s to produce a commercial beer with Kansas-grown barley malt. "We are really close to what we think is a production plan and a winter barley variety that will work in Kansas," he said. They began serving their own beer at Fields and Ivy in July.

"We use Kansas wheat

malt in our wheat beer, hazy IPAs and fruit beers," Johnston describes. "We use Kansas corn in our lager and Saison." He said it only adds up to about 5% of their total grain usage, but that those specialty grains add a material amount of flavor and character in those beers.

Describing the process of developing a craft beer, Johnston said they work hard to avoid the error side of trial and error. "The first step in developing a craft beer is deciding what you want to make," he explained. "The selection is as important as the execution when trying to brew a beer for commercial success. At Fields and Ivy Brewery, we like traditional styles brewed with local and modern ingredients and modern techniques." He said that once the decision of what style of beer to make and the factors that will make it unique is made, they turn to beer science, computer software and the collective experience of the brewers to calculate a handful of indicators that can be used to approximate the new beer's flavor and appearance. "We bench-test new flavors and ingredients by adding small, but exactly measured, amounts to a beer we have on hand

that approximates the new beer we are designing," he said. Johnston counts putting together their talented and professional brewing team, as well as the brewery itself, as their biggest brewing success.

"I think our wheat beer, Summer Pasture, tells our story in the best way," said Johnston. "It's a beer made with Kansas-grown soft red winter wheat, local honey and orange peel. For a wheat beer it's not cloudy

at all and it's an all-around excellent beer to drink whenever, but especially when it's hot outside. It pairs well with most every food style."

Commercially, he says that Breezedale, a hazy IPA that is the namesake of the historical neighborhood next to the brewery, has been the most successful. "The name is well-suited to the beer because of its tropical aroma and flavors and the low level of bitterness

for a beer made with a large amount of hops," he said.

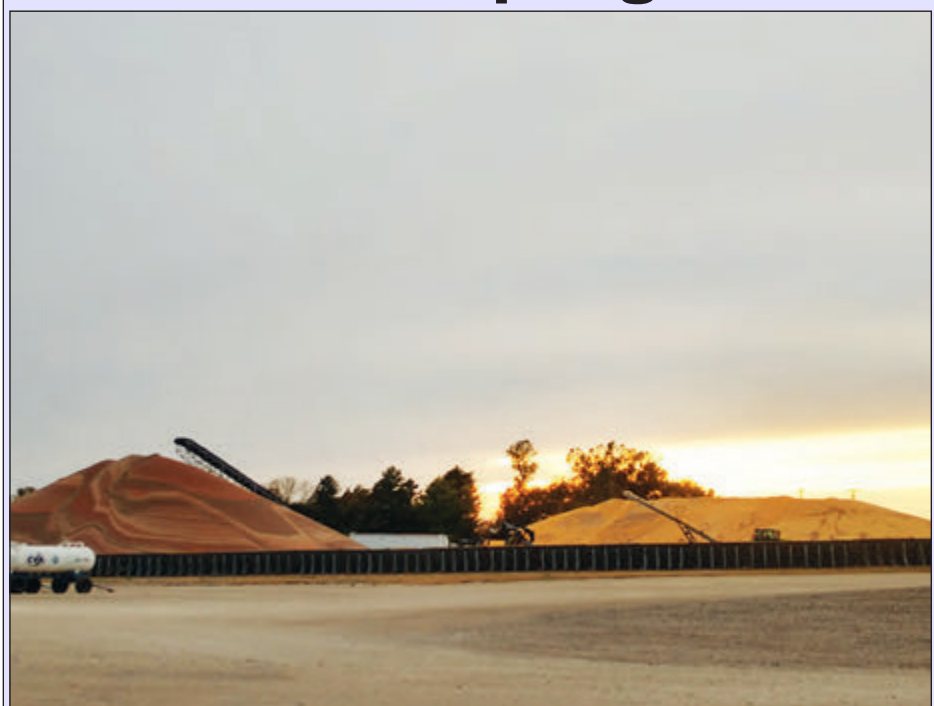
Due to the large volume of salads they sell, it's not possible to source all of their greens and vegetables locally, but they do as much as they can. "We are proud to work with a couple of local growers in the Lawrence area. Little Greens on the Prairie grows awesome micro greens that we love," said Johnston. "Pantaleon Florez from Maseualkualli Farms provides us locally grown specialty greens and vegetables." He said that Pantaleon also works in the kitchen at Fields and Ivy.

While Lawrence itself might not be considered an agricultural hub, it isn't a distant journey to the land that provides such bounty. It's important to everyone involved with Fields and Ivy Brewery to keep their tie to agriculture in the forefront – right down to the Barn Quilt-design tiles gracing the counter. Even the name Fields and Ivy reinforces the connection. "Because we are taking grain from our fields and using science and art to brew with those grains," Johnston said. "To us, science and art are embodied by the ivy-covered walls of our institutions of higher learning."



Fields and Ivy also features a large outdoor space for dining, games and relaxation.

## Fall harvest progresses



As fall harvest marches across the state, piles of grain on the ground are a common sight, like these at Central Valley Ag in Clay Center. For the week ending November 3, corn harvested was 83%, behind the average of 89. Soybeans were at 70%, well ahead of last year's 60 but behind the average of 77. Sorghum harvested is at 69%, ahead of last year at 47 and the average of 63. Eighteen percent of the cotton crop has been harvested, near the 15 average. Sunflowers harvested was 63 percent, ahead of 53 average.

*Photo by Donna Sullivan*

## Schlickau a finalist in NCBA National Anthem Contest; voting continues until November 15

Four finalists have been announced for the NCBA

seventh annual National Anthem Singing Contest. The winner will receive a trip to the 2020 Cattle Industry Convention and NCBA Trade Show Feb. 5-7 to perform the *Star Spangled Banner* at the event's Opening General Session Feb. 5, as well as the Friday Night NCBA PBR Invitational Event Feb. 7. The contest is sponsored by Norbrook.

The four finalists are:

Courtney Stefan, Hallettsville, Texas;

Anna Kelsey, Tecumseh, Okla.;

Sara Schlickau, Manhattan; and

Lauren McCarthy, Reno, Nev.

Everyone will be able to vote for their favorite sing-

er until Nov. 15. One vote per day will be offered to each IP address. The winner will be announced Nov. 18, 2019.

The contest winner will receive a hotel room for four nights, free convention registration for two, a meet-and-greet hosted by Norbrook, plus a pair of boots, pair of jeans and a shirt from Roper or Stetson.

The videos of the top four finalists are available for voting on the convention website at <https://convention.ncba.org>. Voting is being counted by an independent firm and will be open until Nov. 15, 2019 (one vote per IP address per day).



# Insight

## Rising to the Top

By Jackie Mundt, Pratt County farmer and rancher

Nearly 70,000 young people recently attended the National FFA convention in Indianapolis. I could write a book about all of the awesome things that happen at this event and how it changes lives.

One of the main purposes for the convention is to host the national competitive events for the organization. Students compete to be national champions in public speaking, agronomy, meat evaluation, entrepreneurship, the agriscience fair and several hundred other contest areas.

In recent years, these competitions have become a source of pride and excitement for me as I have watched two of my nieces vie for national championships. Last week my niece, Madi, and her teammates, Zach and Brooklyn, earned first place in the marketing plan competition, which challenges each team to write a

marketing plan to increase sales for a real ag-related business. The students present and defend their plan to panels of industry and academic experts from across the country.

This competition, like all of the national competitive events, requires months (or years) of preparation, skill development, sacrifices of time, energy and so much more to be ready to compete. These students have more preparation and experience than many industry professionals do by the time they are done.

One of the judges made an interesting observation. She said in her experience people at this level are so driven that completion colors their interactions and makes them aggressive toward each other. However, she said in FFA members have a culture of cooperation even among competitors. They acted courteous and helpful even to their competitors. She wanted to know how that was possible.

The judge was right, as odd as it seems; it is common to see FFA members in the same competition share words of encouragement or lend a needed piece of equipment to another team who forgot something or had a breakdown.

The reason for this behavior is simple. FFA has a culture that emphasizes the importance of values like honesty, hard work and courtesy to others.

Helping another person in need is a simple and expected courtesy. Sure, it may give you an advantage if your competition

is injured, but that is not an honest or fulfilling way to win. We teach our students to win because they earn it and to respect the effort and skills of their competitors. Another person competing at their best makes you work even harder to be your best.

In a world so full of experiences and activities, it can be easy to forget about the importance of values. Out of all the investments we can make, instilling these values is the activity that rises to the top. Young people, who understand what values are expected, develop solid character and often grow to become trusted community contributors and leaders.

How are young people in your community being raised? Do you have programs like FFA, 4-H, Boy and Girl Scouts that emphasize values? Are expectations being modeled in their schools and sports programs? Is someone teaching why values are important?

These investments in the next generation are crucial. If we teach young people important values and have high expectations of their character, I am confident that no matter their goal, they will rise to the top.

*"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.*

## Hemp: big risks, big rewards for agriculture

Since the 2018 Farm Bill removed hemp from the Controlled Substances Act, the agriculture industry has been inundated with interest in and information about industrial hemp. Some of the information has indicated a large financial upside for the broadening industry. Producers responded, as hemp acreage in the U.S. tripled from 2017 to 2018. However, CoBank's Knowledge Exchange division warns that false, outdated, biased or even contradictory information can make it difficult to navigate in this industry.

In its latest report, CoBank's Knowledge Exchange division provides a foundation for understanding some of the key nuances of this growing market and highlights key risks and opportunities. Nine risks or uncertainties that face the hemp industry are identified and assessed on a low to high risk scale for each of hemp's three crops and markets: fiber, grain/seed and CBD production.

"It is important when talking about the risks and opportunities of hemp to recognize that we are not talking about just one type of crop, and that opportunities and risks should be evaluated case by case," said Crystal Carpenter, specialty crops analyst with CoBank's Knowledge Exchange division.

"Overall, CBD production has the highest level of risk across the board due to a range of factors," said Carpenter. "From seed quality, labor costs and availability, THC limit risks and long-term acceptance by the Food and Drug Administration, the industry could face significant headwinds."

While some risks are inherent to a new industry, risks for the hemp industry are compounded by legal and regulatory hurdles, according to the report. The USDA is expected to release hemp regulations and guidance soon. The timing and outcome of future FDA regulation will be critical to the long-term demand for CBD.

Carpenter's full risk table, video synopsis and report are available on CoBank.com.



It's done. Yes, tonight I made the last pass in the last field of soybeans for this year's harvest. It felt good, really good and I was about six weeks ahead of last year. That means I won't have to leave Thanksgiving dinner early to go to the field and harvest. Maybe I can enjoy Thanksgiving and Christmas, but most importantly we put a bow on this long hard year.

I really think this long year started with harvest last year. The weather would not let up and our machinery had trouble holding up to the tough conditions. I have felt like I was behind since last fall and never had a chance to get caught up. Being behind on harvest meant we were behind on putting cows out on stalks which meant they stood in the lot eating hay we didn't have for an extra month.

Following harvest came one of the worst winters I can ever remember, and it didn't let up. I know I had it much better than many of you and believe me, you have my sympathy. I lost as many calves and lambs last winter as I had the last four combined and I know I was not alone. It seemed like we could never get away from cold, wet and mud. Not only that but we burned through more hay we didn't have, and it took its toll on man, beast and machine. I don't think any of us came away unscathed, my back and hips still hurt at the thought of wearing muck boots and coveralls. We were slammed by a winter that was impossible to get prepared for.

Then came spring and the rain. We had a small window to get the cows to grass or plant corn. Given my lack of hay and waist-deep lots I chose to get cows to grass. Then I watched it rain and rain some more and it wasn't until May that I got my corn planted and I felt fortunate because I know so many who never got their corn in the ground. The late corn planting pushed soybean planting back and that got into hay season.

It was the hay season from, well never mind, it was bad, long and drawn-out. I guess the silver lining is that we have plenty of hay this year, however poor the quality. If you had let me choose, I would have chosen quantity over quality

this year. The hay season that started in June carried on until mid-September. I am pretty sure each morning from mid-July every time the alarm went off in the morning I stepped on the clutch and waited for the next alarm to kick the bale out. With all the delay in the normal ag calendar I dreaded harvest.

Last year's harvest was beset by bad weather and breakdowns so I assumed this year would be the same way. We did get started later than I would have liked but when we got going, we really got going. I think we had to stop one or two days two different times for rain but nothing like the past year. We had several good harvest days in a row and got into the groove. I finished the field on Halloween that I had been cutting on last year at Thanksgiving. One whole holiday ahead of last year, that is a good thing.

The most miraculous thing, and I can say this now that I am done, is that my old worn-out combine came through the harvest with no breakdowns. I don't know how much better it can get, the worst breakdown I had was a broke section on the sickle. I was so snake-bitten from last year that every time I heard a squeak or a groan, I developed a nervous tic. This is the very same combine that the shed collapsed on and it sat outside in the rainy weather after that. I guess all it needed was some tough love.

What does that mean going into this winter? Absolutely nothing, but it does make me feel better and I can finally take a deep breath and know that everything might be okay. We still need to do a lot with the cows and build a lot of electric fence, but I have more confidence that we get that done despite the weather than I did harvest. Best of all, if we do get mired down, I have plenty of hay to get through.

If it sounds like I am a little giddy, it is because I am. I am sure something will come up and I will be hopelessly behind again, probably next week. But for now, for one night anyway, I intend to bask in the glory. Bean harvest is done – those words never sounded so good. Who knows? We might try this again next year.

## Farm Succession: Estate Planning program planned for November 21

By James Coover, Crop Production Agent, Wildcat Extension District

If you own a house, land, equipment, livestock, stocks, or really any asset, you own an estate. Someday, hopefully far in the future, you will die, and then someone else will own your estate. You get to choose who and how that is... but only if you plan properly. Farm succession and estate planning can be an uncomfortable topic for many families as it involves not only the parents no longer being around but also inheritance for the children. Many estate owners think they are too young to make a plan or they don't have time, however not making a plan creates a lot of problems later on. If a plan isn't made, then the state decides what happens, which is very unlikely to go how you would have preferred it.

Estate planning is just one piece of farm succession. Although estate planning is the more defined piece, the majority of farm succession is the gradual process and philosophy of transferring the farm from one generation to the next. Estate planning is ideally, oddly enough, the first and last step of farm succession. Estate plans can be used in the

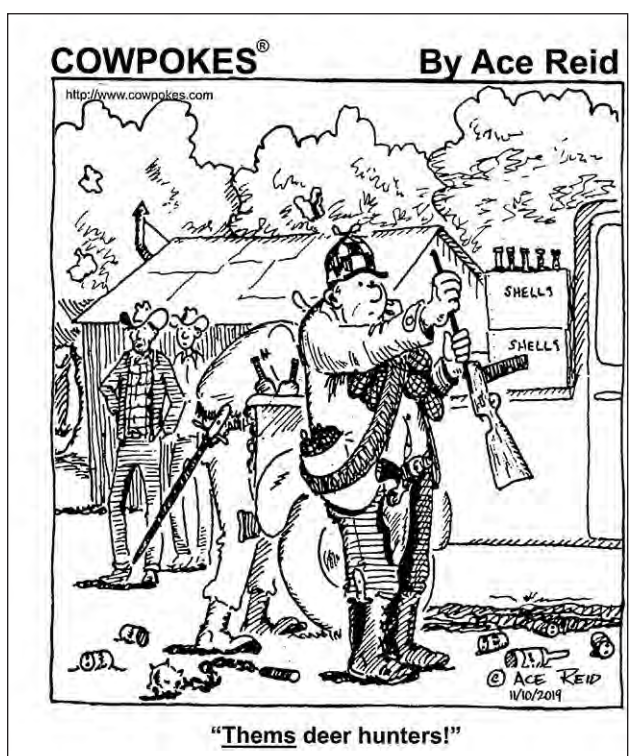
beginning of farm succession to establish goals, communicate plans, and fully realize the present estate. During the process of farm succession, estate plans need to be updated as families change due to marriage, divorce, kids, and changing assets. The end, of at least that generation of farm succession, occurs when the estate plans go into effect, usually through a death of the primary estate owner(s). Farm succession itself never actually ends as the new generation is brought onto the farm operation. Please note that farm succession is not limited to just within the family itself. Plenty of farms are taken over by someone outside the family who had a vested interest in managing it.

