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Two hemp questions open vast K-State research field

By Tad Thompson

In its infancy stage, hemp research at K-State's College of Veterinary Medicine generates far more questions than answers.

The two questions launching such research were:

- Assuming that CBD oil apparently is an effective painkiller for humans, can it also ease pain – and stress – for cattle?

- Given that hemp may have a strong economic future for many commercial industrial uses in Kansas, might hemp byproducts have a role as economical, nutritional cattle feed?

For two hemp research projects, the USDA and U.S. Food & Drug Administration have granted a total of about \$500,000 to the Kansas State vet school.

Grass & Grain met March 4 with those leading this work to learn how future Kansas hemp production may tie into the livestock industry.

Dr. Hans Coetzee leads this team. His credentials are staggering, but for brevity, he is the head of the vet school's Department of Anatomy and Physiology.

Also meeting with G&G was Michael Kleinhenz, DVM, Ph.D., assistant professor, beef production medicine in the vet school's clinical sciences wing.

These men work with other highly qualified researchers to break ground on hemp's mysterious complexities.

Despite the simple nature of the two opening research questions, immediately "We realized we were way over where the ground floor was," Kleinhenz said. Coetzee quietly expressed strong support of the statement.

The only FDA-approved CBD product is called Epidiolex, and this is indicated for treating seizures, Coetzee indicated. "It is important to note that this is different from the over-the-counter CBD products that can be purchased without a prescription from stores like American Shaman and Sacred Leaf in Aggieville, because it is produced in an FDA-approved facility."

If cattle consume can-

nabinoids from Cannabis sativa L., does the trace residue carry through to meat and dairy products? And, oh, by the way, there are U.S. businesses already selling meat and dairy products which they claim are CBD-enriched.

There are no reference books for K-State researchers. Their scientific data is the baseline for knowledge.

This research territory is so virginal that FDA is asking K-State to share its research data.

Kleinhenz is working with 20 young Holstein bulls that were purchased by K-State from a South Dakota dairyman. "They made a career choice," Coetzee grimly joked, to commit their lives to hemp research. Once studies of cannabinoids are complete, the animals' future in meat or dairy is not an option. The cattle will be rendered and chemically disposed.

Coetzee and Kleinhenz indicate that hemp is doubtlessly rich in proteins and other beneficial nutrients that would benefit cattle.

Ironically, bovines don't care for hemp's taste. Kleinhenz has devised three-inch long super capsules to shove down their throats, as a tidy option to grinding hemp into grain and covering the mess with molasses.

The FDA's research contribution to K-State's Department of Anatomy and Physiology largely went to the lab of Steve Ensley, DVM, Ph.D., who is the school's clinical veterinary toxicologist.

And just how sensitive are the high-tech machines in Ensley's lab? He is selective on who he admits. A person wearing clothes with chemical residues can throw off his equipment.

Coetzee said access to phenomenal new toxicological equipment is a huge asset to K-State's work on hemp. And, of course, many other purposes.

Among the complications of "hemp research" is that there are many different varieties of hemp. The category lives under the "cloud," so to speak, of marijuana, which has a tetrahydrocannabinol concentration – THC – of



With a bag of hemp in his lab at K-State's College of Veterinary Medicine is researcher Michael Kleinhenz. Among his most basic discoveries is that cattle don't like the taste of hemp. Beyond crafting a mix of grain, molasses and hemp, he has created large hemp capsules to skirt selective bovine palates.



An FDA grant to the Kansas State College of Veterinary Medicine enabled the purchase of much of the analytical equipment in the lab of Dr. Steve Ensley, who is the school's clinical veterinary toxicologist.



Extending safe social distance during a March interview at the K-State College of Veterinary Medicine were Dr. Hans Coetzee and Dr. Michael Kleinhenz, who are researching how hemp can benefit the Kansas livestock industry.

Photos by Tad Thompson

more than 0.3 percent on a dry weight basis.

Some hemp varieties bear much higher CBD levels than others. "Hot" plant varieties for CBD are generally the size of garden tomato plants, Coetzee said.

The hemp variety best for producing rope and clothing is the lanky, tall "ditch weed."

Such varieties can be cross-pollinated on a windy day, potentially inducing big headaches for

growers with various commercial motivations.

Coetzee said THC levels can vary within one hemp variety. That opens other questions for K-State research. Does the THC level change with plant maturity; or other independent factors?

Regardless of a law-abiding grower's intentions, if the hemp changes in a natural course to qualify as marijuana, the crop must be destroyed. Or the grower

could wind up in jail.

Jayson Griffin, a professor and woody ornamental Extension specialist at K-State's Haysville research center, is currently producing 17 hemp varieties for research purposes.

Coetzee notes that Kansas has a wide range of weather patterns, which lend opportunities for maximizing production of many hemp varieties. Dry conditions in Kansas' northwest would support hemp that doesn't require

much water. This may become a sustainable crop in an area suffering from irrigation resources.

K-State researchers wonder if there is a certain all-in-one hemp variety that can serve many agricultural and industrial purposes.

While cattle feed derived from a processing byproduct is currently a central focus of K-State's work, Coetzee said it's possible that there is a variety that would be economically viable as a nutritious cattle food in its own right.

"For the most part, cattle are excellent, excellent recyclers of plant biomass," Kleinhenz said. "And, if there is a nutrient in there that is cost-effective, someone is going to put it in that ration."

He added, "Farmers being farmers, they're very innovative in what they add to cattle rations. Farmers are ultimate recyclers."

Despite all the questions and current uncertainty, Coetzee and Kleinhenz are convinced that hemp is worth the effort.

"There are some good things here for our state economy that I think can be realized," Coetzee said.

Arriving there is a challenge. But the manual is being written in Manhattan.

New federal hemp rules benefit Kansas growers

By Tad Thompson

New, loosened federal rules have eased operations for commercial hemp growers. In Kansas, this will boost production in an emerging category that needs production facilities to match increased product availability, according to Jason Griffin, the woody ornamental Extension spe-

cialist and Kansas State Extension Leader. A professor with Kansas State University, Griffin works from the Haysville facility south of Wichita.

Domestic hemp production rules eased on Jan. 18 when the USDA Agricultural Marketing Service changed its previous rules from the 2018 Farm Bill.

Griffin said that allows commercial production of hemp to surpass 80 acres. And such production no longer is considered and treated like a research project, in the view of the Kansas Department of Agriculture.

The new rules loosen security requirements for hemp farmers. Griffin said that previously, anyone working in hemp production was required to be fingerprinted and undergo a background check. This broad net, for example, might include a farmer, his wife, his children and his brother. Each background check came with fees.

Now only the farmer must undergo fingerprint records and the background check. The farmer is now responsible to assure workers are compliant with the law.

This eliminated a lot of red tape for farmers, Griffin added.

In his hemp production research representing Kansas State University, Griffin doesn't need to produce more than 80 acres. But he said commercial growers are now going to

be planting much larger fields. Previously, a farmer could have more than one 80-acre hemp planting, but there had to be a license for every planting.

Griffin said Kansas' hemp industry is currently amid a chicken-and-egg dilemma.

Producers need more local outlets. But commercial processing equipment is expensive, so entrepreneurs want more raw supplies before investing in factories. He said he hears rumors of facilities being built, but in February was not aware of actual con-

struction. He added that two fiber production facilities are coming in eastern Colorado. Some states, not including Kansas, are providing financial incentives to build hemp processing facilities.