According to an older publication from K-State Extension specialist Joyce Jones, estate planning has six steps: 1. Initiate the discussion; 2. Take stock of the present; 3. Develop objectives; 4. Choose professional advisers; 5. Consider alternatives and implement the plan; 6. Review and modify. Initiating the discussion means talking with the family or invested people, and often, can be the hardest step. Family specialist Dr. Shoup Olson

states, "The talking (with family) has to happen first if you are to know what to share with the professionals along the way." She also mentions that there is a fear succession planning will fracture family relationships and that is too emotional a process. However, there are ways and times of communicating to overcome the obstacles. Taking stock of the present is the functional step of determining the current financial situation. K-State Research and Extension has a couple of check lists to help cover all the bases of the full estate. The developing objectives step can be at least started in the initial discussions. It comes down to determining what everyone's individual goals are. However, these will most certainly change with time. Step 4 is where outside help comes in and can involve attorneys, accountants, trust advisers, and insurance agents. Estate planning is complex and legalist but insist on knowing and understanding what the plan is the professionals are creating. To me, the steps 5 and 6 are similar. Once a plan is created, it needs to be fully communicated, but also changed over time as the operation and family or invested people change as well.

This Thanksgiving would be a great time to at least approach the family with plans to begin the estate planning process. To get you ready, K-State Research and Extension Wildcat District will have a Farm Succession and Tax Control program on November 21st from 6:00 to 8:00 p.m. at the Southeast Extension Center in Parsons. We will get comfortable with the terms and concepts of wills, trusts, taxes, and other estate planning topics. Cost of the program is just \$5 per person as most of dinner and program costs are being covered by our sponsor Community National Bank and Trust. Please call the Wildcat District Girard office to RSVP at 620-724-8233.

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



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# Researchers to tackle irrigation decision-making with help of USDA grant

A new grant that brings together researchers from the University of Nebraska-Lincoln, the University of Illinois and Princeton University aims to bridge the gap between data collection, modeling and decision-making so crop producers can more easily decide whether to irrigate. The project, funded by a \$900,000 grant from the U.S. Department of Agriculture's National Institute of Food and Agriculture program could potentially save both financial and water resources.

The project includes three parts, and Nebraska will serve as ground zero for the third part. Trenton Franz, Derek Heeren and Daran Rudnick,

all of the University of Nebraska-Lincoln, will work with partners and producers in the state to validate remotely collected soil moisture and weather data and to inform the design of an end product useful to producers' decision-making.

Kaiyu Guan, remote-sensing specialist with the University of Illinois, is leading the project, with Franz and Ming Pan, associate research hydrologist at Princeton University, acting as institutional leads.

"We have remote-sensing, modeling and in-field data, but we want to know how best to combine and use that data to make improved decisions

about irrigation," said Franz, an associate professor in the School of Natural Resources. "Right now, the main problem is we don't have great real-time irrigation data to help validate the remote sensing and modeling data to make it useful for decision-making."

Weather, soil and irrigation data collected via unmanned aerial vehicles, airplanes or satellites have certain problems: inopportune cloud cover, time between Earth passes, the scale — hundreds or meters across rather than at the tens of meters needed — all of which hinder the ability to make an informed decision.

Farmers have their own set of barriers. As farms progres-

sively get bigger — in some cases 50 to 60 miles across — it becomes impossible to check the entire farm for rainfall simultaneously. Factor in that it takes three to four days for a center pivot irrigation system to complete a cycle around the field, and the end result is farmers making decisions based on a five-day period with inaccurate or missing information.

The researchers will spend the next three years working to refine satellite-collected data so it can be incorporated into mathematical modeling to accurately represent daily weather, crop and irrigation information; and then validate those components through

field-level monitoring.

The UNL team, members of the School of Natural Resources and the Biological Systems Engineering Department, will work with Nebraska stakeholders to install on-the-ground crop sensors measuring 40 variables, including rainfall, solar radiation and plant health. Those variables combined will provide a water and energy budget — the information the farmer needs to make a decision — and the researchers hope to develop that information into an app or other easily accessible product.

"Once we disseminate that out through our networks, we hope to make it better with

feedback from users and with more localized data," Franz said, "because the project leaders can look at the app, but if it's just us, it's not useful."

The Nature Conservancy, Nebraska Water Balance Alliance, Nebraska Natural Resource Districts and Nebraska Extension will partner on the project, with additional partners working with the University of Illinois and Princeton University on data analysis and modeling methods.

The National Science Foundation, together with USDA-NIFA, is funding the research through the cyber-physical systems program.

# New campaign sheds light on beef animal care standards

Consumers will soon learn about the steps beef farmers and ranchers take to care for their animals and to produce high quality beef in a new promotion and advertising campaign about the Beef Quality Assurance (BQA) program. BQA trains farmers and ranchers on best practices and cattle management techniques to ensure their animals and the environment are cared for within a standard set of guidelines. The program began 30 years ago, and today more than 85 percent of beef produced in the U.S. comes from a farmer or rancher who has been BQA certified.

The formally producer-facing BQA program, will now be introduced to consumers via a campaign designed to meet their desire to learn more about how beef is produced. The integrated marketing and communication campaign includes a new video from Beef. It's What's for Dinner, bringing the BQA program to life by highlighting how cattle farmers and ranchers across the country raise cattle under BQA guidelines. The video will be used in marketing efforts and is available to consumers on the new BQA section of BeefItsWhatsForDinner.com. Consumers will

also be able to learn more about BQA through interactive "BQ&A" Instagram stories addressing common questions about how cattle are raised. The video, website and social activations provide consumers with an overview of the BQA program and the ongoing commitment of cattle farmers and ranchers to caring for their animals and providing the safest and highest quality beef possible.

"According to market research, the majority of consumers say they consider how and where their food is raised when making a meal decision," said Josh White, executive director of Producer Education at the National Cattlemen's Beef Association, a contractor to the Beef Checkoff. "The BQA program offers consumers assurance that there are consistent animal care standards in place across the beef industry. BQA exemplifies what beef farmers and ranchers have always cared about — a commitment to caring for their animals and providing families with the safest and highest-quality beef possible, and we look forward to introducing this important program to consumers."

The foundation of BQA is a set of educational resources

promoting animal care practices that are based in science and align with governmental regulations. These resources are reviewed by an expert advisory group consisting of farmers and ranchers, veterinarians and animal scientists who meet quarterly to evaluate the program, discuss trending topics, review the latest research and make recommended changes or updates, as needed.

The BQA program specifically addresses and provides training in the following areas, among others:

Cattle handling  
Cattle health  
Cattle nutrition  
Cattle transportation

"With the vast majority of the beef supply in the U.S. today coming from a BQA certified farmer or rancher, and many packing plants and restaurant chains setting BQA requirements, consumers should have the utmost confidence in the beef they consume and purchase both at restaurants and supermarkets," White added

Cattle farmers and ranchers can become BQA certified by either attending a classroom course taught by a network of hundreds of state BQA coordinators and trainers or by completing a series of robust

online courses. Certification is good for three years, after which time farmers and ranchers must become re-certified to ensure they have the most up-to-date information and are trained on the latest BQA guidelines.

Not only does the BQA program provide guidelines for proper animal care and welfare, these management guidelines also result in the production of higher quality beef. In fact, the beef industry is producing more high-quality beef today than ever before,

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# Our Daily Bread

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

*Rose Edwards, Stillwater, Oklahoma, Wins Weekly Grass & Grain Recipe Contest*  
**Winner Rose Edwards, Stillwater, Oklahoma:**  
**LEMON CAKE**

1 lemon cake mix  
4 eggs  
1 can lemon pie filling  
Cream cheese frosting or powdered sugar icing with lemon extract  
Mix cake mix and eggs. Fold in pie filling. Put in sheet cake jelly roll pan. Bake at 350 degrees for 18-20 minutes. Let cool. Frost with cream cheese frosting or powdered sugar icing with lemon extract.

\*\*\*\*\*  
**Bernadetta McCollum,** utes.  
**Clay Center:**  
**CHIESE PUFFS**  
1/2 cup butter  
1 cup sifted flour  
2 cups shredded cheese  
1/2 teaspoon paprika  
1/4 teaspoon red pepper  
Cream the butter then add flour, cheese, paprika and red pepper. Shape into 1-inch balls and chill or freeze. Bake on ungreased cookie sheet at 350 degrees for 15 min-

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### BONUS DRAWING

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- Made from Melamine. • Hand wash recommended.
- Measures 12 inches diameter x 7/8-inch high

*"This plate shall have no owner for its journey never ends. It travels in a circle of our family and friends. It carries love from home to home for everyone to share. The food that's placed upon it was made with love and care. So please enjoy what's on the plate, then fill it up again. Then pass along the love it holds to your family and friends."*

The winner each week is selected from the recipes printed. Send us your favorite recipe. It may be a main dish, leftover, salad, side dish, dessert, or what-have-you. 1. Check your recipe carefully to make certain all ingredients are accurate and instructions are clear. 2. Be sure your name, address and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery. 3. Send it to: Woman's Page Editor, Grass & Grain, Box 1009, Manhattan, KS 66505.  
OR e-mail: [auctions@agpress.com](mailto:auctions@agpress.com)

1/4 teaspoon salt  
1/8 teaspoon pepper  
1 small onion, chopped  
2 tablespoons lemon juice

**Topping:**  
About 1/4 cup brown sugar  
1 tablespoon mustard

Heat oven to 350 degrees. Generously grease an 8-inch square pan. In a bowl combine salmon, reserved liquid and all remaining loaf ingredients; mix well. Press into greased square pan. Mix topping ingredients and spread over top. Bake for 50-60 minutes or until golden brown. Let stand 5 minutes.

\*\*\*\*\*

**Kimberly Edwards,** Stillwater, Oklahoma:  
**HARVARD BEETS**  
15-ounce can sliced or baby whole beets  
1/4 cup sugar  
1 tablespoon cornstarch  
1/4 teaspoon salt  
Dash pepper  
3 tablespoons vinegar

Drain beets, reserving liquid. Measure liquid and add water to make 3/4 cup. Set beets aside. In a saucepan combine sugar, cornstarch, salt and pepper; mix well. Gradually stir beet liquid and vinegar into sugar mixture and blend until smooth. Cook until mixture boils and thickens, stirring

constantly. Add beets and cook until thoroughly heated.

\*\*\*\*\*

**Darlene Bernhardt,** Tecumseh:  
**TWICE BAKED SWEET POTATOES**  
2 large sweet potatoes, halved lengthwise  
1 tablespoons olive oil  
3/4 teaspoon salt, divided  
1/2 teaspoon pepper, divided  
1/4 cup sour cream  
1/4 cup shredded sharp Cheddar cheese  
4 slices bacon, cooked & crumbled

Set oven 400 degrees. Coat potatoes with oil and sprinkle both sides with 1/2 teaspoon salt and 1/4 teaspoon pepper. Place potatoes cut side down on a large rimmed baking sheet. Bake until fork-tender, about 30 minutes. Scoop out flesh place in a bowl. Reserve skins on baking sheet. Reduce oven to 375 degrees. Add sour cream and remaining 1/4 teaspoon salt and pepper to potato flesh, and mash using a potato masher. Divide potato mixture among reserved skins, and top with cheese. Bake for 5 minutes. Top with bacon. Garnish with sour cream, if desired.

\*\*\*\*\*

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



## Stay Healthy, Drink Water

By Tyler Johnson,  
Expanded Food & Nutrition Education Program Agent,  
Wildcat Extension District

Most people know the importance of drinking a lot of water during the spring and summer. It is important to drink plenty of water during the fall and winter as well. Hot and dry air can dehydrate you in the summer time, but did you know dry cooler weather can dehydrate you too? Before talking about how much water your body needs, we need to address some myths around hydration.

**Myth:** Dehydration is not dangerous, just uncomfortable

**Fact:** Extreme dehydration can be deadly. Most dehydration is mild. Mild dehydration is characterized by headaches, feeling sluggish, decreased sweat and urine. If not treated, mild dehydration can become severe quickly. Young children and elderly are the most vulnerable.

**Myth:** Everyone needs to drink 8 glasses of water a day

**Fact:** This use to be a general rule, but now it is outdated. Current research points to drinking about half of your body weight in ounces a day. For example, a 140-pound person should try to drink 70 ounces of water a day.

**Myth:** You are dehydrated if you are thirsty

**Fact:** Being thirsty is your body's way of telling you to drink water. You can feel thirsty if you are dehydrated. Often times, we are thirsty when we are hydrated and starting to need a little water.

**Myth:** There is no such thing as too much water

**Fact:** Overhydration is rare but dangerous. You have to drink a lot of water to overhydrate. If you are worried about overhydrating, do not drink to the point where you feel full from water alone.

**Myth:** Coffee dehydrates you

**Fact:** It depends. Caffeine is dehydrating, but the water used to brew

coffee makes up for the effects of the caffeine. There is a point where the caffeine is greater than the water, around 500 or more milligrams in a day.

**Why Stay Hydrated When It Is Cooler?**

Staying hydrated when it is cooler outside has a number of health benefits. First, staying hydrated helps your body maintain a healthy temperature. In the colder weather, staying hydrated will make you feel warmer. Second, staying hydrated will help your skin from drying out and becoming chapped. Finally, drinking enough water to stay hydrated helps you maintain your current weight. When your body is properly hydrated, it is more likely to break down unwanted fat while keeping your digestive system functioning properly.

**How to Stay Hydrated in the Cooler Months**

There are many ways to stay hydrated in the cooler months. If you have a system to keep hydrated in the summer, try using it in the fall and winter. For people who do not have a system, make drinking water convenient. I carry a reusable water bottle around with me or have one somewhere close by. If keeping track of how much you drink a day is an issue, try keeping a journal. By keeping a water journal, you will be more mindful of needing to drink and how much you have had in the day. Finally, if you are one of the many people who do not like drinking water for the sake of drinking water, try changing it up. Add cut up fruits or vegetables to your water, get some 100% fruit juice extract and add a little to each glass, or eat soup with a high broth/water content. The trick is to find a way that works for you without adding sugar.

For more information or to schedule an appointment, please contact Tyler Johnson, [tajohnson120@ksu.edu](mailto:tajohnson120@ksu.edu), or by calling 620-232-1930.

## FARM AUCTION

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# Jessica Busteed, Cornerstone Bakery



**By Ron Wilson,**  
**Director of the Huck Boyd**  
**National Institute for Rural**  
**Development at**  
**Kansas State University**  
 Donuts. Muffins. Scones. Hope. Wait a minute, what was that last one? Today we'll meet a young entrepreneur who has started a bakery in her rural community. In addition to baked goods, coffee, and lunches, the ultimate item which she intends to provide to her community is hope for the future.

Jessica Busteed and her mother-in-law, Linda Busteed, are the owners and founders of Cornerstone Bakery in Yates Center. Jessica grew up in the area, near the rural community of Toronto, population 281 people. Now, that's rural.

After living in Texas for a time, she and her husband came back to Kansas. He is now the elementary and middle school principal at Yates Center. For several years, Jessica telecommuted to her job in Houston.

In downtown Yates Center, a couple of older abandoned buildings around the beautiful town square were being sold at a tax sale. The Busteeds were able to purchase them at a bargain price. They wanted to remodel the upstairs as an apartment. "It had suffered weather damage, but was a neat old building," Jessica said.

Linda, Jessica's mother-in-law, was baking pies and brownies for the local farmer's market. Jessica also loved to bake. She was missing the types of coffee she could get in the big city.

The two women decided to remodel the native stone

building and open a bakery and coffee shop. Since the stone building was located on a main corner, they named it Cornerstone Bakery.

They discussed how to decorate their new shop. "I would have gone all froufrou with girly stuff, like a café in Paris, but I wanted a farmer with muddy boots to be okay coming in here too," Jessica said. "I want everybody to be comfortable here."

They decorated the shop in what Jessica calls "farmhouse eclectic." The décor includes inspirational sayings, photos, and classic album covers on one wall. Customers have even donated items to decorate the shop. One plaque in the shop said, "Life happens, coffee helps." Another said, "Bake the world a better place."

Baking is something that the Busteeds enjoy. Cornerstone Bakery offers donuts, muffins, scones and other baked goods along with biscuits and gravy. As business has grown, they have added a daily lunch special, often with apple pie for dessert. Lunches are typically sandwiches, quiche and casseroles with various side salads. The bakery is not open for supper. "You have to get up really early to make donuts," Jessica said.

The bakery offers lattes and various types of flavored coffees. For example: One customer suggested an amaretto dark chocolate flavor.

For the lunch recipes, Jessica and her mother-in-law have experimented with pita bread, goat cheese, and more.

"One of our goals is to expose people to some newer

foods, such as quinoa," Jessica said. "Now people are trying it at home."

"The community is so supportive," she said. People purchase items and offer words of encouragement. Jessica is proud of the new energy and spirit that she sees in Yates Center.

When interviewed about the community for a recent film, Jessica said, "It's thriving. Not only in our community but in our county, it's growing. People are looking for ways to participate."

"There are younger people moving back here," she said. "I want to catch what drew them back. Older ladies will come into the shop and reminisce about good times in the town. They want to help too. New organizations in town are revitalizing the community. We need to communicate a culture of hope. There is hope and hope is contagious."

For more information, look for Cornerstone Bakery on Facebook.

Donuts. Muffins. Scones. Hope. Well, hope may not be specifically listed on the menu, but it is a key part of what is behind the offerings at Cornerstone Bakery in Yates Center. We commend Jessica and Linda Busteed for making a difference with their delicious food and hopeful attitude in rural Kansas. I think I'll have seconds.

*Audio and text files of Kansas Profiles are available at <http://www.kansasprofile.com>. For more information about the Huck Boyd Institute, interested persons can visit <http://www.huckboydinstitute.org>.*



## Making Time

**By Lou Ann Thomas**

When I was young my parents often commented about how it felt as though time was speeding up. I had no idea what they meant. Now that I am the age they were then, I get it.

Almost every day I find myself wondering where has the time gone? And from where does it come? Time may fly, but it can also crawl. Remember when you were young waiting to unwrap your Christmas presents? Time barely moved at all. Then in college when cramming for finals, it blew by at the speed of light. How can that be? Where is the big Universal clock that keeps changing how we perceive and experience time?

Even though we "have time on our hands" we can't put our finger on exactly what it is. We can't hold it, but it can heal us. We can take our time and we can give our time, but we can also waste it, invest it and spend it, and it feels as though, these days, there is not nearly enough of it. Our schedules overflow and before we real-

ize it we have booked ourselves solid with little time for anything or anyone, not even ourselves. And that's when we need to stop and realize that this illusive thing we call time is really what we make of it.

To freely give some time to a friend, a loved one, someone in need, or even to ourselves, is a priceless gift, but we get so full of to-do lists and appointments and everything else that we forget to make time for those we love. We think we'll have time later, after the house is clean, the laundry done, all the errands completed. But

will we "find" time or do we have to make the time?

Maybe it has been awhile since you shared a leisurely lunch with a dear friend. Remember how doing so felt so full and rich? How the conversation wove a tapestry of laughter, of meaning, of love? To make and share time with someone for no reason other than you wish to be in his or her company is one of life's great gifts and experiences.

I now have a better understanding of what my parents were talking about when they lamented the speed with which time was passing for them. It's feeling as though it's speeding up for me too and I don't want to miss any opportunity to clear some space, make some time, and invest something real and worthwhile in the people I care about.

After all, the important thing to remember about time is, we really have no idea how much of it we have.

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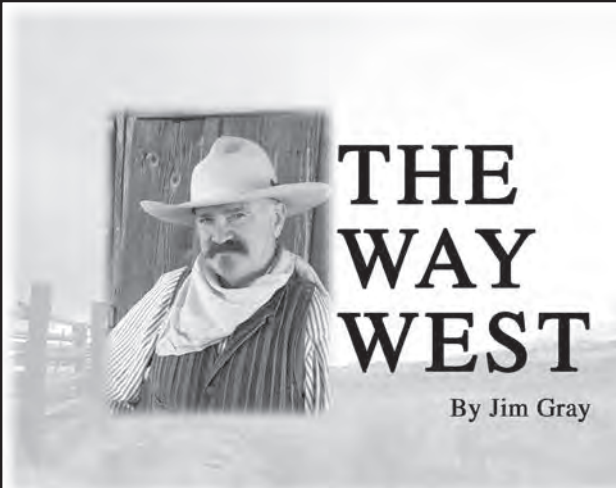
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# THE WAY WEST

By Jim Gray

## Border Man

Nineteen-year-old Bedford B. Wood arrived in Kansas in 1872 to work on the surveying team of his brother, S.T. Wood, who was engaged to survey Indian Territory. At a

claim east of Caldwell in Falls Township S.T. was also building up a farm.

Soon after his arrival in southern Kansas, Bedford joined a group of cowboys

headed to Texas for a return cattle drive to Kansas. Twenty-five miles south of Caldwell at Sewell's trading ranch on Pond Creek they found that the Salt Fork of the Arkansas River was out of its banks.

After several days delay, they had to collect the horses before resuming their southward journey. Using horses kept at the ranch, Bedford along with several of his companions rode out to gather their own horses. Suddenly a puff of smoke from a hidden location in the brush was followed by the report of a rifle shot. One of the riders, Tom Best, suddenly fell from the saddle. Rushing to his defense Bedford and his friends found only a lifeless body. Several Osage warriors rode hard and easily escaped in heavy timber growing along a nearby creek.

Tom Best was buried at the top of a sandy knoll south of the ranch. Bedford evidently returned to Caldwell choosing not to continue further south. The episode was an abrupt introduction to the violence that prevailed on both sides of the southern Kansas border.

For the next two years Bedford helped his brother in his surveying work, keeping busy with occasional ranch work. The knowledge of the lay of the land that Bedford

gained in those two years gave him an important advantage that would serve him the rest of his life.

Bedford soon learned that a man on the frontier could be rewarded handsomely for his industry. As well as surveying and ranch work, Bedford worked his own farm in Falls Township. In April of 1875 the *Sumner County Press* noted that Bedford Wood had sixty acres of wheat that was "hard to beat."

In June Bedford joined an effort to organize a "flouring mill" at the "Falls of the Chikaskia River" (present-day Drury, Kansas). Bedford and a partner planted two hundred acres of wheat in anticipation of the coming mill.

When he wasn't working his fields Bedford could be found in the cow camps of the Cherokee Outlet in Indian Territory. Texas trail drivers often delayed for days and even weeks as they passed through the Outlet, a strip of land just south of the Kansas border. By 1874 the cattlemen were no longer just passing through. They began building temporary cow camps in the Outlet. By the late 1870s outfits set up ranch sites, paying a nominal lease to the Cherokees. Bedford went to work for the Snow and Rannels, an Outlet cattle company about

fifty miles south of the Kansas border. In April of 1881 C. M. Scott, publisher of the *Arkansas City Traveler*, "Stopped a few minutes" at Hatfield and Bedford Wood's camp on Red Rock Creek. Unlike most cowboys of the time Bedford was not tied to only tending cattle. For a short time later that year, he served as a Caldwell deputy marshal.

In August of 1883, he was back on the cattle range as manager for the Union Cattle Company in western Kansas. However, Caldwell called him home to serve as assistant marshal under Marshal John Phillips in 1884. When Sumner County sheriff Cash Hollister was killed in a wild shootout, Bedford led the posse that captured his killer. A few weeks later, November 15, 1884, Marshal Phillips and Deputy Bedford Wood were called to a disturbance at the dry goods store of Witzleben & Key. When Marshal Phillips stepped through the front door he commanded two brawling men to "Throw up your hands!" A few seconds later smoke filled the air. A lead ball struck one of the men, Oscar Thomas, knocking him behind a counter. Thomas was wounded but gave no indication of giving up the fight. At that moment Bedford entered a side door. Through

the gun smoke he fired one quick shot and the belligerent cowboy dropped to the floor with a bullet through his head.

With the reputation of an efficient officer Bedford Wood became marshal of Kingman, Kansas. A few years later, as Deputy U. S. Marshal he moved to Wichita. He was for many years the principal detective on the Wichita police force and served as Chief of Police from 1907 to 1908. According to the *Wichita Daily Eagle*, Bedford Wood knew more criminals and understood their habits better than anyone "then in this section."

In his final years the aging lawman was engaged as a special agent on the Rock Island Railroad and worked as a watchman for the Eagle before passing away March 21, 1920. He was buried in Wichita's Maple Grove Cemetery. Bedford B. Wood seldom spoke of his early days, but wouldn't it have been something to hear him tell of his border exploits on The Way West.

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

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## Increase beef marbling without increasing overall fatness

by George Watson, Texas Tech University

The desire to find the juiciest piece of beef, be it a steak

or ribs or roast, isn't limited to just the restaurant and how it is seasoned or cooked. It starts well before that.

It begins when the cattle are still alive, still being raised and fed, and how and what they are fed. The more ranchers can increase the marbling in beef cattle, the better the beef and the higher the price it can fetch when it is sold. Increasing the marbling in beef is a tricky undertaking, with numerous factors in play.

The key, according to Johnson, could lie in activating a key receptor, the G-coupled protein receptor (GPR43), that

is significantly present in intramuscular adipose tissue but not in subcutaneous adipose tissue.

Brad Johnson, the Gordon W. Davis Regent's Chair in Meat Science and Muscle Biology in the Department of Animal & Food Sciences at Texas Tech University, hopes to unlock one of those secrets to beef marbling without making the cattle fatter and unhealthy.

Thanks to a \$239,693 grant from the USDA, Johnson, a professor in the College of Agricultural Sciences & Natural Resources, and other re-

searchers hope to identify the means by which development of intramuscular adipose tissue, or marbling, can be promoted without also increasing subcutaneous adipose tissue, or back fat.

The grant is sponsored by the USDA's National Institute of Food and Agriculture's (NIFA) Cooperative State Research Education and Extension Service and the Texas AgriLife Research.

"This research would improve the sustainability of beef production worldwide if we can find novel ways to improve marbling without increasing the obesity or adiposity of the cattle," Johnson said.

The key, according to Johnson, could lie in activating a key receptor, the G-coupled protein receptor (GPR43), that is significantly present in intramuscular adipose tissue, but not in subcutaneous adipose tissue.

"If we can find the ligands that bind to the receptors that activate the response in intramuscular adipose, it won't have the same effect in subcutaneous because it is lacking that receptor," Johnson said.

In recent research, Johnson and fellow researchers have discovered that oleic acid, a fatty acid that has been shown to have positive effects on human health, such as controlling cholesterol and reducing cardiovascular issues, strongly affects GPR43 activation. They hypothesize that oleic acid could be the key ligand that binds to the GPR43 receptors, therefore increasing lipid accumulation in adipose tissue, or increasing marbling in beef without activating subcutaneous adipose tissue.

For this research, Johnson will use different models to test the hypothesis, both in the laboratory with cell-culture models and also with cattle themselves during different stages of growth. Johnson's lab has the ability to grow both intramuscular adipose tissue and subcutaneous adipose tissue to test the theories.

"We will do a lot of comparing and contrasting of different factors and look at different novel compounds," Johnson said. "We will see how they respond and are able to turn on marbling adipose. It is a multifaceted approach using beef cattle and also cell-culture techniques."

If successful, Johnson said, an increased understanding of the differences between the two types of adipose tissue could lead to specific technologies that would increase marbling without compromising the health of the cattle, and do so in a way that is financially advantageous for cattle ranchers and beef producers.

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# Jamison Quarter Horses holds 16th Breeders and Ranchers Production Sale

Jamison Quarter Horses presented a standout offering of performance bred horses for their 16th annual Breeders & Ranchers Production Sale October 3 and 4. A 23-state crowd of horsemen from across America was at ring-side for the two day Performance Preview/ Sale event staged at ranch headquarters, Quinter. Auctioneers were Lynn Weishaar and Seth Weishaar. Sale management was handled by United Livestock Brokers, Inc.

Sun Frost, Driftwood and Hancock performance bred horses from western Kansas' big ranch county... that's the program. Arena-caliber ranch horses are the program goal. Stallions PC Frost Em Peppy and PC Citisun Cline (Sun Frost), JA Colonel Frostwood (World Ranch Versatility Champion Three Jay Colonel x PC Laughing Sundust), JA Frostwood Drift (DVA Maxi Driftwood x Sun Frost), Roosters Shorty (Gallo Del

Cielo) and Driftwood Courage (Captain Courage AAAT x Docs Oaks Sugar, Orphan Drift) sire first class, versatile, all-around horses to fit that goal. The JA broodmares are anchored by the direct influence of NFR sire Sun Frost, famed rope horse sire Willywood, Tequesquite Ranch stallions Capitol Letters and Great Pine, AQHA World Ranch Versatility Champion Three Jay Colonel and Wyoming steer roping legend Blue Valentine.

Ranch horses and well-started ranch and arena prospects are the annual sale headline. Also featured were outstanding 2019 foals, JA program broodmares, and a fancy set of ranch-ridden kids' ponies. A full house crowd of ranchers, breeders, trainers, arena competitors and youth riders bid actively on all classes of horses. The success of this event with it's proven bloodlines and quality stand as testimony

for the equine industry's respect for the JA brand and their well-recognized AQHA Ranching Heritage breeding program.