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Fire destroys Clay Center Locker



Clay Center and the surrounding area lost an anchor business Tuesday night when a fire destroyed the Clay Center Locker Plant, owned by Brad and Lisa Dieckmann. The Clay Center Fire Department was called to the scene at approximately 11:30 p.m. and was later joined by the Clay County Rural Fire Department. Initially battling the blaze from the inside, firefighters were forced to evacuate due to safety concerns. A large explosion later blew out the windows in the front of the building and scattered debris across Highway 15, closing it for more than three hours. None of the businesses near or around the scene were damaged.

The cause of the fire was not determined as of Wednesday morning, and the State Fire Marshal has been called in to investigate.

Photo by Joe Beck

Soy Checkoff research shows strong trust in U.S. farmers

The United Soybean Board released the results of a consumer survey, shedding light on the needs and perceptions of people nationwide about their food supply. Farmers' dependability in regard to nourishing the world has not gone unnoticed. U.S. farmers rank as the most trusted members of the supply chain when it comes to ensuring its safety, taking the top spot in 78% of consumer responses.

"As the organization representing soy — the second largest crop grown on U.S. soil, one of the only widely available complete plant proteins and the most widely used edible oil in the country — we knew it was vital to understand the values of the very people who purchase the products our farmers grow," said Mace Thornton, USB vice president of communications and marketing strategy. "The results not only reinforced

the importance of current sustainability strategies our farmer-leaders put in place, but also revealed some key perceptions and desires among consumers that will help guide the way we communicate and engage on the benefits of sustainable U.S.-grown soy."

Here are some key takeaways:

The vast majority of consumers, 79%, have a very/somewhat positive view of U.S. farmers who grow crops, including soybeans.

Consumers are united in their support for domestic agriculture, with 70% saying it's somewhat/very important to purchase food made with U.S.-grown crops.

Soy is seen as healthy (60%) or neutral (26%) by most consumers, but less than half (44%) are aware that the soybeans used to make their favorite products are grown sustainably.

The good news is that education seems to be valuable, as two-thirds (66%) of consumers felt more positive about soy protein and soybean oil as an ingredient in many food products after reading about the sustainability of soybeans.

With heightened demand for both nutritious and sustainable ingredients, paired with a growing interest in

plant-based proteins, it seems to already be resonating with consumers that soy protein is unique from most other plant-based protein sources. What sets it apart is its high-quality "complete" protein, comparable to the protein found in meat, poultry and seafood. The soy checkoff continues to focus on ensuring that all forms of U.S. protein, whether animal- or plant-based, remain the preferred global choice to meet future demand and nutritional requirements of a growing population.

The way in which food is grown also makes an impact on food-purchasing decisions. The conversation about soy sustainability is an area of opportunity, as consumers are less familiar with it but rank it high in importance. This makes it a key area for the checkoff to educate, with high potential for positive impacts on consumer perceptions.

"This data made clear just how essential it will be to increase awareness that U.S. soybeans are sustainably grown," noted David Iverson, USB Sustainability Target Area coordinator and soybean farmer from South Dako-

ta. "We have successfully reduced greenhouse gas emissions by 38% per metric ton since 1980 but recognize that our contribution cannot stop there. We employ new production practices to continuously advance sustainability efforts, with a goal of growing 70% more food by 2050 to feed our rising popula-

tion, expected to increase by 2 billion people over the next 30 years."

Operating at the intersection of environmental and nutritional wellness, the farmer-leaders of the soy checkoff recognize their responsibility and opportunity to make a positive impact for the future of food.

New federal hemp rules benefit Kansas growers

• Cont. from page 1

"Although there are a ton of uses for hemp, those uses are not entrenched," in Americans' lives. "This whole system needs to come together.

"I tell everybody it's still a young industry. We're trying to get there in baby steps."

There are many commercial uses for hemp. While Griffin's primary focus is on production, all of his work is holistically coordinated with K-State departments that potentially could use hemp to enhance their contribution to society.

Specifically, Griffin works with the K-State veterinary school, engineering, human nutrition and agriculture economics to help guide practical outlets for his product.

The vet school is carefully diagnosing hemp for cattle feed. There are proteins and amino acids in hemp oil that are well-suited to manufacture nutritious dog food.

Hemp fibers have potential for useful new products to engineers.

The aforementioned oils also have positive implications for human nutrition.

"There are so many uses, we're trying to fill in the information gaps."

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Our Daily Bread

By G&G Area Cooks

Rose Edwards, Stillwater, Oklahoma, Wins
Weekly Grass & Grain Contest And Prize
Winner Rose Edwards, Stillwater, Oklahoma:
BLUEBERRY BISCUITS

1 tablespoon melted butter
3 cups flour
1/2 cup sugar
2 teaspoons baking powder
1/2 teaspoon baking soda
1 1/4 teaspoons salt
10 tablespoons butter, cut into little cubes
1 1/2 cups fresh blueberries
1 2/3 cups buttermilk

Set oven 425 degrees. Grease bottom and sides of an 8-inch square pan with the melted butter. Whisk flour, sugar, baking powder, baking soda and salt in large bowl. Add cubed butter and with fingers crumble. Add blueberries and toss with flour mixture. Gently stir in buttermilk until no dry pockets of flour remain. Using spatula transfer dough to prepared pan and spread into even layer and into corners of pan. Cut dough into 9 equal squares. Bake until browned on top and center done, 40-45 minutes.

Darlene Thomas, Delphos:
PIE PLATE PASTRY

1 1/2 cups flour
2 teaspoons sugar
1/2 teaspoon salt
1/2 cup oil
2 teaspoons milk

Sift the flour, sugar and salt into a 9-inch pie plate. Mix oil and milk until creamy. Pour over dry mix. Stir with a fork until blended. Press with fingers and flute edges; pierce with fork. Bake at 400 degrees for 8 to 10 minutes until golden brown.

Kellee George, Shawnee:
**EGG ROLL
IN A BOWL**

1 pound sausage (I prefer Jimmy Dean)
1/4 cup chopped onion
1 bag cole slaw mix
1/2 cup soy sauce
1/2 teaspoon minced garlic
1 teaspoon ginger

Brown sausage and onion together. In a bowl mix soy sauce, garlic and ginger. Mix slaw mix into sausage and onion. Mix around in pan and cook until cooked down. Mix in soy sauce mixture.

Cover with lid and cook about 3 minutes on medium heat. Serve.

Jackie Doud, Topeka:
**CHICKEN CASHEW
CHICKEN**

3- to 4-pound stewing chicken, cooked & cubed
1 cup diced celery
1 cup diced onion
2 cans mushroom soup
3/4 cup chicken broth
1 cup cashew halves
1 small can Chinese noodles

Saute celery and onion in butter. Add soup and broth. Mix and heat through. Mix in chicken and all other ingredients. Place in 9-by-13-inch pan and bake at 350 degrees for 30-40 minutes.

Kimberly Edwards, Stillwater, Oklahoma, shares the next two recipes:
MEATLOAF

1 1/2 pounds ground beef
1/4 cup Italian bread crumbs
1 egg
1/2 package onion soup mix
1/4 cup ketchup

Mix all ingredients and bake in a loaf pan for 1 hour at 350 degrees.

**CHEESECAKE
SQUARES**

15-ounce can sweetened condensed milk
1/2 cup lemon juice
1 tablespoon lemon rind, grated
2/3 cup shortening
1 cup brown sugar
1 3/4 cups flour
1/2 teaspoon soda
1 teaspoon salt
1 1/2 cups quick-cooking rolled oats

Heat oven 375 degrees.