**RANCH GELDINGS**  
\$25,000 Driftwoods Fox, 2012 Buckskin gelding (SNW Northern Frost x WC Driftwood Buck). Buyer - Paul Ranch, Colo.  
\$16,000 JA Colonel Rain, 2014 Sorrel gelding (JA Colonel Frostwood x A Night Train). Buyer - Dalmont Ranch, Okla.  
\$14,000 Driftwoods Lonsum Jo, 2014 Buckskin gelding (Driftwoods Jo x Five Star Joe). Buyer - David Brown, Colo.  
\$12,000 JA Winnwood Cline, 2011 Gray gelding (PC Citisun Cline x Wily Frosty Wood). Buyer - Leroy Young, Oklahoma.  
\$11,000 Cause Ima Rebel, 2009 Sorrel gelding (Rebel Jeb Stuart). Buyer - Vicki Kinser, Tenn.  
\$10,750 PC Go Guy 1126,

2013 Bay gelding (Peponita Cedar 1126). Buyer - Leroy Young, Okla.  
\$10,500 Stanwood Frost, 2015 Buckskin gelding (PC Stan Wood x DVA Maxi Driftwood). Buyer - Anderson Cattle Co., Colo.  
\$10,500 KN Ratchett, 2011 Sorrel gelding (KN Fast Fast Freddy). Buyer - Tenneson Equine, Wash.  
2016 Three-Yr-Old Start-ed Geldings  
\$10,750 JA Rainy Valentine, 2016 Bay Roan gelding (Roan Bar Valentine x A Night Train). Worden Ranch, Tex.  
\$8500 JA Maxi Capitan, 2016 Dun gelding (Docs Capitan x DVA Maxi Driftwood). Buyer - Lytle Ranch, Colo.  
\$8250 JA Gold Sundrift, 2016 Palomino gelding (High Driftin Gold x PC Frost Em Peppy). Buyer - Ox Cart Ranch, Colo.  
\$7500 JA Frostem Rain, 2016 Bay gelding (PC Frost

Em Peppy x Blues Orphan Drift). Buyer- Oleen Bros. Ranch, Ks.  
\$7500 JA Country Frost-em, 2016 Sorrel gelding (PC Frost Em Peppy x TR Special Drift). Buyer - A/L Ranch, Ore.  
Saddle Mares  
\$20,000 Bet On Risto, 2013 Sorrel mare (Bullet-proof Risto). Buyer - Paul Ranch, Colo.  
2019 Foals  
\$7750 2019 Dun colt (PC Frost Em Peppy x Three Jay Colonel). Buyer -Taylor Ranch, N. Mex.  
\$4500 2019 Dun filly (Roosters Shorty x DVA Maxi Driftwood). Buyer - Dugo Livestock, Cal.  
\$3900 2019 Sorrel colt (Roan Bar Valentine x PC Citisun Cline). Buyer - Worden Ranch, Tex.  
\$3700 2019 Bay Roan colt (PC Frost Em Peppy x Wilywood). Buyer - Shafer Ranch, N. Mex.  
\$3500 2019 Red Roan filly (PC Frost Em Peppy x Blues Orphan Drift). Buyer - Tyler Coats, N. Carol.  
\$3400 2019 Dun filly (JA

Frostwood Drift x PC Citisun Cline). Buyer - Tyler Coats, N. Carol.  
Broodmares  
\$6250 PC Laughing Deluxe, 2005 Bay mare (PC Laughing Sundust x Docs Oaks Sugar). Buyer - Cowan T4 Quarter Horses, S. Dak.  
\$6000 Roosters Racy Letters, 2006 Bay mare (Roosters Shorty x Capitol Letters). Buyer - Weeks Ranch, Ks.  
\$4250 Wily Flashy Rocket, 2005 Sorrel mare (Wily Frosty Wood). Buyer - Sunburst Herefords, Utah.  
Kids' Ranch Ponies  
\$5000 Badger, 2013 Gray pony gelding. Buyer - Bob McConville, Neb.  
\$4000 Jasper, 2013 Bay pony gelding, Buyer - Glaze Family, Ks.  
42 ranch geldings averaged \$8282  
1 saddle mare sold for \$20,000  
48 2019 foals – \$2460  
23 broodmares – \$2521  
6 kids' ranch ponies – \$3167  
120 total lots averaged \$4691

## Building local food systems through conversations

By Sarah Green

Local and regional food systems are promising areas of economic development and growth.

That's the premise of the "Harvesting Opportunity" publication from the St. Louis Federal Reserve Bank, and the related "Harvesting Opportunity in Kansas" symposium that took place in Lawrence in 2018.

Economic development is important, but there are additional benefits to communities and overall community development in considering these food systems, said Marlin Bates, director of the K-State Research and Extension office in Douglas County.

There has been sustained work in recent years in Kansas to study and understand barriers and opportunities that could help producers, processors and consumers, Bates said, pointing to the Kansas Rural Center's 2014 "Feeding Kansas" report and the work done by the state's Local Food and Farm Task Force from 2014 to 2016.

Those efforts, along with others in the years since, have been helpful to keep momentum going towards increasing the production of and markets for local food, he said. But they may not be the activities and intensity to achieve substantial results.

"We all like to believe not just that the work we are doing is good, but that it's the right work, and that it's sufficient," Bates said. "We aren't doing enough."

It's necessary to have those conversations and the community's interest, input and buy-in to potential ideas to build and maintain the systems, he said.

"The feds aren't fixing food systems, but local food policy councils are," Bates said, referring to the title of a December 2017 story in The New Food Economy. "Certainly, we are all culpable, if not responsible, for the way things are. If we recognize that, we have to act on those responsibilities."

Luke Mahin, executive director of Republic County Economic Development and a member of the North Central Kansas Food Council, attended the Harvesting Opportunity in Kansas symposium and found it useful in thinking about how the regional council could be helpful to local food

and agriculture businesses.

Some of it, he said, reinforced his current approach to economic development.

"The conversation needs to be asking a farmer what they want to do and what their goals are, instead of the government angle of 'We're here to help,'" he said.

Mahin and Bates spoke about the symposium to the Kansas House Agriculture Committee on Jan. 29, 2019, and, more broadly, about some of the efforts to build local food systems in Kansas.

The committee members asked questions about economic impact and future plans, but they also told stories both during and after the informational hearing about their own experiences with gardens, farms, markets, and local producers, Bates and Mahin said – underscoring the need for those conversations to be part of the bigger narrative.

"If you don't have a good experience with a farmers' market or a local producer, it is hard to connect to that value," Mahin said.

Rep. Jason Probst, a Hutchinson Democrat who serves on the House Agriculture Committee, suggests inviting policymakers to farms, markets and other businesses in the food system to help them better understand what's going well and what could be changed through policies.

Those experiences are helpful to lawmakers to both make progress and to help reduce the likelihood of unintended consequences of policies, Probst said.

"There has to be a way to show (policymakers) that the system in place is in place because of inertia, not because it's best or because it's right or because it's our only alternative," he said. "It's that way because we built this infrastructure around a certain way of doing things, whether it's transportation or food retail, and we perpetuate the systems because they are known, they are manageable, and because undoing them completely would create some upheaval we don't want."

"There's room to start saying, 'What if we create a new system that doesn't replace what we have, but creates alternative routes to get to where we want to go?'"

Opportunities to engage with local and state government officials took place this

summer, Bates said, as Lt. Gov. Lynn Rogers led a listening tour of Kansas communities to guide the work of the newly formed Office of Rural Prosperity.

The Kansas Rural Center hosted a series of town hall meetings across the state to consider the "future of farming" as it relates to food, agriculture, climate and energy issues and rural and urban revitalization.

One idea that could help Kansans come together at any time to talk about food system challenges and opportunities is a structured kind of community conversation, Bates said.

TALK Salina has found success with using the National Issues Forums Institute model for its conversations, said Greg Stephens, a co-coordinator and trained facilitator for the organization.

The model has been useful in helping community members have better, more productive conversations about complicated, systemic issues such as immigration, public safety, the surge in opioid use, mental health care and more, Stephens said. Participants review a discussion guide that outlines the topic and the advantages and disadvantages of potential solutions.

The emphasis is not on statistics but stories about lived experiences; facilitators do not rely on subject-matter experts, but lift up the expertise of the people in the room, Stephens said.

"This isn't about solving problems," he said. "Problems are solved in stages, and the middle parts of those stages are related to behavior change. When you hear people who are politically different than you telling stories about the same issue, that moves people to start rethinking the surface solution's they've come up with."

Stephens said he wasn't aware of community conversations about local food that had been organized in this way – but would be a good fit for the National Issues Forums model.

"Food issues, local foods, and food policy aren't talked about enough in these small communities," he said. "They are significant, complex issues. I think a lot of people don't think there are solutions

to all this stuff. The solution is for people to start solving problems themselves. It's not easy, but if it could happen quickly it could have a big impact."

These stories, including a compilation of all the stories in a pdf, and a story map from the symposium organizers are available on KRC's website at <https://kansasruralcenter.org/harvesting-opportunities/>.

The Harvesting Opportunities Symposium was partially funded by The American Farmland Trust, USDA-Agricultural Marketing Service, the Douglas County Food Policy Council, K-State Research and Extension, the Kansas Rural Center, Douglas County e-Community, the Sunflower Foundation, Douglas County Community Foundation, Douglas County Farm Bureau, Kansas Farmers Union, Kansas Alliance for Wellness, Growing Growers Kansas City and the Community Mercantile.

For more information, contact Mary Fund at the Kansas Rural Center at [mfund@kansasruralcenter.org](mailto:mfund@kansasruralcenter.org) or 866-579-5469.

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I picked up the *Hutchinson News* the other day and columnist Steve Gilliland had written about a couple of topics that reach out and grab me – the evolution of language and the praises of the opossum.

Apparently, the new “cool” term among America’s youth is “awesome possum.”

Well, it’s about time.

The lowly opossum is actually an incredible creature. Officially, it’s the Virginia opossum, so called by Captain John Smith who arrived at Jamestown more than 400 years ago. It is a version of the Algonquin word “apasum” meaning white animal. As a native Virginian, it brings me some pride.

This critter is North America’s only marsupial, an animal with a pouch like a kangaroo or koala bear. Somehow, the possum’s press has not been as favorable as its relatives down under. Having been around for at least 70 million years, it is also one of the Earth’s longest-surviving mammals.

The Virginia opossum is usually the size of a large house cat, though I have encountered a couple the size of dogs. They are omnivores – they will eat anything: insects, plants, and garbage. The biggest possum I ever saw had to have weighed 25 pounds and was going through my garbage can. When I attempted to shoo him away with a broom, he hissed at me and I left him to it. My aunt, back home in Virginia, is always chiding me for being critical of possums since they eat ticks and therefore provide a valuable service to mankind.

As small as this animal is it possesses just amazing characteristics like the prehensile tail that allows it to hang from tree branches. Its little paws are almost like hands with opposable hallux (a hallux is a clawless toe but works just like a thumb allowing the opossum to grip branches and other items).

Of course, the opossum’s most famous characteristic is

its ability to play dead, or play possum. When threatened, it just rolls into a ball and becomes very still in an attempt to fool its attacker into moving on. This is often successful and is a great life lesson. Sometimes it’s best to just be quiet and let the world pass us by. It is also the inspiration for one of my all-time favorite cartoons by my friend, cartoonist Leigh Rubin. One opossum looks down at his friend and says, “You better not be playing because this coffin cost a freaking fortune.”

Awesome Possum.


\*\*\*\*\*

As I write, we are at the Mahaffie House in Olathe while Chef Walter Staib of Philadelphia is filming *A Taste of History along the Santa Fe Trail*. We will update you on airdates. Meanwhile, in Leavenworth, friends are working on the Veteran’s Day Parade and Celebration, the largest west of the Mississippi and the oldest in the country. Let’s make this entire month all about our veterans. Heck, let’s make every day about our veterans.

Have a blessed Veteran’s Day.

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







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**Auctioneer's Notes:** This is one of the very nicest quarters in the area with possibilities to either expand an operation or to invest in very productive land. The pasture is extremely free of brush - cattle can't hide from you in this pasture! Great opportunity! *Hope to see you at the Auction*

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## Advantages to fall weed control

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

While weather has a lot to do with what works from year to year when it comes to field crop weed management, most weed scientists strongly recommend fall weed control programs for our more troublesome weeds like henbit and marestail. How much value do they really have?

A University of Missouri study found that fall removal of winter annual weeds via herbicide applications resulted in higher spring soil temperatures than areas with dense winter annual weed infestations. Removal of the winter annuals resulted in soil temperatures as much as five degrees higher in corn and up to eight degrees higher in soybeans. When it comes to emergence next spring, those temperature differences could be huge.

Available moisture was also an issue. The presence

## Calving schools offered to assist area beef producers

In anticipation of calving season, Kansas State University faculty and staff are planning a series of events from November through January to help boost producers’ chances of a successful year.

Interested persons are asked to pre-register for the calving schools by contacting the local site. Each workshop is hosted by faculty from K-State’s Department of Animal Sciences and Industry, and K-State Re-

search and Extension. The program will outline overall calving management that includes stages of the normal calving process and tips to handle difficult calving situations. K-State Research and Extension beef veterinarian A.J. Tarpoff said the event will increase knowledge, practical skills and the number of live calves born.

“Our goal is for producers to leave better prepared for calving season,” Tarpoff said. “We will discuss timelines on when to examine cows for calving problems, and when to call your vet for help if things are not going well. It’s an excellent program regardless of experience level.”

Presenters will also demonstrate proper use of calving equipment on a life-size cow and calf model. Several of the meetings will cover such topics as body condition scoring cows, colostrum management and animal health product storage and handling. The schedule includes:

- Tuesday, Nov. 19, 5:30 p.m., Morris County Fairgrounds Community Building, Council Grove; RSVP to Flint Hills Extension District at 785-767-5136, or email Shannon Ney at spn@ksu.edu

- Tuesday, Dec. 10, evening, Alfalfa County Fairgrounds, Cherokee, Oklaho-

ma;

Finally, the Missouri work also found that winter annual weeds serve as alternative hosts for corn pests like flea beetles and some Lepidopteran insects. In soybeans, removal of winter annuals in the fall reduced total insect populations ten-fold soon after soybean planting as compared to areas where winter annuals were left until seven days prior to planting.

Who knows what this fall will bring. If the rest of the year has been an indicator, a fall weed control strategy may not be an option. If it is, the benefits are greater than simply getting rid of weeds. Fortunately, lots of options are available. For the most recent recommendations from KSU Weed Management Specialist Dr. Dallas Peterson, see the latest KSU eUpdate online at [https://webapp.agron.ksu.edu/agr\\_social/article/control-annual-weeds-with-fall-applied-herbicides-ahead-of-corn-and-sorghum-358-1](https://webapp.agron.ksu.edu/agr_social/article/control-annual-weeds-with-fall-applied-herbicides-ahead-of-corn-and-sorghum-358-1).

- Thursday, Jan. 9, evening, Edwards County Fair Building, Kinsley; RSVP to Edwards County Extension Office at 620-659-2149, or email Martin Gleason at mgleason@ksu.edu

- Tuesday, Jan. 14, evening, Franklin County Fairgrounds, Celebration Hall, Ottawa; RSVP to Marais des Cygnes District Extension Office at 913-294-4306, or email Katelyn Barthol at kbarth25@k-state.edu


- Thursday, Jan. 16, mid-day, Lane County Fair Building, Dighton; RSVP to Walnut Creek District Extension Office at 785-222-2710, or email Jared Petersilie at jaredp11@ksu.edu

- Thursday, Jan. 16, Trego County Fairgrounds, Commercial Building, Wakeeney; RSVP to Golden Prairie District Extension Office at 785-743-6361, or email Clint Bain at baine@ksu.edu

- Thursday, Jan. 23, KSU Polytechnic College Center, Salina; RSVP to Central Kansas District Extension Office at 785-309-5850, or email Cade Rensink at crensink@ksu.edu

More information about the calving schools is available at [KSUBeef.org](http://KSUBeef.org).

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B&D Ag Enterprises, Savannah, MO 816-344-9381

## ONLINE ONLY AUCTION

**JANICE PRICE & CHRIS SNYDER**

Bidding Opens Wednesday, November 13 • 8:00 a.m. CST  
Soft Closes Wednesday, November 20 • 8:00 p.m. CST

**<http://hollingerauction.hibid.com/auctions/current>**

**Selling 508 lots:** 1943 9N Ford tractor \* *Classic cars-run but need refurbished:* '62 Dodge Custom Convertible, '75 & '77 Chrysler Cordobas plus car parts (fenders, electronic, roof lining etc) \* *Vintage HO Gauge Model trains:* curved & mounted track, Brass Locomotive kit by Varney, Several Varney Die Cast locomotives (some painted & some not), Approx: 30 cars complete in original boxes, 45 completed cars w/no box, 50 kits to assemble in original boxes-Brands represented Strombecker, Varney, Laconia, Silver Streak, Athearn, Globe & misc kits, supplies & books \* Collectible & Newer personal property i.e. Books, Toys, Collector Magazines, Textiles, Furniture, Vintage kitchen appliance & electronics (radio tubes & organ parts).

**Jim Hollinger, Auctioneer/Broker: 620-257-8148**  
**HOLLINGER AUCTION (Stroh's Real Estate & Auction)**

# AUCTION

**THURSDAY, NOVEMBER 14, 2019 — 9:30 AM**

Auction will be held at the Mankato City Hall 217 S High (old National Guard Armory) in MANKATO, KANSAS

**CAR**

2008 Buick Lucerne CXL 4 door car, 3.8 engine, good condition, 159,000 miles, new tires & struts.

**ANTIQUES & COLLECTIBLES**

380 head vases; 280 bobble head noddies; oak curved glass china cabinet; pine 1 door cupboard; 50's high chair; twisted leg oak chair; drop leaf table w/chairs; Bentley grandmother clock; book shelves; sewing box; wooden benches; child's rocker; Cupid Awake Asleep collection; large collection of pictures; Roseville (10-6, 981-6, 845-8, 133-8, 892-6);

child's tea sets; Cape Cod; large assortment figurines; pink depression glass; amber depression; green glass; glass birds; Hull pieces; glass baskets; set china; salt & pepper collection; creamer & sugars; bread boxes; Frankoma; cruet collection; tea pot collection; bell collection; large collection clear glass; refrigerator dish-table w/chairs; Bentley Cassidy pieces; Shirley Temple cup; Aladdin lamps; mini lamps; very large assortment of glass; bottles; viewer & cards; doll collection inc: Cathay, Barbie, 1972 Ideal, Timey Tell, other; doll

clothes; doll shoes; oak wall telephone; 3 metal yard chairs; globes; dominoes; playing cards; games; ladies hats; collector tins; Yankee poster; other baseball items; JD toy scraper; other toys; coaster wagon; crock bowls; granite bowls; US quarters; ladies hankies; costume jewelry; collector books inc: head vase books; Haier compact washer; Comfort Zone electric heater; blonde console sewing machine; Sears model 1220 sewing machine; yard tools; handy man jack; assortment of other collectibles and tools.

**NOTE:** Mrs Fogo has collected for many years, her head vase collection has no duplicates. This is a very large collection with many of each item. Check our web site for pictures at [www.thummelauction.com](http://www.thummelauction.com).

**GLENNA FOGO**

Auction Conducted By: **THUMMEL REAL ESTATE & AUCTION LLC**  
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# Genetic accountability on display during Gardiner Angus Ranch 15th Fall Bull Sale

Seedstock producers share a responsibility to be accountable to their customers and for the beef products sold from their operations and into the supply chain. Gardiner Angus Ranch has been accountable for production methods, genetic improvement through the use of proven tools and technology, and relentless data collection for four generations. This commitment to accountability means sharing of information, accurate record keeping and overall program transparency. GAR customers rely on this information to select registered bulls and registered and commercial female replacements in four sales each year designed to best fit their breeding programs.

The high selling bull was Lot 9, GAR Cache 5108S. His sire, Gardens Cache, offers an outcross pedigree, moderate birth, elite marbling and abundant ribeye. 5108S combines the outcross possibilities of Cache with one of the most proven sires in modern Angus history, GAR Prophet. Theo Costas, TPC Angus, Richland, Miss., paid \$32,000 to own this promising young sire. Randall Grimmus, Grimmus Cattle, Hanford, Calif. won the fierce bidding competition and paid \$25,000 to own Lot 1, GAR Sure Fire E938. E938 is an exceptional calving ease, high value composition of growth and marbling. TPC Angus selected another outstanding Sure Fire son, Lot 26, GAR Sure Fire 6018S, to add to his powerful herd bull battery, paying \$20,000. 6018S, like many Sure Fire sons, is a +13 CED, top 1% marbling, \$B, \$C and top 5% Method Genetics ROI.

Online bidder Jason Faria, FB Genetics, Dumas, Texas, purchased Lot 5, GAR Sure Fire E28, for \$16,000. Three bulls sold in the \$15,000 range. FB Genetics purchased Lots 12 and 35, and Grimmus Cattle purchased Lot 16. Select Sires, Plain City, Ohio, chose Lot 20, GAR Sure Fire E58 as one of the young sires destined for a special international project and paid \$14,500. Repeat progressive commercial cow-calf customer, JLB Ranch, Douglass, added Lot 2, GAR Sure Fire 5478S to their herd sire battery with a winning bid of \$13,000. 5478S is a powerful Sure Fire son that is a top 1% for marbling, \$B, \$C and a Method Genetics trifecta of 1% for MPI, QPI and ROI.

Four bulls, Lots 44, 89, 101 and 102 sold for \$12,500 each to JLB Ranch; Shawn Brett

Sagrera, Ethel, La.; Lyman Marion Ramsay, Grand Bay, Ala.; and Ross Humphreys, San Rafael Cattle Co., Tucson, Ariz., respectively. Three more 20-month-old bulls sold in the \$12,000 range. Lots 22, 45 and 66 sold to JLB Ranch, San Rafael Ranch and FB Genetics, respectively.

The female portion of the auction represented all of the registered cows and heifers scheduled to calve next spring and represent the most current genetics at GAR. The high selling female was a powerful Momentum daughter, Lot 408, GAR Momentum 188S. She is a top 1% for WW, YW, top 2% for marbling and REA and top 1% for \$B and \$C and purchased by the team of Steve Judy, Four Sons Farm, Cynthia, Ky. and Luke Mason, Livingston, Tenn., for \$35,000. Darin Meyer, De Su Angus, New Albin, Iowa, chose Lot 411, GAR Sure Fire F688, a donor quality female that ranks in the top 1% for \$B, \$C, QPI, ROI and marbling and had the winning bid of \$25,000. Repeat buyer, TPC Angus, added an impressive Sure Fire daughter with the purchase of Lot 410, paying \$24,000. The Sure Fire daughters were in high demand throughout the sale. Russell Schilling, Farwell, Texas, selected Lot 409, GAR Sure Fire F588, and paid \$23,000 to own her.

Two impressive Cache daughters, Lots 426 and 427, sold to TPC Angus for \$9,000 each. TPC continued to add to their solid purchases with the winning bid of \$8,500 for Lot 433, GAR Proactive X138; \$8,000 for Lot 413, GAR Sire Fire F318; and \$7,500 for Lot 417, GAR Sure Fire 688S.

Two bred registered heifers, Lots 412 and 430, sold for \$7,000 each to Richie Longanecker, Big Timber Cattle Co., Lithia, Fla. and Doug Peterson, Peterson Prime Angus Ranch, New Boston, Mo.

Three bred registered heifers sold for \$6,000 each. Lots 414, 416 and 441 sold to Big Timber Cattle Co.; Doug Gerber, Gerber Land & Cattle, Richmond, Ind.; and Peterson Prime Angus Ranch, respectively.

At the end of the rapid-fire, 15th Annual Fall Bull Sale, 129 buyers from 24 states purchased 830 head of Gardiner Angus Ranch registered bulls and registered and commercial females.

Volume Buyers—Bulls: Dr. John Mazoch, Bueche, La.; Kaare Remme, McCoy Ranch, San Marcos, Texas; Bert Wil-

liamson, S&J Ranch, Iowa Park, Texas; Steven Mafrige, Y Bar Ranch, Tilden, Texas; Michael Mertz, Mertz 09 Ranch, El Dorado, Texas; Jason Faria, FB Genetics, Dumas, Texas; Tim Thatcher, Thatcher Land & Cattle, Pueblo, Colo.; JLB Ranch, Jim Bosler, Douglass, Kansas; Matt Murphy, Livingston, Texas; Joe Austin, Cienega Ranch, Willcox, Ariz.; Choctaw Nation, Durant, Okla.; Joe Howard & Bobbie Williamson, Switch House Ranch, Wichita Falls, Texas; Ruth Lowrance, Truscott, Texas.

Volume Buyers—Registered Females: Theo Costas, TPC Angus; Richland, Miss.; Fred Harrison, Medora, Ind.; Scott Jones, Willow Creek Farm, Melvern; Charles Jordan, Cedar Grove Cattle, Natchez, Miss.; Mark & Mary Kaltenbach, Ashland; Richie Longanecker, Big Timber Cattle Co., Lithia, Fla.; Elaine and Brendan Martin, Mount Solon, Va.; Doug Peterson, Peterson Prime Angus Ranch, New Boston, Mo.; Aaron Sachs, Sachs Farms, Springfield, Mo.; Mayer Ranch, Guymon, Okla.; Michael Ross, Navasota, Texas.

Volume Buyers—Commercial Females: Mike Gibson, Gibson Ranch, Paducah, Texas; Joe Porter, Porter 5 Farms, Little River; David Oakman, Waurika, Okla.; Cody Noble, Sea Cattle Co., Ardmore, Okla.; Jesse Luckie, Snake Creek Ranch, Ashland; Jon Buller, Ringwood, Okla.

## Sale Total & Averages

Registered Bulls  
271 20-Month-old bulls brought \$1,519,250 and averaged \$5,606. 93 17-Month-old bulls brought 469,000, averaging 5,043. 364 total Bulls brought \$1,988,250 and averaged \$5,462.

Registered Females  
18 bred registered cows sold for \$45,750, for a \$2,542 average. 105 bred registered heifers brought 412,500, \$3,929 average.

123 Total Registered Females brought \$458,250 for an average of \$3,726.

Total Registered Lots – 487  
Head selling for \$2,446,500, \$5,023 average.

12 bred commercial cows – \$19,800, averaging \$1,650. 246 bred commercial heifers sold for 439,100, an \$1,785 average. Two load lots bred commercial heifers brought 135,750 for an average of \$1,597. There were 515 total lots, 830 head sold for \$3,041,150, an \$3,664 average.

balance due on or before December 20, 2019. All inspections including lead base paint inspection to be completed prior to Auction at Buyer's expense if requested. Cost of Title Insurance to be divided equally between Buyer & Seller. **STATEMENTS MADE DAY OF AUCTION TAKES PRECEDENCE OVER ANY OTHER INFORMATION.** **OPEN HOUSE ON REAL ESTATE Wednesday, November 13, 2019, 4-5:30 PM or by appointment by contacting Vern Gannon Broker/Auctioneer 785-770-0066 or Gannon Real Estate & Auctions 785-539-2316.**

# AUCTION

SATURDAY, NOVEMBER 23, 2019 — 10:00 AM  
119 South Nevada — LEONARDVILLE, KANSAS

REAL ESTATE (SELLS APPROXIMATELY 12:00 NOON)

This property has a 2-story home that has 3 bedrooms, living & dining rooms, kitchen & bath, there is a very attractive wood banister & newel post in the entry foyer leading to the upstairs. The home also has a partial basement, 2 detached garage & outbuildings. The Legal description is Leonardville City Survey 1965, Block 21, Lot 3 S 15 of 2, City of Leonardville, Kansas. The home is located across the street from the City Park. Buyer to pay 10% down day of Auction with the

**2017 Toyota Corolla (sells approximately 11:45 AM),** Cloth seats, electric windows, blue with black interior, **ONLY 6,750 MILES**, like new.

Oak dropfront secretary bookcase with curved glass; 2-drawer Oak library table & chair (Leonardville Grade School); 2-door armoire; cabinet base; cane back sewing rocker; Gilbert calendar clock; Gilbert mantel clock; Kitchen clock; 2 Oak wall telephones; single wood kitchen cabinet; old high chairs; square Oak dining table; Oak stand table; Hobart Grocery store scale; school desk; old chairs; oval pedestal table; iron bed headboard; old vintage TV; Coffee grinder; medicine cabinet; electric Aladdin lamp; Planter's peanut jar; 2 kerosene lamps; Pabst Blue Ribbon calendar; Tescott, Ks toothpick holder; Golden Crust Bread thermometer; Crosley designer book; red glasses; horse clock; Apple salt & pepper & grease jar; match boxes; Captain Kangaroo mug; 35 Franklin silver \$1/2; book 1938-1961 nickels (missing 6); trumpet; Viewmaster; large brass front scales; copper boiler; 2 gallon Ruckels jug; 2 stoneware jugs; old bottles; old post cards; washboard; old fruit jars; wire basket; tins; marbles; many books including children's; 9 animal nodders; child's rocker & chair; Ran-

dolph & Leonardville area advertising items; calendars; sad irons; shoe lasts; trivets; cast iron cookware; child's utensils & cookware; Quilts; dolls; metal trays; 1950's games; puzzles; toys; child's metal lawn chair; old bread hats; Scotland stoneware double handled jug; guitar; Globe radio; typewriters; hats; wooden boxes; baskets; kerosene heater; Antlers; straight edge razors; Political pins; brass bell; ball bats; Felix the Cat cup; child's wooden cabinet; 3 washtubs on stands; keys; milk bottles; butchering scrapers; one gallon crock; kitchenware; metal tubs & buckets; 2 well pump handles; coal bucket; traps; milk can; child's sled, trike & wagon; meat hooks; porch swing; wood ironing board; oval tub; glass jugs; license tags; square nails; burlap bags; child's stroller; child's chalk board on stand; old cameras & phones; Sears catalogs; dress form; wood rocking horse; cap guns; magazine; abalone shells; D.A. Lash, Leonardville, Ks advertising thermometer; 2 crock bowls; pop bottles; 122# syrup tin; Crystal Vision 4-camera security system; Ameri Glide Escort stair lift; Whirlpool washer & dryer; portable dishwasher; Amana refrigerator; Cable piano & bench; couch; 2 recliners; Singer sewing machine (blonde cabinet); wood dining

table; wood chairs; 5-drawer chest-of-drawers; 3-drawer dresser with mirror; Poster bed; console electric heater; folding chairs; several bookshelves; pole lamp; 110 window air conditioner; full size bed; TV trays; computer & stand; microwave; toaster oven; lots of picture frames; wheat dishes; green plates & bowls; Reagan knife; sewing notions; floor lamp; vacuum; radios; paper shredder; mirrors; invalid bath bench; card table; baby bassinette; chenille spreads; luggage; trophies; jewelry boxes; Corolle dishes; Corningware; cookbooks; cups; coffee & Pepsi cans; glassware; dishes; puzzles; blankets; bedding; craft supplies; Army blankets; sewing books; afghans; books; food grinders; planters; Royal's glasses; Holiday decorations including lawn cut-out Santa; Coleman cooler; fans; picnic baskets; many what-nots; lamps; Military trunk; step stools; old wooden doors; pop cases; cigar boxes; lots & lots more, many small collectibles; 10" table saw; Dremel jig saw; B&D band saw; older table saw; dolly; ladders; lumber; car ramps; Martin house; older rototiller; bikes; skis; rods; reels; fishing equipment; hammers; sockets; brace & bits; variety tools; scrap metal extension cords; wrenches; chains; wire meat trays.

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# KDA offers reimbursement to specialty crop growers

The Kansas Department of Agriculture has funds available for reimbursement to Kansas specialty crop growers who attend an educational conference with a primary focus on specialty crops. Qualifying conferences may include sessions about production practices, specialized equipment and technology, pest and disease management, specialty crop marketing practices, or business principles for specialty crop producers.