Blend sweetened condensed milk, juice and rind until thick. Mix shortening and brown sugar. Stir flour, soda and salt together then blend into shortening mixture. Blend in rolled oats. Place half of crumb mixture into a greased 9-by-13-inch pan. Press and flatten with hands to cover bottom of pan. Spread with lemon filling. Cover with rest of crumb mixture patting lightly. Bake 25-30 minutes or until lightly browned. Cool cut into bars.

Rose Edwards, Stillwater, Oklahoma:
PORK CHOP DINNER

6 pork chops
Mustard
2 cups dry noodles
1 can cream mushroom soup
1 3/4 cups water
1/2 onion, chopped

Brown pork chops on one side. Spread mustard on browned side. Lay browned side down on 2 cups of dry noodles in a buttered 9-by-13-inch baking pan. Brown onion in drippings in pan. Add soup and water. Heat. Pour over noodles and chops. Cover and bake at 350 degrees for 30 minutes. Uncover and bake another 30 minutes.

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**Baking With
Sugarbuns**
By Michele Carlyon
Green Thumb

I can remember being younger and telling my Grandma that my mom didn't let us watch TV. In reality, that may not have been the full story. Of course, we were like any other kids and were occasionally occupied with the magnificence of the television, but for the most part, we were told to go outside. Growing up in the middle of nowhere we weren't given the luxury of very many young neighbors, so we relied on each other for hours of entertainment and the ever-present sibling rivalries. There was plenty of land and lots of imagination, so there was always something to do. There was the trampoline, dirt, tree houses, forts, bikes, everything country was there and readily available.

As I got older, probably middle school to high school years, I tended to avoid the outdoors, and did what I could to soak in that delightful air conditioning, unless of course we were going on a vacation, then I was always up for an outdoor adventure. Once college hit, road trips or girls' weekends became one of my favorites. New York, California, Colorado, North Carolina, and Florida all made appearances on the list of destinations that were visited. Sights were seen and adventures were had.

Then of course, life hits, college ends and I had to get a real job. That didn't end the trips and it always seemed like the mountains of Colorado or the beaches of Florida would call out, and away I would go. Finding myself once again being mesmerized by the great outdoors, my imagination taking over and my sense of adventure always making me eager for that next trip or more time outside.

COVID has clearly slowed that down, but as Kansas tempts us with little glimpses of some warm weather, I find myself yet again eager to get outside. Eager to adventure and explore, eager to get on the

water and kayak, eager to hike, eager to just be outside soaking it all in. But this year, there is a whole different kind of eagerness for the outdoors lurking for me. I bought a house, sold my mobile home, and bought a house; a real house and I am beyond thrilled for the possibilities that it presents.

The house came complete with flowers and plants planted all around it. A house with birds and squirrels in the yard, a house with an actual fenced-in backyard. All these things that I can't wait to dive into. I am eager for the first time in an exceptionally long time to pull weeds, eager to see what pops out of the soil and to watch things bloom, even excited to be outside in that sometimes-scorching heat to water my new plants and flowers. I am eager to buy some outside lounge chairs and be able to sit outside and listen to the birds or maybe have a firepit to enjoy. So many options and I can't wait to embrace them all.

I know Kansas likes to tease us with the little bits of warm weather and then take it away, but I am so excited for it to finally hit and it will be here before we know it. By the end of it all, I am just hoping that I will be able to come back and tell you that I was blessed with that Carlyon green thumb and that my Instagram feed will be flooded with pictures of all the beauty that comes from that green thumb.

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

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

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Spring Cleaning: Items You Should Clean More Often Than You Do

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

With the “spring” weather we have been experiencing, spring cleaning maybe something you are getting ready to do. No matter how often or how vigorously you clean, you can still have myriad of household germs lurking around your home. Unbeknownst to you, invisible microbes like viruses and bacteria might be making you sick.

For example, flu-causing viruses can remain active for as long as two days; in some cases, specific viruses may spread infections for an extended timeframe, for months. These pesky germs tend to stay active longer on hard surfaces like stainless steel and plastic than on softer surfaces like fabric.

Infection and Immunity shows bacterial infections like Streptococcus pyogenes (strep throat) and Streptococcus pneumonia (pneumonia) could remain active for “extended periods of time.” Resulting in one possible way infections are transmitted from person-to-person.

Where are all those little buggers hanging out? Here, we look at places you don't realize household germs are hiding. But before you get thoroughly creeped out, we'll tell you what you can do to make your home less hospitable to them.

* Kitchen sponge — Yes, the little sponge you use to clean your dishes and countertops harbors all sorts of critters — over 350 different species of bacteria.

According to a 2017 study in Nature Scientific Report, researchers analyzed the microbial makeup of 28 used kitchen sponges and found specifics of disease-causing bacterial like Acinetobacter, Moraxella, and Chryseobacterium, among other pathogens.

How to clean your sponges? Do you need to stop using sponges altogether? Not necessarily, Michigan State University offers the following tips to sanitize your sponge. Avoid using your sponge to clean up meat products. Instead using paper towels and immediately tossing them in the trash.

Also, you can clean your sponge by soaking it in a combination of water and bleach for one minute, running it through the dishwasher on the hottest and longest setting, and microwaving it on high for one minute. Finally, swap out your used sponge for a clean one.

* Door handles and knobs. Cleaning these areas is a simple fix — grab a disinfectant wipe

and run it over the small area you and your family come in contact with the most. When you think about cleaning, it's easy to overlook the tiny details in your home like door handles, knobs, and deadbolts. On any given day, your hands frequently touch these spots, and that presents another opportunity to spread viruses and bacteria around your environment.

* Pet bowls and toys. Unfortunately, your beloved, four-legged friend isn't exempt from passing around germs that could potentially make you sick. In 2011, the National Sanitation Foundation (NSE) ranked pet bowls as number four and pet toys as number seven on the list of the most germ-filled places in your home. Pet products can harbor bacteria like E. coli, Salmonella, and more.

How to clean pet products? To clean your pet's food and water bowls, wash them with warm soap and water each day and disinfect the bowls on a weekly basis by putting them in the dishwasher.

Additionally, since your pet is licking, chewing, and dragging toys around the house, it's a good idea to throw these items in the wash every couple of weeks and use a non-toxic disinfectant to wipe down any toys that aren't washable.

* The vinyl shower curtain. Researchers from the University of Colorado at Boulder found that soap scum that accumulates on your shower curtain may be more than just an unattractive sight. In fact, vinyl shower curtains are a haven for disease-causing microbes like Sphingomonas and Methylobacterium, which can be dangerous for immunocompromised individuals.

How to clean your shower curtain? To properly clean your shower curtain, try washing it in your washing machine on a gentle setting. If that doesn't remove the unwanted soapy build-up, it might be time to buy a new shower curtain.

* Your toothbrush. One British study showed more than 10 million bacteria reside on your toothbrush — that's a higher number of microbes than what's on a toilet seat!

Experts say your toothbrush is exposed to a tainted, aerosolized mist of water every time you flush the toilet, and droplets have been known to land as far away from the toilet as 10 feet. Inadvertently, you're likely brushing your teeth with fecal matter and other pathogens.

But before you stop permanently brushing your teeth, know that most of these germs aren't harmful to you, and the benefits of brushing your teeth outweigh the risks.

How to keep your toothbrush clean? To decrease the prospect of developing bacteria on your toothbrush, close the lid on your toilet when you flush it. Also, rinse your toothbrush and let it air dry; placing it in a container while wet creates a welcoming environment for pathogens.