Applicants who apply for the reimbursement will be required to attend the conference and to complete surveys before, immediately after, and six months post-conference prior to payment being issued. Conferences not eligible will include those within the state of Kansas and the Great Plains Growers Conference. KDA will reimburse Kansas specialty crop growers up to \$850 each in order to offset the cost of their conference registration, mileage/flights, hotel, meals, etc. The award is available on a first-come, first-served basis. The deadline for application is December 15, 2019.

Examples of conferences that may be eligible for applicants to attend include, but are not limited to:

North American Strawberry Growers Association Conference; January 19-22, 2020; San Antonio, Texas

North American Raspberry & Blackberry Association Conference; March 3-6, 2020; St. Louis, Missouri

Great Lakes Expo Fruit, Vegetable, & Farm Market Conference; December 10-12, 2019; Grand Rapids, Michigan

Mid-Atlantic Fruit and Vegetable Convention; February 28-30, 2020; Hershey, Pennsylvania

Southeast Regional Fruit & Vegetable Conference; January 9-12, 2020; Savannah, Georgia

This program is made possible by a U.S. Department of Agriculture Specialty Crop Block Grant (SCBG). The SCBG makes funds available to state departments of agriculture solely to enhance the competitiveness of specialty crops. According to USDA, specialty crops are defined as "fruits, vegetables, tree nuts, dried fruits, horticulture and nursery crops, including floriculture."

This grant fits KDA's mission to provide an environment that enhances and encourages economic growth of the agriculture industry and the Kansas economy. For application details, go to the KDA website at [www.agriculture.ks.gov/grants](http://www.agriculture.ks.gov/grants). Questions should be directed to Lexi Wright, From the Land of Kansas program coordinator, at 785-564-6755 or [lexi.wright@ks.gov](mailto:lexi.wright@ks.gov).

# AUCTION

SATURDAY, NOVEMBER 23, 2019 — 10:00 AM

Auction will be held at the Fairgrounds on the East side of CONCORDIA, KANSAS

## YARD EQUIPMENT & TOOLS

50 lots of collector coins; Troy Bilt 27 log splitter w/Honda engine on 2 wheels; Troy Bilt chipper shredder; 1 sack cement mixer like new; Husqvarna 345 chain saw; Stihl 391 chain saw; Stihl weed eater; electric sewer cleaner; 1/3 hp air compressor; Speedway drill press; grinder on stand; portable power pac; 1 section new scaffolding; 6' new step ladder; tool boxes; large assortment hand & electric tools; Larson house doors new; new storm doors; porch swing; electric heaters; BB gun; traps; nail keg; crock jug; assortment fishing poles; pr. iron wheels;

wash tub; several granite pans; Mobil grease can; cast iron pans; meat grinder; tin boiler; assortment jars; garden planter; assortment garden tools; gas cans; large assortment of other items. There are many boxes we have not looked in. This will be a large collection.

**SELLER: CAROL PADGETT**

## ANTIQUES, COLLECTIBLES & TOOLS

Winchester 62 pump 22; Ithica 20 ga; Mossberg 410; 16 ga double barrel; assortment ammo; bow; oak 2 door flat glass china cabinet; oak drop front desk; cast iron bed; 20's

dining room table; white kitchen table & chairs; 30's buffet; 60's dresser; 30" butcher block; kerosene lamps; purple carnival glass; goofus plate; set Castleton china; Staffordshire china; Roseville vase; assortment glass; Toys inc: The New Betsy Ross sewing machine; Donald Duck Duet windup; tin doll house; red globe lantern; farrier equipment; horseshoes; cast iron shoe lass on stand; MTD Gold 24" snow blower; Craftsman radial arm saw; steel posts; hog panels; assortment of other items.

**SELLER: RAY NEWMAN**

**NOTE: We have combined two collections.**

Check our website for pictures & coin list at [www.thummelauction.com](http://www.thummelauction.com).

**Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC  
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# Kansas Forage and Grassland Council and K-State to host Winter Forage Conference December 10 in Wichita

Kansas Forage and Grassland Council and Kansas State University will host their annual Winter Forage Conference from 9 a.m. to 3 p.m. on Tues., Dec. 10 at the Sedgwick County K-State Research and Extension Center.

"This conference provides an overview of topics that are

relevant to Kansas cattlemen and forage growers," says Dale Helwig, Cherokee County Ag Agent.

Agricultural specialists will speak on a variety of topics such as extending the grazing season using cover crops, techniques to reduce hay costs, using alfalfa in the

cattle industry, and Old World Bluestem.

Featured speakers include Justin Waggoner, KSU southwest Extension specialist; Jaymelynn Farney, K-State southeast area beef specialist; and Walt Fick, KSU range management specialist. In ad-

dition, there will be a farmer panel discussing "Grazing Techniques to Reduce Hay Cost."

"Our presenters are some of the leading experts in Kansas. It's always great to hear from growers and grazers on how they're making things work on

their farm," said Roger Black, KSFGC president.

The event is free for current KSFGC members. To learn more, go to <https://ksfgc.org/upcoming-events/>. Non-members may RSVP online at <http://bit.ly/KSFGCam> (case sensitive) or at the door

for \$60. Registration includes a membership to KSFGC and lunch. A fee of \$15 will be added for each additional farm member who attends.

The first 40 people through the door will get a free KSFGC cap. Raffle prizes will also be drawn throughout the day.

## River Valley holding a Ladies Night Out Nov. 19

K-State Research and Extension is bringing you yet another Ladies Night Out event! What's Your Beef? Come listen to a registered dietitian share her experiences on beef nutrition outreach. This event will be held on November 19th, 2019 at 6:30 p.m. at the Cloud County Co-op Conference Room (1410 E. 6th Street Concordia, KS 66901). The guest speaker for the evening is Abby Heidari from the Kansas Beef Council. Abby is a registered dietitian-nutritionist for the Kansas Beef Council. Abby is passionate about sharing science-based nutrition information with consumers. Join them for a fun night of networking and agriculture. Cupcakes will be provided. Contact Kelsey Hatesohl in the Washington Extension Office (785-325-2121) with any question you might have regarding this event.

## Did the New York Times really run a pro-meat advertisement?

Yes, they did.

The Center for Consumer Freedom (CCF) placed a full-page advertisement in *The New York Times* that reveals the plethora of ingredients in plant-based products. Nearly 50% of consumers incorrectly believe plant-based proteins to be healthier than real meat. Therefore, CCF states it is important for the public to know what they're eating.

"Plant-based meat is a factory-made, ultra-processed imitation, not a medley of vegetables. Despite what people who hawk the product may believe, fake meat is not healthier than real meat," said CCF managing director, Will Coggin.

Many plant-based products contain dozens of ingredients. The National Institutes of Health found that ultra-processed foods can cause weight

gain and overeating, which can contribute to a variety of health problems, according to Drovers.

Fake product companies aim to exploit stories about the need to reduce consumption of real meat. However, as previously reported, according to recent findings in the *Annals of Internal Medicine*, reducing red meat consumption has little to no effect in reducing the

risk of heart disease, cancer or stroke. In addition, if all Americans were to stop consuming products from animals, U.S. greenhouse gas emissions would only decrease by 2.6%.

This is the fourth advertisement in CCF's effort to educate the public on this topic. Previous advertisements on the subject have run in *USA Today*, *The Wall Street Journal*, and *The New York Post*.

## Soil testing: sampling for the sake of it – or to gain valuable information

A good fertility program has a lot to do with a knowledge of a plant's requirements for growth balanced with what the soil can provide. That's where a good soil test can be invaluable.

What is a good test and how do you get it?

Start by asking why you are sampling. If evaluating a poor performing area, the sampling protocol will be different than when you are determining an

'average' fertilizer application rate. If trying to fertilize zones/grids on a precision basis, the sampling procedure will be different than if looking for a whole farm/field/garden nutrient level. If you participate

in a cost share program that requires soil sampling, be sure to know what the program requires.

Collect an appropriate number of cores. A single core is not acceptable. The variability is too high. Base soil test recommendations on a minimum of 12-15. More is better.

Keep sampling depth consistent. Organic matter, pH, and other nutrient levels can vary significantly with depth. For the more routine nutrients (pH, organic matter, phosphorus, potassium, and zinc), sample to a six-inch depth. Sampling from varying depths

can skew results and not accurately show what the soil is providing for nutrients in the root zone. When sampling for mobile nutrients (nitrogen, sulfur, or chloride), a two-foot sample depth is more appropriate.

Avoid 'patterns' when sampling. Zig-zag back and forth rather than following planting, tillage or fertilizer application equipment. Non-uniform fertilizer applications can and do occur. Sampling in a more random pattern helps offset potential uniformity issues. If grid sampling, collect accurate GPS coordinates that will

allow you to return to the same spot when sampling next time – then sample in a five to ten-foot radius around the center point for best results.

If you are evaluating a poor growth spot or uniformity issue, sample normal and abnormal areas separately. This will help determine if a nutrient is the issue or something else.

Watch for trends over multiple sampling cycles to get an even better idea as to how your nutrient management program is performing. For best results, sample at the same time of year (fall is an excellent time...) and following the same crop each time.

A soil sample is a relatively inexpensive way to get some really good information about what the soil can provide for the growing crop or turf stand or even a garden. You can make that good information even better if you follow some of these guidelines.

For more information on soil testing – for crop, forage, garden, or landscape – contact any of our Meadowlark Extension District Offices or e-mail me directly at [dhallaue@ksu.edu](mailto:dhallaue@ksu.edu). Soil probes are available for checkout via any Meadowlark Extension District Office.

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# Grass & Grain Area Auctions and Sales

Sealed Bid Land Auction (bidding ends November 13) — 134 acres m/l of Riley County land. Jason Wallingford, TrophyPA.com

Online Only Auction (opens Nov. 13, soft closes Nov. 20) — 1943 9N Ford tractor, classic cars including '62 Dodge Custom Convertible, '75 & '77 Chrysler Cordobas, car parts, vintage HO gauge model trains, collectibles, books, toys, magazines, textiles, furniture, vintage kitchen appliances & electronics & more online at [hollingerauction.hibid.com](http://hollingerauction.hibid.com) for Janice Price & Chris Snyder. Auctioneers: Jim Hollinger, Hollinger Auction (Stroh's Real Estate & Auction).

Online Only Auction (opens Nov. 14, starts to close Nov. 21) — Large selection of quality woodworking equipment, neon signs, Marlboro & tobacco collectibles, automobiles, farm wagon, boat, collectibles & more online at [www.dlwebb.com](http://www.dlwebb.com). Auctioneers: Dave Webb, Webb & Associates Auctions & Appraisals.

November 11 — Complete Dispersal of the Spring-Calving Herd held at Cottonwood Falls for Hinkson Angus Ranch.

November 12 — 80.9 acres m/l in Coffey County including wildlife habitat, cropland & grass held at Lebo for Betty Sullivan. Auctioneers: Griffin Real Estate & Auction Service, LLC.

November 12 — 480 acres m/l Thomas County cropland & country home w/buildings NW of Levant in 4 tracts. Auctioneers: Farm & Ranch Realty, Inc., Don Hazlett, broker.

November 13 — 347 +/- acres Harper County land selling in 2 tracts at the Zenda Community Building. Auctioneers: Hamm Auction & Real Estate.

November 14 — 2008 Buick Lucerne CXL, antiques & collectibles including 380 head vases, 280 bobble nodders, furniture, Roseville, glassware, lamps & more held at Mankato for Glenna Fogo. Auctioneers: Thummel Real Estate & Auction, LLC.

November 15 — 320 acres m/l Rush County cultivation land held at LaCrosse. Auctioneers: Farmland Auction & Realty Co., Inc.

November 15 — 6,300 acres m/l cropland, grass & CRP at Cheyenne Wells, CO - 17 tracts. Auctioneers: Farm & Ranch Realty, Inc., Don Hazlett, broker.

November 15 — 160 +/- and 60 +/- acres selling in 2 tracts along with '36 Ford car parts, appliances, antiques, furniture and tools in Eureka for the Thomas J. Williams

Trust. Auctioneers: Sundgren Auction.

November 16 — Vehicles, trailers, tools & shop, good usable steel & lumber & miscellaneous held at Newton for Vern Koch and Dorothy L. Koch Estate. Auctioneers: Auction Specialists, LLC.

November 16 — Firearms, collectibles, household, tools & miscellaneous held at Ottawa. Auctioneers: Elston Auctions.

November 16 — Real Estate (vintage 4BR, 2BA home built in 1976, very unique); 2011 Chevrolet Impala, household, collectibles, artwork & much more held at Manhattan for Ray & Patricia Weisenburger Estate. Auctioneers: Gannon Real Estate & Auctions.

November 16 — Farm machinery & misc. held Northeast of Abilene for Jared Hoover. Auctioneers: Kretz Auction Service.

November 16 — Wood shop, lumber, woodworking equipment, tractors & related items to sell at Hutchinson for the Zeller Estate. Auctioneers: Van Schmidt Auction.

November 17 — Real estate (1965 ranch-style home with 2BR, 1BA); personal property including Coins, pottery, tools, mower, tiller, household, antiques, collectibles & more at Marion for property of Norma Riggs and the late LeRoy Riggs. Auctioneers: Griffin Real Estate & Auction Service, LLC.

November 17 — personal property including furniture, collectibles, baby grand piano, Buick car, household, tools, garden items & more held at St. George (real estate sells Dec. 5). Auctioneers: Crossroads Real Estate & Auction, LLC.

November 17 — 197 acres m/l of Northwestern Pottawatomie County land including timber, grassland & hayland, wildlife habitat, 2 bedroom ranch-style home, outbuildings; also selling tools held at Olsburg for Edward Jones Trust Company, trustee of the Charles Scott, Jr. Trust. Auctioneers: Cline Realty & Auction, LLC.

November 17 — Side by side, four wheeler, pickup, guns, Fenton, collectibles, furniture and miscellaneous items to sell in Council Grove for a private seller. Auctioneers: Hallgren Real Estate & Auctions.

November 18 — 160 acres m/l Ellis County cultivation land held at Hays. Auctioneers: Farmland Auction & Realty Co., Inc.

November 18 — Farm machinery held South of Abilene for Greg & Kari Beetch. Auctioneers: Kretz Auction Ser-

vice.

November 19 — 1,414.62 acres in 5 tracts in Marion County including grass, watershed, cropland & wildlife held at Marion for Tim & Lisa Donahue (Trusts) and Andrew & Krista Donahue. Auctioneers: Griffin Real Estate & Auction Service, LLC.

November 19 — 240 acres Sheridan County, KS cropland NE of Hoxie near Lucerne - 3 tracts. Auctioneers: Farm & Ranch Realty, Inc., Don Hazlett, broker.

November 20 — Harvesting, tractors, trucks, trailers, farm equipment, skid steer, forklift, ATV, pickups & other farm items held near Holcomb or Deerfield for Gerald & Bill Danler, Terry & Marilyn Danler. Auctioneers: Berning Auction, Inc.

November 21 — 230 acres m/l of Douglas County land including cropland, pasture, wildlife habitat in 2 tracts held at Lawrence. Auctioneers: Midwest Land & Home, Jeff Dankenbring, Mark Uhlik.

November 21 — 156 acres m/l of highly productive Northern Pottawatomie County pasture & farmland held at Onaga for Jolea Matzke. Auctioneers: Murray Auction & Realty, Steve Murray.

November 21 — 400 acres m/l Phillips Co. land in 3 tracts to be held in Phillipsburg for the Zink family. Auctioneers: Farmland Auction & Realty Co., Inc.

November 23 — Tractors inc. 1997 Cat Challenger 55, JD 3020 & more, machinery, hay equipment, trucks, trailer & lots of miscellaneous held at Sabetha for Don K. & Marianne Meyer Estate. Auctioneers: Wilhelm Auction Service.

November 23 — Guns, antique stoves & cast iron ware, other antiques & collectibles, 2004 Anniversary Edition Mustang, dog kennel pens & equipment, boat, lawn & garden, signs & advertising, household & industrial items held at Waverly for Bud & Karen Redding, Joan Stone-Stewart, Dorothy Wyrick, Kevin McMillan. Auctioneers: Kurtz Auction & Realty Service.

November 23 — Tractors, trucks, farm machinery & related items held at Moundridge for Norman & Nadine Wedel. Auctioneers: Van Schmidt Auction.

November 23 — Antiques

& collectibles including 100+ covered animal dishes, pottery, modern quality furniture, guns, Centurion D23 gun safe held at Marysville for Dr. Don & EllaMae Argo. Auctioneers: Olmsted & Sandstrom.

November 23 — Yard equipment, tools, antiques, collectibles held at Concordia for Carol Padgett and Ray Newman. Auctioneers: Thummel Real Estate & Auction, LLC.

November 23 — Antique tractors, tractors & equipment held at Strong City for property of Gary & Brenda Bruch. Auctioneers: Griffin Real Estate & Auction Service, LLC.

November 23 — Real Estate & personal property including a long term service station setting on over an acre with outbuilding & 2 service bays held at Emmett. Auctioneers: Crossroads Real Estate & Auction, LLC.

November 23 — 2-story, 3BR home, 2 detached garage & outbuildings, 2017 Toyota Corolla, furniture, antiques, collectibles, advertising, household, tools & misc. at Leonardville for Harold (Sprug) & Margery Burgman Trust. Auctioneers: Gannon Real Estate & Auctions.

November 23 — Farm machinery & collectible items held Northeast of Riley for Eldo & Elaine Heller Trust. Auctioneers: Cline Realty & Auction, LLC.

November 23 — Annual Bull Sale held Northwest of Eureka for Dalebanks Angus.

November 24 — 2017 Massey 1734E tractor w/loader, Ford 4000 tractor, 2000 Chevy Silverado 1500, zero turn mower, lawn & garden items, tools, furniture, household & collectibles held at Americus for The Estate of E.M. Boyce. Auctioneers: Griffin Real Estate & Auction Service, LLC.

November 24 — 2 Real Estate Auctions: 1 PM: 4BR, 1BA home with 5 acres m/l held at Belvue; 3 PM: 1BR, 1BA investment property at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

November 24 — Tractor, pickup, tools, concession trailer items, lawn & garden, household, Christmas swords, canes held at Vassar for Bob and Pat Horne, former Happy Trails Chuckwagon. Auctioneers: Wischropp, Elston, Griffin.

November 26 — Farm retirement auction including tractors, combine, farm equipment & much more held at Belleville for James & Carol Levendofsky. Auctioneers: Sullivan Auctioneers, LLC.

November 30 — Farm machinery, livestock equipment,

unique antiques, furniture & collectibles held South of Manhattan for Leroy Fechner Estate. Auctioneers: Cline Realty & Auction, LLC.

November 30 — Tractors, trucks, skid loaders, balers, construction equipment, good line of farm equipment held at Enterprise for Lyle Diehl Estate. Auctioneers: Reynolds Auction Service.

December 1 — Estate gun auction selling approx. 150 guns held at Salina. Auctioneers: Wilson Realty & Auction Service.

December 2 — Farm machinery & livestock equipment held in NW Dickinson County near Longford for Verl Wolf Estate. Auctioneers: Kretz Auction Service.

December 3 — 389.10 +/- acres Pratt County cropland & pasture to sell in 3 tracts held at Pratt. Auctioneers: Farmers National Company.

December 5 — Guns & coins held at Clay Center for Delmer Kahrs Estate. Auctioneers: Kretz Auction Service.

December 5 — 2 bedroom, 1 bath home along with just under 4 acres held at St. George. Auctioneers: Crossroads Real Estate & Auction, LLC.

December 5 — 3 bedroom, 2 bath home, full basement, fireplace & more held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

December 5 — Farm machinery & miscellaneous held Northwest of Wakefield. Auctioneers: Kretz Auction Service.

December 7 — Over 1,000 toys held at Clay Center for Delmer Kahrs Estate. Auctioneers: Kretz Auction Service.

December 7 — Real Estate & personal property including 6 BR, 5 BA home; and a 30x80 business building on 1 acre m/l and personal property held at Manhattan for All About Quilts closing auction. Auctioneers: Crossroads Real Estate & Auction, LLC.

December 7 — Consignment sale held at Salina. Auctioneers: Wilson Realty & Auction Service.

December 7 & 8 — selling 12-7: Indian item collection including jewelry, pictures, blankets, prints & collectibles and Halloween & Christmas

items; selling 12-8: Furniture, dolls, toys & collectibles held at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

December 9 — 160 acres m/l of Lane County cultivation land held at Dighton. Auctioneers: Farmland Auction & Realty Co., Inc.

December 10 — Farm Machinery & equipment auction at Cheyenne Wells, CO. Auctioneers: Farm & Ranch Realty, Inc.

December 12 — 4 irrigated quarters NW of Dodge City in 4 tracts. Auctioneers: Farm & Ranch Realty, Inc., Don Hazlett, broker.

December 13 — 183 acres m/l Russell County cultivation & grass held at Russell. Auctioneers: Farmland Auction & Realty Co., Inc.

December 14 — 155 acres m/l of Ottawa County pasture land held at Minneapolis for Carol Tilton. Auctioneers: Midwest Land & Home, Mark Uhlik, Jeff Dankenbring.

December 14 — Liquidation of the entire auto mechanics class of Abilene High School including car lifts, automotive tools, diagnostic equipment, engine hoists, valve grinders, brake equipment, complete line of automotive & shop equipment held at Abilene for USD 435. Auctioneers: Reynolds Auction Service.

December 14 — 156.06 acres m/l of Nemaha County farmland held at Centralia for Alfred Roeder Trust. Auctioneers: Cline Realty & Auction, LLC.

December 15 — Approximately 150 guns for an estate auction held at Salina. Auctioneers: Wilson Realty & Auction Service.

January 25, 2020 — 240 acres m/l of Washington County cropland held at Linn for Dianne Brooks. Auctioneers: Midwest Land & Home, Mark Uhlik, Jeff Dankenbring.

February 8, 2020 — Production sale at Leavenworth for J&N Ranch.

March 14, 2020 — Equipment, trucks & salvage held at New Cambria for Don Janssen Estate. Auctioneers: Reynolds Auction Service.

April 11, 2020 — Fink Beef Genetics Spring Angus and Charolais Bull Sale held at Randolph.

## RETIREMENT FARM MACHINERY AUCTION

**SATURDAY, NOVEMBER 23, 2019 — 10:00 AM**

We are retiring from farming. Auction located from RILEY, KS: 2 miles North on Hwy 24 to Fairview Church Rd., then 2 3/4 miles East or 7 miles South of Randolph, KS. on Hwy 77 to Fairview Church Rd., then 1 1/4 miles West to 10140 Fairview Church Rd., RILEY, KS. LUNCH ON GROUNDS!

**TRACTORS, COMBINE, HEADS & TRAILERS** including: White 120 dsl. tractor; 1966 Oliver 1650 gas tractor w/ 325 DuAl loader; Oliver 1650 gas tractor; Oliver 1550 gas tractor; 1989 Case IH 1660 dsl. Axial Flow combine; Trail Eze 680 header trailer & more!  
**TRUCKS & PICKUPS** inc.: 1973 GMC 6000 V8 straight truck; 1987 GMC S15 4x4 long bed PU; 1955 Chevrolet 3600 PU, not running; 1955 Chevrolet 3600 PU, not running - both pickups restorable & more!

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**See last week's Grass & Grain for Listings & visit our website!**

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

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785-889-4775 or 785-532-8381

Austin Cline, Auctioneer, Frankfort, KS, 785-565-3246

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## AUCTION

**SATURDAY, NOVEMBER 16, 2019 — 9:00 AM**

Offering for sale at Public Auction, located at 3305 E. 95th St. — HUTCHINSON, KANSAS

**WOOD SHOP, LUMBER, WOODWORKING EQUIPMENT**

26'x60' mobile classroom converted to wood shop, designed to be moved in 2 pcs., fully insulated, finished & wired; 15,000 board feet furniture grade rough sawn lumber, 2x & 1x: Oak, Pecan, Pine, Cedar, Sycamore, Cherry, Walnut, new 750 sq. ft. hardwood finish flooring; 20 - 30' 1/2 single pitch trusses; 32 - 14' 1/2 trusses; 7x12 storage lumber racks; misc. planed lumber; 4x6 Oak timbers; Foley 387 auto saw filer, complete sharpening system; 9' wood lathe & gouges; Industrial drill press on stand; 2 - Pow-Kraft 10" radial arm saws; Powermatic Industrial shaper & bits; Craftsman 12" band saw; Craftsman 9" table saw; B & D 8" table saw; Dunlap table saw; Delta 15" scroll saw; Craftsman 8" chop saw; 3 Craftsman shapers; Skil 10" band saw; 12" jointer/planer; 2 Craftsman drill presses; Jobsmart 30 gal. air compressor; router table; Ring Master bowl maker; 1" belt/disc sander; dust collection system; 6x24 belt sander; 4" jointer/planer; Craftsman 4' wood lathe; 1/2 hp Belsaw; 4.5" band saw; roller stands; Craftsman router; Craftsman planer; cordless & elec. drills; bench grinder; saw horses; adj. wrenches; sockets; sanders; numerous bits; organizers; hardware; shop vac; floor & high lift jacks; shop tables with vise; hand tools; wood planes; levels; ext. ladders; numerous bar clamps; paint; stain; pipe threader.

**TRACTORS & RELATED ITEMS**  
John Deere B tractor, 3 pt., pto; Case 930 propane tractor, hyd., pto; Ford 8N tractor with loader, new tires, 3 pt., pto; 5' rotary mower; 2 wheel pickup bed trailer; 8x16 tilt bed trailer; 5x10 utility trailer; sm. utility trailer; 5 kw generator in enclosed trailer with distribution panel & switches; log splitter, 11 hp motor; Industrial chipper/shredder, 5 hp; power washer, 1800 psi; Stihl 032 AV chainsaw; Stihl line trimmer; Lincoln 225 amp welder; 2 wood stoves; 10' tandem disc; single btm. plow; 2 btm. plow; buzz saw rigs & blades; woven wire; barrels; 31' 3x3 galvanized angle iron; T-posts; dirt slip; deer stands; camping supplies; fuel tank & stand; Bolens riding mower; BB gun; brick; limestone rock; cement blocks; cable; wire; pipe; tin; poles; log chains; tires & wheels; fishing supplies; tractor parts; wheelbarrow; wash tubs; metal shelving; dolly cart; swing set; coaster wagon; old doors & windows; wall telephone; salvage iron; chairs; jars; household items; & more.

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

## UPCOMING AUCTIONS

- **Fri., Nov. 15, 2019:** 320± Acres Cultivation Rush Co., KS. **Auction Location:** LaCrosse Livestock Market, 2340 US-183, LaCrosse, KS. **Time:** 10:00 am
- **Mon., Nov. 18, 2019:** 160± Acres Cultivation Ellis Co., KS. **Auction Location:** Rose Garden Banquet Hall, 2350 E. 8th St., Hays, KS. **Time:** 10:00 am
- **Thur., Nov. 21, 2019:** 400± Acres Cultivation & Grass Phillips Co., KS Phillips Co., KS. **Auction Location:** Huck Boyd Community Center, 860 Park St., Phillipsburg, KS. **Time:** 10:00 am
- **Mon., Dec. 9, 2019:** 160± Acres Cultivation Lane Co., KS. **Auction Location:** St. Theresa Church Center-335 S. 1st St., Dighton, KS. **Time:** 10:00 am
- **Fri., Dec. 13, 2019:** 183± Acres Cultivation & Grass Russell Co, KS. **Auction Location Tract 1:** Dole Specter Conference Center-1430 Fossil St., Russell, KS. **Time:** 10:00 am. **Auction Location Tract 2:** Lucas Comm. Theater- 116 S. Main St., Lucas, KS. **Time:** 1:30 pm

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## AUCTION

**SATURDAY, NOVEMBER 16, 2019 — 9:30 AM**

**1728 Cow Palace Road — NEWTON, KANSAS**

*This auction has something for everyone. You won't want to miss it!*

**VEHICLES & TRAILERS:** 2005 Dodge Caravan (slick, 114K); 2004 GMC Yukon XL (1 owner) 238K; 6x20 gooseneck livestock trailer (above average); 9'x18' shop built steel bed hay trailer; Men & Women Port-a-Potty on Trailer.  
**TOOLS & SHOP:** Craftsman 65Hp, 220v, 33 gal. air compressor; air hose reel; antique tools; Lincoln 180 amp welder; Craftsman 6 1/8"x36" jointer-planer (NIB); HDC 4" belt & 6" disc-sander/fold-away bench; Shop Smith Mark V Model 510 Workshop System (call Vern); Shop Smith Dust Collector; Shop Smith 11" Band Saw; Homelite Super 2 chain saw 16"; (3) 50+ 220 welding extension cords; 2'x8' steel 5 shelf unit; 7 rack hardware nail bin; Delta 10" compound miter saw; Craftsman floor model 1/2" drill press; 4' level/case; DuraCraft dual stone grinder; Waterloo 15 drawer roll-a-way tool box; cutting torch set/dolly; radial arm saw; Delta 10" compound miter saw; small power & hand tools; shovels; log chains; come-a-longs, etc.: Magic Miter NIB; small anvil; Pro-King clamping device; Fill Rite 12V fuel pump and more.  
**Good Usable Steel & Lumber:** (6) 40' Trusses (3" pipe) (14) 24'x18" rebar & other rebar 5"x6" Square Tubing (5) 6"x12"x25' I Beams (11) 3"x10"x14' I Beams (7) 2 "x16" Pipe (28) 2"x6"x14" Yellow Pine (15) 2"x8"x14" Yellow Pine Other Used Lumber  
**MISC.:** Several Newton business signs 27"x44" (mid-last century); (2) 20"x40' tents; cast iron seats inc. Oliver chilled plow works, Hoosier, Buckeye, CW&WW Marsh, Sycamore ILL & others; yard bell; catering equipment; large tea jugs; large ice chest; chaffing pans, etc.; Kenmore electric dryer (good); Kenmore top freezer refrigerator (good); 40"x12' wooden top table; 30"x6' multi-shelf storage rack; yard statuary; Kerosun heater; 2 sleds; 3 IH front weights; 3 pt. bale carrier; 10' - 6 Bar livestock gate; 10 - 9"x6' aluminum ramps & more.

**VERN KOCH & DOROTHY L. KOCH ESTATE, SELLERS**



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**TERMS:** Cash or check with proper ID as payment. Not responsible for theft or accidents. Announcements made sale day take precedence over printed matter. Nothing removed until settled for.

## AUCTION

**SUNDAY, NOVEMBER 24, 2019 — 10:00 AM**

**2798 Front Street — VASSAR, KANSAS**

2000 Ford 150 XLT ext. cab pickup; IH 240 utility tractor; Gravely XT front deck mower; '06 Falcon 5x10' trailer; Iron Horse 60 gal. upright air compressor; Onan Marquis 7000 generator; MillerMatic 35 wire welder; bolt & misc. cabinets w/contents; GE refrigerator, garage quality; 3 freezers; Fairbank No. 11 1/2 platform scale; selection of met-

**MANY, MANY OTHER ITEMS. TWO RINGS. NOTE: Bob & Pat Horne served concessions for many years as HAPPY TRAILS CHUCKWAGON. Large Auction with great cross-section offered. BOB & PAT HORNE - Formerly Happy Trails Chuckwagon**

**Auctioneers: Wayne & Craig Wischropp**

**Mark Elston & Buddy Griffin**

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## LAND AUCTION

**389.10± Acres • Pratt County, Kansas**



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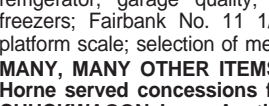
**Tuesday, December 3 • 10:00 AM**

**at the Pratt Area 4-H Center**

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ON THE EDGE OF COMMON SENSE

## Medical or Nutritional

One of the most important traits of a good feedlot manager is the ability to assign blame. That is the reason they often employ consulting vets and nutritionists. It keeps them from having to fire regular employees.