By Ashleigh Krispense

Raise your hand if you love pineapple upside down cake. Mhmm. That's what I thought (majority rules). I sure enjoy eating it, but I really enjoy it when it comes in the form of a dump cake! This is a recipe originally from The Pioneer Woman, with just a few tweaks of my own. It's super simple and super good. (If you like cherries and pineapple together ... if not, you might want to rewind back to our 3-Ingredient Southern Peach Crock-pot Cobbler!)

PINEAPPLE-CHERRY DUMP CAKE

- 1 box white cake mix
- 1 can cherry pie filling
- 1 can crushed pineapple
- 1 stick butter



Start by reserving 1/2 cup of the pineapple juice. Then, in a 9-by-13-inch pan, stir together the pineapple and cherry pie filling.



Evenly sprinkle on the cake mix and eat the chunkies in the mix (just kidding, not all of them at least — you'll be too sick to enjoy the cake!).

Top the cake mix with pats of butter (yep, use the whole stick!) and then pour over it the remaining pineapple juice.

Bake at 350 degrees for 30-45 minutes or until the top is bubbly and slightly brown. Cool briefly before serving and enjoy!

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



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TUESDAY, APRIL 13, 2021 — 6:00 PM
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Spring agronomy outlook: A time to plant, a time to prosper

Farm supply cooperatives and distributors are positioned to benefit from an active and profitable spring agronomy season driven by high commodity prices, strong input demand and an expected increase in planted acres of soybean, corn and wheat.

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After two strong agronomy seasons in 2020, ag retailers and wholesalers begin the 2021 planting season with favorable industry fundamentals and a crease in planted acres of soybean, corn and wheat.

“Barring additional weather shocks, spring 2021 is setting up to be a very strong agronomy season for crop input distributors,” said Kenneth Scott Zuckerberg, lead grain and farm supply economist with CoBank. “Improving profits for cooperative agronomy departments should help cushion the negative carry caused by an inversion in futures prices.”

Since last August, prices have increased more than 60% for corn and soybeans and nearly 20% for wheat, in response to tight ending stocks and continued strong demand from both export markets and domestic processors. The cyclical turn in grain prices, combined with robust government support payments, drove a surprise recovery in farmer income, leaving growers in a sound financial position heading into spring.

While some producers may have missed out on the early gains in pricing by selling their corn and soybean crops in late September, U.S. net farm income aggregated for crop, dairy and livestock production grew by \$38 billion in 2020. Those gains were driven in large part by historic government farm program payments of \$46 billion.

Farm debt and financial


leverage ratios continue to increase, however, partly offsetting the positive financial picture for growers. Farmer debt-to-equity is projected to reach 16.1% in 2021 compared to 15.8% in 2020 and 12.7% in 2012, a situation that could become problematic should floating rate interest debt begin rising in anticipation of future inflation.

High grain prices, coupled with favorable supply-demand dynamics, will drive higher planted acreage, resulting in more crop input usage during the spring 2021 planting season. In aggregate, USDA expects slightly more than 10 million additional planted acres this year due primarily to prevent plant acres coming back into circulation.

Given the higher acreage forecasts, farmers are expected to purchase more fertilization products, specifically the principal macronutrients (nitrogen, potassium and phosphorous) during the spring planting season. Rising fertilizer prices are also a positive indicator for new sales and retailer margins.

Inventory levels of seed, fertilizer and crop protection products are largely expected to be sufficient for the projected increase in spring planted acres. However, logistical bottlenecks (mainly trucking and rail) remain as risk factors that could potentially create input shortages or delays in certain parts of the country.

Farmer prepayments to farm supply cooperatives increased during the final months of 2020, as growers bought crop inputs in advance to minimize tax liabilities.



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Midwest retailers of Brevant™ Seeds share excitement for 2021 season

It's easy for retailers of Brevant™ seeds to bust out of the winter doldrums thinking about the promising results of last fall's harvest, commodity prices and access to new seed genetics.

"It's been really exciting watching retail's response to the brand since launch," said Mike Lozier, marketing leader for the Brevant seeds brand. "We're proud to offer 31 new products exclusively through retail and help them deliver an even stronger offer to their customers. With this new corn class, we've widened our

performance advantage against the competition and we're earning retail's support with our people and our clear route-to-market strategy."

Jake Fairley, sales agronomist, Country Partners in Gothenburg, Nebraska, said 2021 looks promising. "Our guys are excited," he said. "The full fields we had with Brevant hybrids last year showed that this new brand has some great hybrids."

The new Brevant brand grain corn class is backed by more than 36,000 head-to-head comparisons. Touting an 18.3 bu/A yield

advantage versus the competition, Brevant brand B00M18Q™ is a 100-day hybrid that has an 82.6%-win rate in nearly 2,000 head-to-head comparisons. Other standout hybrids include B06Y18Q™ with a 10.8 bu/A advantage, B14G14AM™ with a 6.7 bu/A advantage and B13A10AM™ with an 11.9 bu/A competitive advantage. The new product lineups are available exclusively through ag retailers across the Midwest and the eastern Corn Belt.

"This year, we've released 20 new grain corn hybrids that boast a 9.4 bu/A yield advantage in 36,633 head-to-head comparisons," said Travis Belt, portfolio and technology leader for the Brevant seeds brand. "We've expanded our En-

list E3 soybean portfolio with 11 new varieties to provide more depth and high-yielding options, with focus on early maturity groups. Our goal is to bring the best products forward for our retailers and their farmer customers. Higher yield will mean even more with improved commodity prices."

Insect Protection and Weed Control Remain Top-of-Mind

Through Corteva Agriscience, Brevant™ seeds selects products from the largest proprietary library of elite corn germplasm in the world. Kyle Anderson, seed specialist, Nutrien Ag Solutions in Sheffield, Illinois, is excited about having newer genetics industrywide this year. In an area with heavy rootworm

pressure, Anderson said, Brevant brand Qrome® products are a good fit to help his customers.

"Rootworm is a worry," Anderson said. "It's more of an issue now than it was in the past, and I am recommending Qrome corn products on more acres this year. Early emergence is the No. 1 thing my customers are looking for. They want a product that will come out of the ground fast and carry over into overall stand count."

Of the 20 new Brevant brand corn products, seven have Qrome tech-

nology to provide above- and below-ground insect protection. The remaining corn products feature either Optimum® AcreMax® insect protection or Optimum AcreMax Leptra® technology. The soybean lineup consists of 11 new Brevant brand Enlist E3® soybeans. With more post-emergence herbicide flexibility, these varieties deliver peace of mind and increased yield potential.

For more information about the new product lineup, visit Brevant.com/products or talk with your local ag retailer.

WASDE estimates strong beef production, high grain prices


USDA's World Agriculture Supply and Demand Estimates (WASDE) show a positive outlook for meat production. For 2021, WASDE puts red meat and poultry production at 107,471 million pounds, up from 2020's estimated 106,530. Specifically, beef is projected at 27,580 million pounds, up slightly from 27,152 million in 2020; pork at 26,680 million up from 28,300; and broilers up 44,780 million from 44,583.

The report also included projections on grains and animal feed. The projected season-average farm price for corn is \$4.30 per bushel, which is unchanged from the February WASDE report. That bushel price is up 20.8% from WASDE's 2019/2020 estimates, likely the result of a surging export market. According to WASDE, though 2021 corn yields are expected to be up 2.7% from 167.5 to 172 bushels per acre, exports are up an estimated 46.2% from 2019/2020.