Unfortunately it also pits the vets against the nutritionist in their everlasting battle to decide whether a problem is “nutritional” or “medical.”

The feedlot manager sat across the desk from his nutritionist of the month and his Vet du Jour. He spoke, “I’ve been looking at our death loss records and we’ve had a lot of bloats this month.”

“Obviously nutritional,” interjected the vet, who sat back relaxed.

“Now let’s not jump to conclusions,” said Super Nute. “I just read an article in the

Academy of Sciences Journal where they suspect an increase in esophageal thickening in mastodons during the last ice age which could lead to interference with normal rumen gas elimination thus contributing to the increase in bloating. And you know it’s been a cool autumn.”

“What!” said the vet.

Nute continued, “And not only that, you are aware that sudden decreases in atmospheric pressure may increase the gas pressure inside the rumen. I’ve been keeping daily records of the barometric pressure which proves my point,”

The manager wiped his eyes. “In addition we’re losing more weaners than normal to pneumonia this fall.”

“Obviously medical,” said the nutritionist, glad to be out of the hot seat.

“Well, yes,” admitted the vet, “but I’ve not been able to culture any visual bugs out of the lungs so they should be responding to our treatment. But they aren’t which leads me to believe it could be something in the hay or possibly the supplement which is the initial causative agent. Maybe a mineral deficiency or ration imbalance.”

“What!” said the nutritionist.

Merlin, the vet continued, “Plus the original insult may be the result of calves breathing ammonium fertilizer.”

“Well, I’m breathing a lot of fertilizer in this room,” said the manager. “How ‘bout the increasing incidence of brainers?”

“Organism,” said Nute. “Thiamine deficiency,” said the vet.

“Bad eyes?” asked the manager

“Wheat chaff,” said the vet.

“Viral,” said the nutritionist.

“I give up,” gasped the manager. “Oh, I see we had one die from trauma, he was hit by a feed truck.”

“Definitely nutritional,” said the vet.

“Yes, but as I recall,” said Nute, “they ran over him in the sick pen.”

www.baxterblack.com

# Decisions to make when cows come up open

**By Jody G. Holthaus, Meadowlark District Extension Agent, Livestock and Natural Resources**

It’s that time of year when we start seeing cows and heifers with “O” painted on them. The “O” has been drawn on them as they showed OPEN on preg-checking day. While no-one likes to see these cows “go to town,” if a calf is not going to be born and weaned the next year, she must be marketed in order to pay the feed bills. The earlier open cows are identified; the more savings are seen on winter feed costs for the main herd. Open cows don’t always mean money is lost, with a marketing plan that is implemented soon enough, open cows may still provide some profit going into winter.

There are lots of decisions to make; first of all, do you sell the open cows right away, do you intensively feed them for a period of time before you sell, or do you throw them into a fall breeding herd and market to a fall calving operation? The seasonal low for

open/cull/market cow sales occurs in late fall to early winter. Therefore, in order to increase profit potential, try to identify and sell open cows before October or design a feeding plan that will add weight and set them up for sale after February.

Figure out your break-even price. Start by outlining what cows are worth today, what it will cost to feed cows for a few months and what she will weigh when sold. This will give you an idea of where the price needs to be to cover the cost of feeding her and hopefully make a profit.

+Estimated price October 2019 @\$\$.45x1250= \$562.50

+Estimated ADG and feed cost 3 lbs./day for 90 days @ \$1.50/d=270 lbs. and \$135

+\$562.50 + \$135 = \$697.50/1520 lbs. = \$.46/lb.

+ Estimated breakeven price in February 2020 @ 1520 lbs.= \$.46/lb.

According to the Economic Research Service (ERS) Livestock, Dairy and Poultry Outlook for October 2019, the forecasted average price for

the first quarter of 2020 will be \$.54/lb.

Depending on the desired body weight and condition to be added to the cow prior to sale, different feeding regimens can be implemented. Consider cost of feedstuffs and availability of those over the feeding period. Thin cows will need to go on a high-energy ration to begin increase in body condition, external fat, intramuscular fat and tenderness at a more efficient rate. Move them from a forage-based diet to the high energy diet over a period of days to prevent acidosis. Slowly moving up the energy over two to three weeks for higher daily gains.

With cull/market cow generating 15-25% of the revenue in a cow/calf enterprise, it is critical to market them wisely and try to make a profit. The best plan comes from doing the homework and make a plan for your operation. Talk to your vet about a high-powered implant to make gain even better.

## Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

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

**RECEIPTS FOR THE WEEK TOTALED 6,885 CATTLE & 0 HOGS.**

STEERS			
300-400	\$170.00 - \$189.00	59 mix	Hope 938@147.00
400-500	\$168.00 - \$185.00	22 blk	Salina 960@146.00
500-600	\$160.00 - \$178.50	41 mix	Lindsborg 639@145.75
600-700	\$150.00 - \$161.50	49 mix	Marquette 666@145.50
700-800	\$152.00 - \$164.25	9 mix	Beverly 683@144.00
800-900	\$140.00 - \$158.25		
900-1,000	\$138.00 - \$153.25		
HEIFERS			
300-400	\$160.00 - \$174.00	2 blk	New Cambria 350@167.00
400-500	\$150.00 - \$165.00	15 blk	Lindsborg 555@150.50
500-600	\$133.00 - \$150.50	8 blk	Ellsworth 529@149.00
600-700	\$130.00 - \$146.00	2 blk	Randall 448@147.00
700-800	\$130.00 - \$144.25	28 blk	Lindsborg 627@145.00
800-900	\$131.00 - \$141.50	7 blk	Colwich 659@145.00
		14 blk	Woodbine 783@144.25
		39 mix	Hillsboro 688@144.25
		5 mix	Salina 709@144.00
		4 blk	Barnard 615@143.50
		7 mix	Sterling 483@143.00
		14 blk	Ellsworth 631@143.00
		13 blk	Peabody 770@142.50
		6 blk	Enterprise 752@142.50
		10 blk	Allen 543@142.50
		25 mix	Salina 608@142.00
		5 red	Pretty Prairie 745@141.50
		8 blk	Ellsworth 815@141.50
		7 blk	Salina 506@141.00
		24 mix	Hillsboro 803@141.00
		116 mix	Assaria 821@140.50
		13 blk	Lindsborg 733@140.00
		13 mix	Oakhill 832@140.00
		137 mix	Falun 785@139.00
		8 blk	Tampa 765@139.00
		19 mix	Abilene 784@139.00
		41 mix	Marquette 598@138.00
		54 blk	Salina 898@137.25
		17 blk	Agenda 624@137.00
		37 mix	Lindsorg 527@136.50
		29 mix	Abilene 854@136.25
		30 blk	Salina 1012@125.50
TUESDAY, NOVEMBER 5: STEERS			
4 mix	Lincoln 353@189.00		
4 red	Ada 394@188.00		
4 blk	Holyrood 396@187.50		
3 blk	Sylvan Grove 358@186.00		
10 mix	Lincoln 458@185.00		
4 blk	Hutchinson 390@185.00		
2 blk	Kanopolis 413@184.00		
9 blk	Lindsborg 407@184.00		
2 blk	Salina 353@183.00		
10 blk	Hutchinson 462@183.00		
2 blk	Lorraine 343@182.00		
10 blk	Lorraine 444@181.00		
23 blk	Lindsborg 498@178.00		
12 blk	Ellsworth 498@175.50		
10 bwf	Salina 503@175.50		
2 blk	Salina 433@175.00		
2 blk	luka 430@175.00		
12 blk	Salina 505@174.00		
26 blk	Lincoln 513@173.75		

**UPCOMING SALES:** All Tuesday Sales starting at 11:00 AM

**SPECIAL COW SALES:** Tuesday, Nov. 19 • Tuesday, Dec. 17  
**WEANED/VACC. SALE:** Tuesday, December 3

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**BUFFALO SALE:** Saturday, December 7

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**CHRIS HOFFMAN ESTATE COW SALE:** Tuesday, December 10

**IN STOCK TODAY:**

- Heavy Duty Round Bale Feeders
- 6’8” x 24’ GOOSENECK STOCK TRAILER METAL TOP
- 6’8” x 24’ GOOSENECK STOCK TRAILER
- 42’ ROUND BALE DUMP TRAILERS
- HEAVY DUTY FEED BUNKS (Silage & Grain)
- HEAVY DUTY 5000# GRAIN TOTE

## Livestock Commission Co., Inc. Salina, KANSAS

**SALE BARN PHONE: 785-825-0211**

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

**THURSDAY — CATTLE ONLY**

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

**AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD**

For a complete list of cattle for all sales check out our website [www.fandrlive.com](http://www.fandrlive.com)

**CATTLE USA.com** **LIVE CATTLE AUCTIONS**

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

12 blk	Minneapolis	517@173.75	21 char	Ada	435@161.00
4 blk	Natoma	454@173.00	5 blk	Ellinwood	434@161.00
6 red	Ada	498@172.50	36 blk	Lindsborg	482@159.00
30 char	Ada	521@172.50	10 blk	Holyrood	451@158.00
13 blk	Lorraine	524@171.50	30 char	Ada	497@150.50
109 blk	Lindsborg	553@170.00	89 blk	Lindsborg	639@146.00
3 blk	Ellsworth	505@169.50	28 mix	Lincoln	500@145.00
33 blk	Holyrood	525@166.50	10 blk	Salina	513@145.00
7 blk	Natoma	544@165.00	146 blk	Lindsborg	590@144.75
9 char	Salina	587@163.50	50 blk	Lindsborg	581@144.75
84 blk	Lindsborg	623@161.50	107 blk	Lindsborg	534@144.00
84 blk	Lindsborg	619@159.25	8 blk	Natoma	516@143.00
6 blk	Lindsborg	547@159.00	22 mix	Salina	589@143.00
17 blk	Ellinwood	615@156.50	14 blk	Minneapolis	556@142.50
25 blk	Ellsworth	600@156.50	4 blk	McPherson	640@140.50
16 blk	Minneapolis	618@156.00	10 blk	McPherson	588@140.00
14 blk	McPherson	600@155.00	5 mix	Kanopolis	628@140.00
9 char	Ada	603@154.50	11 blk	Ellinwood	545@140.00
30 char	Salina	661@153.25	17 blk	Salina	592@140.00
10 blk	Salina	644@152.00	14 blk	Salina	503@140.00
30 blk	Ellsworth	671@151.25	8 blk	Salina	623@140.00
18 blk	Holyrood	614@150.50	8 blk	Hillsboro	609@139.75
12 blk	Ellinwood	685@149.25	5 blk	Natoma	606@139.50
3 blk	Burrtton	673@149.00	18 blk	Ellsworth	618@139.50
11 char	Minneapolis	728@148.50	6 blk	Salina	524@139.00
99 blk	Lindsborg	677@148.50	13 char	Salina	662@139.00
8 blk	Minneapolis	729@146.00	5 blk	Marquette	602@139.00
10 blk	Brookville	690@139.50	8 char	Luray	601@138.50
HEIFERS					
5 blk	Hutchinson	374@174.00	15 blk	Minneapolis	616@138.50
3 blk	Abilene	388@167.50	15 blk	Brookville	595@137.50
4 blk	Sylvan Grove	428@165.00	35 mix	Minneapolis	567@136.50
6 blk	Natoma	426@164.00	4 blk	Barnard	599@136.00

**EARLY CONSIGNMENTS FOR THURSDAY, NOVEMBER 14:**

50 blk s&h 475-600; 37 s&h 550-600 weaned 30 days fall vacc; 50 blk s&h 500-700 home raised fall vacc; 75 blk s&h 600-700 home raised weaned 30 days; 35 s&h 350-650 weaned 40 days; 35 s&h 450-600; 17 s&h 450-600; 80 blk/bwf s&h 500-700 home raised fall vacc; 45 hrs 950 off grass; 85 s&h 500-600 2 rnd vacc; 35 s&h blk 600-700 home raised 2 rnd vacc weaned 60 days; 20 blk angus s&h 500-600 fall vacc; 10 blk angus s&h 300-400 fall vacc; 40 blk str 650 home raised fall vacc; 10 s&h 500-600; 27 hrs 800 no sort; 60 charX s&h 700-800 long weaned 3 rnd vacc home raised; 300 blk s&h 500-650 2 rnd vacc home raised; 65 blk s&h 500-650 home raised. **PLUS MORE BY SALE TIME.**

**EARLY CONSIGNMENTS FOR TUESDAY, NOVEMBER 19, COW SALE:**

**BULLS:** 30 2 yr old red angus, angus, lim flex, Charolais & sim/angus bulls semen & trich tested, 3 registered angus bulls 18-26 mo semen & trich tested. **BRED HEIFERS:** 3 blk angus heifers AI bred, 10 blk angus hrs bred black Feb calvers all 1 iron, 10 mostly black heifers AI bred to Milbar Hitchcock, Premium or cleaned up Gardiner Angus April calvers, 35 blk/red angus heifers bred to LBW angus bulls start Feb 10 for 70 days, 70 blk heifers bred to sons of Focus & Profit start Feb 7th for 90 days, HFR PAIRS: 22 blk pairs 45 to 60 day old calves fancy set of heifers **COWS/COW PAIRS:** 40 blk angus cows 3-5 yrs bred to Swanson balancer bulls, 5+5 blk pairs 3-5 yrs old, 125 blk&red angus cows 3-5 yrs bred to Swanson or ENS bulls, 150 blk&red angus cows 3-5 yrs old, 200 blk & red angus cows 3-5 yrs bred black, 85 blk & red angus cows 3-5 yrs bred black, 90 blk/bwf cows 3-8 yrs bred angus horned Hereford start Feb 21st, 20 blk cows 3-4 yrs bred black, 150 blk/bwf cows 7-8 yrs bred Leachman sim/angus early spring calvers, 10+10 blk balancer cows 3-5 yrs black calves, 5 blk balancer spring bred cows 3-6 yrs bred black, 20 black angus cows 6-9 yrs bred black spring calvers, 7+7 red angus pairs 4-6 yrs black calves, 8 black bred cows all with 3rd calf bred red angus, 27+27 black angus pairs 4-7 yrs Aug-Sept calves, 3 5 yr old black spring bred cows bred to Mill Creek bulls, 30 mixed cows 3-10 yrs spring calvers, 10 older cows bred Charolais spring calvers, 40 blk cows solid to older bred angus or Hereford Feb-Mar calvers, 16+16 4-5 yr old pairs, 12+12 fall pairs Blk cows 4-7 yrs charX calves, 14+14 blk pairs 4 yrs old calves worked, 20 older blk spring bred cows, 10+10 blk/bwf pairs 5-6 yrs, 20+20 young black pairs big calves. **PLUS MORE BY SALE TIME.**

For Information or estimates, contact:

**Mike Samples, Sale Mgr., Cell Phone 785-826-7884**

**Kyle Elwood, Asst. Sale Mgr., Cell Phone 785-493-2901**

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Agenda, KS

Austin Rathbun  
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Ellsworth, KS

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