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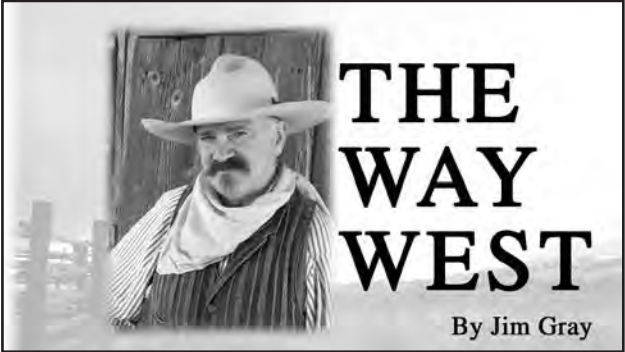



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THE WAY WEST

By Jim Gray

Arrested Action

In the spring of 1864, Lt. George Eayre, in command of a detachment of the First Colorado Cavalry and McClain's Battery of Light Artillery turned east from Colorado's South Platte River. He was searching for the main camp of Cheyenne horse thieves on the plains. Eayre ordered his subordinates to kill Chey-

ennes wherever they were found. In the meantime, two of the leading men of the Cheyenne people were in camp along the Smoky Hill River (near present-day Liebenenthal, Kansas). Lean Bear truly believed that army officials recognized him as a friend. He had received the Presidential Medal of Peace from Abraham Lincoln in 1862. When news of the approaching soldiers reached the camp on May 16, 1864, Lean Bear rode out to meet them. But on first view of the Indians Lt. Eayre deployed his men

for battle and opened fire, killing Lean Bear and Star, his close friend. Cheyenne, Arapaho, Sioux, Kiowa, and Comanche, combined forces to close the main trails across Kansas and Nebraska. Stage coaches and wagon trains were not allowed to venture onto the plains. In response General Samuel Curtis ordered Company H of the Seventh Iowa Cavalry to secure the Fort Riley Military Road from the Smoky Hill Crossing near present-day Kanopolis, Kansas) to Fort Larned. Fort Ellsworth was established at the Smoky Hill Crossing and Fort Zarah was established near the mouth of Walnut Creek on the Arkansas River (east of present-day Great Bend, Kansas). Military supplies were once again moving along the trail. In time wagon trains began to move along the Santa Fe and Oregon Trails. Scattered raids kept the frontier on edge into the summer and fall.

On November 29, 1864. Colonel John M. Chivington led his Colorado Volunteer Cavalry in an early morning attack on a peaceful Cheyenne-Arapaho village along Sand Creek in southeast Colorado. Men of fighting age were away hunting buffalo. Defenseless old men, women and children were slaughtered in the infamous Sand Creek Massacre. In the meantime, General Curtis was assigned to the Department of the Northwest in Minnesota and Dakota Territory. His replacement, Major General Grenville Dodge, took command of the Department of Missouri which had absorbed the old Department of Kansas. His authority extended from the Arkansas River of southern Kansas to Montana's Yellowstone River. In retaliation to the atrocity committed at Sand Creek a combined force of Sioux, Cheyenne, and Arapaho warriors attacked Julesburg, Colorado, just as General Dodge was appointed to command the reorganized department. Raids on stations along the

South Platte Road to Denver were conducted at the same time and continued into February, including a second raid on Julesburg. From Fort Leavenworth Dodge planned a punitive campaign against the defiant plains tribes. In early February the Eleventh and Sixteenth Volunteer Kansas Cavalries were ordered to Fort Kearney, Nebraska. During a brutal winter march the troops were harassed by warriors who frustrated the soldiers by refusing to engage the troopers in a major assault. The warriors abandoned the Oregon Trail leading Dodge to believe he had won the day. But the Indians had just changed the theater of operations to the Santa Fe Trail. Dodge sent Colonel James H. Ford to Fort Larned to lead two companies of the Eleventh Kansas Volunteer Cavalry against the southern bands and drive them into Indian Territory. The campaign was to begin in the spring. However, United States Indian Agent Colonel Jesse Leavenworth had not been consulted before Dodge and Ford took the field. When he learned that Colonel Ford was about to take the field against the southern tribes Colonel Leavenworth informed Ford that he had recently held council with tribal leaders who assured him that they wanted peace. Ford's actions would threaten the success of the

formal treaty that Leavenworth was preparing to introduce to the tribes. General Dodge was not swayed when Ford relayed Leavenworth's comments to headquarters. Dodge reaffirmed that Ford's duty was to punish the tribes conveniently disregarding the innocent people that his own troops had slaughtered. On March 17, 1865, news of a large camp of Comanches, Kiowas, and Apaches on the Cimarron River set Ford in motion. A new military base was located twenty-two miles east of the mouth of the Cimarron on the Arkansas River. Later in the month Ford sent Captain Henry Pierce to begin construction. The newly formed "Peace Commission," a product of Colonel Leavenworth's peace efforts, ordered Ford to confine his military operations to the district north of the Arkansas River. The punitive action was effectively arrested, but Ford's actions had led to the establishment of a new military post on the Santa Fe Trail. Both Dodge and Ford were honored with the naming of Fort Dodge and in 1867 Ford County was established 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.

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TRACT 1
Legal Desc: OUTLOTS 1, 7, & 8 IN NE 1/4 S15, T01, R05
FSA Info: DCP Cropland Acres = 28.32 *Estimated*

- Base Acres *Estimated*
- Wheat - 12.85 Acres, Yield 49 bu.
- Corn - 6.43 Acres, Yield 122 bu.
- Beans - 6.43 Acres, Yield 37 bu.
- **Crop Election Choice** = Beans - ARC, Wheat & Corn - PLC

Property Taxes: \$1,265.46

TRACT 2
Legal Desc: NE 1/4 S14, T01, R05, East of the 6th P.M.
FSA Info: DCP Cropland Acres = 101.29 *Estimated*

- Base Acres *Estimated*
- Wheat - 45.58 Acres, Yield 49 bu.
- Corn - 22.80 Acres, Yield 122 bu.
- Beans - 22.8 Acres, Yield 37 bu.
- **Crop Election Choice** = Beans - ARC, Wheat & Corn - PLC

Property Taxes: \$2,857.60

Property Location: From the corner of Hwy. 148 & 234 (Hanover corner) go 4 1/2 miles North to corner of 148 & 27th Rd. then East 1 mile to Big Bear Rd. Go North on Big Bear Rd. 1 mile. This is the NE corner of tract 1 and the NW corner of tract 2. **Watch for signs.**

Listing Agent's Notes: *Agricultural Producers & Investors ... Tract 1 is an incredible property that is approximately 106 acres with approximately 28 acres in crop production. It appears most of this tract could be converted into crop production. Tract 2 is approximately 159 acres with approximately 101 acres in crop production with more to be had. Both of these farms have extremely good soil types, are highly productive, and have been well cared for. DON'T miss this INCREDIBLE opportunity to add these tracts to your operation or investment portfolio. Contact me with questions you have regarding this exceptional Washington County KS property. Jessica Leis - 785.562.7817*

Terms & Possession: 10% down day of the sale, balance due at closing on or before **May 28, 2021**. Sellers to pay 2020 taxes. Title insurance, escrow & closing costs to be split equally between buyer and seller. Buyer takes possession at closing subject to tenants rights and will obtain 2021 rent. Property to be sold as-is, where-is. All inspections should be made prior to the day of the sale. This is a cash sale and is not subject to financing, have your financing arrangements made prior to auction. **Midwest Land and Home is acting as a Seller's Agent and represents the seller's interest.** All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. Statements made the day of sale take precedence over all other printed materials.

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Groundwater levels fall in central and western Kansas

After three years of small increases, average groundwater levels in central and western Kansas dropped during 2020 as most of the area experienced abnormally dry conditions for much of the year, according to preliminary data compiled by the Kansas Geological Survey.

“It was hot and dry last summer, and water levels pretty much dropped everywhere,” said Brownie Wilson, KGS water-data manager. “Levels didn’t drop as much as in the really dry years of 2011 and 2012, but declines were a step in that direction.”

Water levels in measured wells declined an average of 0.93 feet overall in 2020. In the drought years of 2011 and 2012, average levels across all monitored wells decreased 1.95 and 2.04 feet, respectively. About 90% of the monitored wells are drilled into the High Plains aquifer.

The KGS, based at the University of Kansas, and the Division of Water Resources (DWR) of the Kansas Department of Agriculture measure about 1,400 wells every year to monitor the health of the High Plains aquifer and other aquifers in western and central Kansas. Since 1996, when the state began administering the water-level program, water levels in the monitored wells have declined on average 12 feet.

The High Plains aquifer is a network of water-bearing rock that extends into eight states. In Kansas, the aquifer comprises three components — the Ogallala aquifer, the Great Bend Prairie aquifer and the Equus Beds. Of these, the Ogallala aquifer underlies most of western Kansas and consists mainly of the Ogallala Formation, a geologic unit that formed from sediment eroded off the uplifting Rocky Mountains.

Dry years lead to increased pumping demands, primarily for irrigation, which in turn

typically cause greater declines in water levels. In 2020, much of western Kansas saw only 50% to 75% of normal precipitation. During the growing season of March to September, most of the region received less than 25% of normal precipitation.

“The irrigation season probably started earlier than normal, and for some areas producers couldn’t afford to stop to just maintain adequate soil moisture levels. When you start off that far behind, it can be rough to catch back up,” Wilson said.

The southwest Kansas portion of the Ogallala has suffered the greatest losses since levels started dropping in the 1950s. In the drought years between 2010 and 2014, declines averaged about three feet per year. Since 2015, levels fell less than a foot each year until 2020, which saw a decline of 1.2 feet.

In central Kansas, the Great Bend Prairie aquifer underlies an area encompassing Great Bend, Kinsley, Greensburg and Pratt. Farther east, the Equus Beds extends from just north of Wichita toward McPherson and Hutchinson.

This area typically sees more precipitation than the western part of the state. Because the aquifer is relatively close to the land surface and sandy soils are abundant, some of this precipitation recharges — or makes its way into — the aquifer.

Since 1996, water levels in this area have remained relatively stable.

Most of the wells in the network monitored by the KGS and DWR are within the boundaries of the state’s five Groundwater Management Districts (GMDs), which are organized and governed by area landowners and local water users to address water-resource issues.

In Southwest Kansas GMD 3, average groundwater levels dropped 1.31 feet in 2020. Since 1996, average levels in GMD 3 have declined more than 35 feet. Most of the wells monitored in GMD 3 are drilled into the Ogallala aquifer except in a few areas where they draw from the deeper Dakota aquifer. GMD 3 includes all or part of Grant, Haskell, Gray, Finney, Stanton, Ford, Morton, Stevens, Seward, Hamilton, Kearny and Meade counties.

Western Kansas GMD 1 experienced a drop of 0.59 feet in 2020. Declines there tend to be small but steady, with a total recorded loss of nearly 11 feet since 1996. The only decline over a foot recorded during that time was a 1.46-foot drop in 2002, but only three years had gains — all less than half a foot. GMD 1 includes portions of Wallace, Greeley, Wichita, Scott and Lane counties, where the majority of wells are drilled into the Ogallala aquifer.

Northwest Kansas GMD 4 experienced a drop of

0.75 feet, after three years of small increases. Since 1996, average levels have dropped more than 11 feet. GMD 4 covers Sherman, Thomas, Sheridan and parts of Cheyenne, Rawlins, Decatur, Graham, Wallace, Logan and Gove counties. Groundwater there is pumped from the Ogallala aquifer and shallow alluvial sources associated with streams.

In contrast to the significant declines observed in the western Kansas GMDs, increases and decreases in water levels in Great Bend GMD 5 and Equus Beds GMD 2 in the central part of the state tend to even out over time. Although both districts have localized areas of long-term groundwater declines, GMDs 2 and 5 as a whole have remained relatively stable.

Big Bend GMD 5, centered on the Great Bend Prairie aquifer, experienced a water-level decline of 0.81 feet in 2020 after increases of 1.76 feet in 2019 and 1.22 feet in 2018. The Great Bend Prairie aquifer underlies Stafford and Pratt counties and parts of Barton, Pawnee, Edwards, Kiowa, Reno and Rice counties.

Equus Beds GMD 2, a major source of water for Wichita, Hutchinson and surrounding towns, saw the biggest decline of all the GMDs in 2020, a decrease of 1.80 feet, after increases of 1.38 feet in 2018 and 0.82 feet in 2019.

GMD 2 covers portions of Reno, Sedgwick, Harvey and McPherson counties.

“GMD 2 often fluctuates with periods of large declines and large increases in the water table. Like other areas of Kansas, irrigation is a major use made of water but GMD 2 also has much larger municipal and industrial applications relative to the other GMDs,” Wilson said.

The KGS measured 587 wells in western Kansas, and DWR staff from field offices in Stockton, Garden City and Stafford measured 224, 276 and 341 wells, respectively, in western and central Kansas. Most of the wells, spread over 48 counties, are used for irrigation and

have been measured for decades with landowners’ permission.

Measurements are taken primarily in January when water levels are least likely to fluctuate due to seasonal irrigation. The measurement results, available on the KGS Water Well Levels website, are provisional and subject to revision based on additional analysis.

The Kansas Geological Survey is a nonregulatory research and service division of KU. KGS researchers study and provide information about the state’s geologic resources and hazards, including groundwater, oil and natural gas, rocks and minerals, and earthquakes.



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ANTIQUES, PRIMITIVES, HOUSEHOLD & FURNITURE AUCTION

SATURDAY, MARCH 27, 2021 — 10:00 AM

LOCATION: 744 DeHoff Drive — MANHATTAN, KANSAS 66502

Directions: From Canyon Dr. turn onto Allison Ave, then follow Allison Ave to Dondee Dr, turn right on Dondee Dr and follow to DeHoff Dr, then turn left. Auction will be on your left side of the street. **Lunch.**

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AUCTION

Major Machinery at 12:00 Noon

SATURDAY, APRIL 3, 2021 — 10:30 AM

LOCATION: 71674 608 Avenue, BURCHARD, NEBRASKA

From: Lewiston, NE: Intersection of Hwy 4 & 609 Ave (LEWISTON CORNER) then 2 miles south on 609 Ave to 717 Rd, then 1 mile west to 608 Ave and ½ mile south.



COMBINE * HEADERS

* TRAILER * GRAIN CART

2013 John Deere S670 combine, SN# G201010700438, Hours: 2705.1 engine & 1794.9 separator, Star Fire 3000 globe, Green Star 3 monitor, chopper, Big Top bin extension, 520/85R/42 dual front rubber (70%), 600/65R28 rear rubber (70%); **2010 John Deere 612** corn head, SN# 1H0612 CXTBO740818, 12-row/30", hydraulic deck plates; **2014 John Deere 630F** HydraFlex platform, w/Crary long finger air reel, SN# IH00630FPE0765409, re-conditioned in 2020, w/BBK 30' tandem axle header trailer w/6 bolt wheels; **BBK 30'** tandem axle header trailer, ST225/75R/15 rubber, 6 bolt wheels; **J & M 875** grain cart, 16" unload, rollover tarp, 30.5L/32 10 bolt rubber.

TRACTORS

2002 John Deere 8320 MFWA tractor, SN# 8320P005211 Green Star 3 monitor, Bump Shift, 6153 hrs, 3 Pt w/quick tach hitch, 4 remotes, 10 suitcase weights, rear wheel weights, 380/85R34 front rubber (Poor) & 480/80R46 dual rubber (95%); **1997 John Deere 8300** tractor, SN#P013323, Bump Shift, 7088 hrs, 3 PT w/quick tach hitch, 5 remotes, 10 suitcase weights, rear wheel weights, 420/85R30 front rubber (75%) & 480/80R46 rear rubber (50%); **2000 John Deere 7410** FWA tractor, SN# 7410R035029, Quad Range w/ left hand reverse, 7141 hrs, 3 PT, 3 remotes, 540/1000 PTO, 380/85R28 front rubber (30%) & 480/80R38 rear rubber (New) w/ JD 740 7' bucket hydraulic loader w/Joystick; **1968 John Deere 3020** diesel tractor, SN# 115761, WF, Syncro Range, 13,324 hrs, 3 PT, 2 remotes, weight bracket & 2 slab weights, 16.4/34 rubber (Poor), metal good.

SEMI TRACTORS * HOPPER

TRAILERS * GOOSENECK

* LOW BOY * TRUCKS

2003 Peterbilt Conventional

379 truck w/sleeper, Cat engine, tandem axle, 13 spd, 1,011,563 mi, 285/75R/24.5 rubber; **2000 Freightliner** Conventional Field 120, w/sleeper, rebuilt Detroit Series 60 eng, tandem axle with hyd tag, 10 spd, 821,669 mi, 295/75R/222.5 rubber; **2013 Neville** Built 40' steel hopper trailer, dual manual hoppers, Shur Lok rollover hand tarp, 11R/24.5 rubber; **2006 Timpte** Super hopper 42' aluminum trailer, dual manual hoppers, Shur Lok 4500 series electric rollover tarp, 11R24.5 rubber; **2010 Quality** Trailers gooseneck 8'x20' plank deck tandem axle trailer w/4' beaver tail w/ramps, ST235/80R-16 rubber, 8 bolt wheels; **1986 GMC Brigadier** truck, Cummins diesel, needs radiator, 311,093 mi, air tag, dual tandem axle, 285/75R/24.5 rubber w/New Leader L3020GT belt drive 16' lime box; **1974 Chevrolet C60** truck, V-8 engine, 4x2 spd, 75,160 mi, 16' wood box w/hoist, 900-20 rubber; **1976 Bush Hog** Load Craft Model L-25-R dually tandem axle low boy, 26' deck w/beaver tail, 10' 6" wide; **1972 Luft** Dually tandem axle low boy w/2-1500 gal poly tanks & B & S 208cc gas engine transfer pump; **1990 TransCraft** dual tandem axle deck trailer, 96"x48", 275/80R22.5 rubber; **1960 Chevrolet C65** truck w/2000 gal tank wagon (Doesn't Run, Salvage).

MACHINERY

2013 JD 1770 NT 30"- 24 row planter, bulk fill CCS seed delivery, 500 gal liquid delivery system, new transport rubber, 8 suitcase wts. (Bought New); **2014 JD 2510H** 15 shank 30" NH3 applicator, Raven AccuFlo Super Cooler, added Raven Cooler, 10 suitcase wts; **JD 2100** Soil Management System, 3 PT, 7 shank ripper w/Elk Creek P/T carrier; **Krause Landsman 6100** 28' mulch finisher w/4 bar harrow; H&S Hi Capacity 12 wheel rake; IH 183 3 PT 6 row — 30"

tine cultivator; Big Dog 7' 6" dirt scraper; Land Pride RCM 5515 shredder; Orthman 3 PT 6 row — 30" no till cultivator; JD 980 30' field cultivator w/3 bar harrow; JD F145H 3 PT 3x16 plow; White 508 3 Pt 5x16 plow; Rhino 900 8' 3 PT blade; Parker 2600 gravity wagon w/extension, 5" hyd. auger, 4 whl gear w/12.5L/15 8 bolt rubber; Peck 12-92 PTO auger w/hyd swing hopper; Harvest International T1042 PTO unloading auger; AG System AG-800 tandem axle dry fertilizer spreader; 2 wheel chemigator w/1/2 hp elec motor, 150 gal SS tank; hyd. 3 PT fork lift; JD front end loader bale spear; JD 3 PT 400 rotary hoe; tandem axle trailer w/1000 gal poly tank w/Honda engine (stuck), 11L/15 6 bolt rubber; IH 1250 grinder mixer; JD L-M manure spreader, ground drive; (2) 4 wheel gear 12' box wagons w/hoist, 11L/16 6 bolt rubber; 2 Elk Creek 24' 4 wheel bale feeder wagons, single axle; JD 235 27' disc, salvage; JD 653A row crop head, salvage; Several augers, salvage.

GRAIN VACUUM

Brandt 5000 EX grain vacuum.

SKID LOADER

Daewoo 2060XL diesel skid loader, SN# AH00100, 908 hours, foot controls.

MISCELLANEOUS

Wallenstein mod BX625-G PTO 3 PT wood chipper; small bottle acetylene torch set on cart; JD Star Fire globe; CH 4 gal air compressor; 3 PT quick tach hitch; (2) 1000 gal diesel & fuel tanks w/elec pumps (3) 1000 gal fuel tanks; 2000 gal fuel tank; 2 wheel corral panel cart; Winn Power PTO 30/20 PTCED 30 KW generator on cart; Winn Co 3600 RPM Industrial generator, 8 hp, 4000 watt; 6' portable metal stairway on rollers; 3 Red Child's wagons; B&V pickup insert ball hitch; 3 Pt hitch to ball hitch; hi lift jack; Craftsman 11 & 13 drawer stacked tool chest on rollers; Craftsman ½" air impact wrench; DeWalt 14" chop saw; bolt assortment; misc disc blades; 200 gal saddle tanks; IH & DeLaval cream separator bases; Dempster well pump; TSC liquid 12V pumps; B&S 8.25 hp gas engine w/pump; Craftsman & JD leaf blowers; NECO grain spreader; Pacific 8500 M gas engine generator; stacked oil rack w/2 valves; 6 rolls of barb wire; 75 6' steel T post; 2 Apache creep feeders; misc hand tools and other small items.

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USDA announces funding of the Kansas Great Plains Grassland Initiative

Kansas producers have new funding opportunities to help address woody plant encroachment on targeted rangelands through the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS).

“Transitioning from productive rangeland to woody plant dominance is the greatest threat to rangeland conservation in Kansas,” said Monty R. Breneman, acting state conservationist. “New scientific tools now provide unprecedented opportunities to track woody encroachment and develop strategic approaches to combat it. When combined with landowner expertise, we can defend intact grasslands, reduce vulnerability to future encroachment, and cut long-term maintenance costs.”

Woody plant encroachment puts pressure on working rangelands by decreasing livestock production and increasing wildfire risk as well as harming grassland biodiversity and increasing threat to animal species living in this biome.

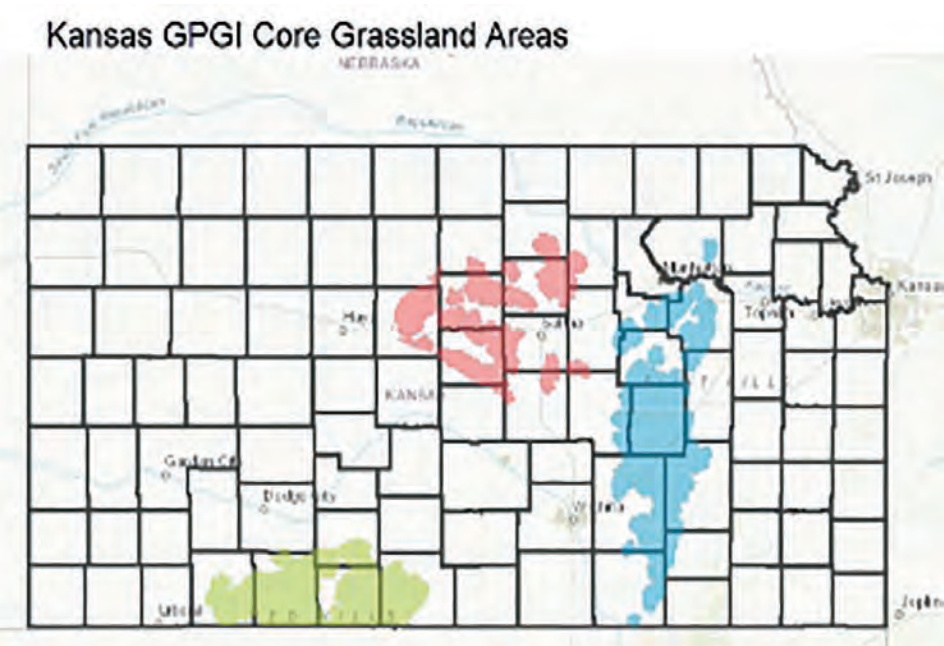
NRCS is adopting a new approach to addressing this widespread threat through the Kansas Great Plains Grassland Initiative (GPGI). The initiative is part of the NRCS Working Lands for Wildlife (WLFW) framework calling to conserve the last remaining iconic grassland regions in the Great Plains biome.

WLFW is NRCS’s premier approach for conserving America’s working lands to benefit people, wildlife, and rural communities. WLFW uses win-win solutions to target voluntary, incentive-based conservation to target voluntary, incentive-based conservation that improves agricultural productivity and wildlife habitat on working lands.

The GPGI initiative focuses on earlier prevention strategies and makes producers in targeted rangelands eligible to receive Environmental Quality Incentives Program (EQIP) funding related to addressing woody plant encroachment. Core grasslands include targeted areas within the Flint Hills, Gypsum Hills, and Smoky Hills regions of Kansas.

Treatment strategies will rely on an integrated pest management conservation system plan to manage woody species encroachment on identified planned land units (PLUs) within the core grassland areas.

The Fiscal Year 2021



application evaluation period cut-off date for Kansas GPGI is Friday, July 2, 2021. Applications submitted prior to the cut-off will be assessed and ranked as soon as the applicant has made treatment decisions in a conservation plan. Based on fund availability, application assessments with a ranking score of 30 points or greater will be pre-approved immediately allowing the applicant to act now and achieve contract approval to begin practice installation without being evaluated against other submitted assessments. Application assessments ranking scores less than 30 points will be batched and funded in ranking order as funding allows.

process will allow applicants with high enough application ranking scores to strike while the iron is hot and immediately enter into EQIP contracts,” said Breneman, Acting State Conservationist. “This will enable interested and qualified applicants to perform the needed conservation treatments as soon as they are ready, willing, and able.”

USDA Service Centers are open for business by phone appointment only, and field work will continue with appropriate social distancing. All Service Center visitors wishing to conduct business are required to call their local Service Center to schedule a phone appointment. More information can be found at [Farmers.gov/coro](https://www.farmers.gov/coro).

navirus offsite link image.

It is important that applicants provide accurate records of ownership to USDA Farm Service Agency (FSA). This FY, all landowners are required to file a CCC-902, Farm Operating Plan, along with adjusted gross income and conservation compliance forms. Application information is available at your local USDA Service Center. More information is also available at [Kansas NRCS](https://www.farmers.gov/coro).

To learn more about GPGI or other technical and financial assistance available through NRCS conservation programs, visit Get Started with NRCS or contact your local USDA Service Center.

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WED, MARCH 24TH • 9am-11am Sharon Springs, KS | 12pm-2pm Cheyenne Wells, CO

FRIDAY, MARCH 26TH • 10AM-11AM • Virtual Info Day - Call for Online Access

TUES, APRIL 6TH • 9am-11am Sharon Springs, KS | 12pm-2pm Cheyenne Wells, CO

Cheyenne Co. Fairgrounds Community Bldg. 425 S 7th W, Cheyenne Wells, CO

Wallace Co. Fairgrounds Community Activities Bldg., 214 W Park St., Sharon Springs, KS

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FARM AUCTION REMINDER

SATURDAY, MARCH 27, 2021 — 10:30 AM

LOCATION: 1918 L Road — SENECA, KANSAS 66538

REAL ESTATE: 3BR, 1BA House & Multiple Outbuildings located on approx. 5-7 Acres.

SENECA REAL ESTATE CO. - Mike Kuckelman Broker; Dale Wilhelm Auctioneer

HOUSEHOLD, VEHICLES, TRACTORS, MACHINERY & LIVESTOCK EQUIPMENT

See last week's Grass & Grain For Info & Listings!

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REAL ESTATE AUCTION

THURSDAY, MARCH 25, 2021 — 1:30 PM

Auction will be held at the Community Center on the South side of the square in JEWELL, KANSAS

Tract I: N ½ NW ¼ 30-5-8 Jewell Co., Kansas. 79 farmland acres with 72 broke acres the balance CRP.

Tract II: S ½ NW ¼ 18-5-8 Jewell Co., Kansas. 80 farmland acres with 78 broke acres.

See last week's Grass & Grain for more info & go to: www.thummelauction.com

Thummel Real Estate & Auction LLC is acting as seller agent. All statements made day of auction take precedence over printed material.

AUSTIN & NICHOLAS PORTER

Auction Conducted By:

THUMMEL REAL ESTATE & AUCTION LLC., 785-738-0067

AUCTION

SATURDAY, APRIL 3, 2021 — 10:00 AM

Due to health concerns, following sells at 2041 Rd. 350, READING, KS (From the ADMIRE TURNPIKE Exchange, go East on Hwy. 56, 3 mi. to Miller Elevator, then North 1 mi. on Rd. W7, then 1/2 mi. West on Rd. 350)

IH 656 Dsl & 460 gas tractors; IH 435 twine baler, shedded; IH 510 grain drill, shedded; IH 35 hay rake; IH 1150 grinder-mixer, needs repair; JD 230 disk, needs repair; Century slide-in 500 gal. sprayer; (3) 4-wheel flatbed wagons; MF 750 combine, 4362 hrs.; MF 540 combine, salvage; Poulan Pro 48 mower; 2000 Lincoln Town car; 1989 GMC 4WD pickup; 1973 Ford F-700 w/16' grain bed; W-W 16' bumper stock trailer; several old heating stoves; good selection deer sheds; vintage platform scales; propane 500 gal. tank; good selection of Household items inc. vintage, glassware, furniture, etc.; assortment of Tools & Farm items.

NOTE: Auction should hold something of interest for almost everyone. Farm, vintage, household, etc. Sure to be surprises. TWO RINGS PART OF THE DAY. Cash or Check Only - NO CARDS!

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Pics & Full Listing: www.wischroppauctions.com

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Grass & Grain Area Auctions and Sales

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

Always great online Equipment auctions — www.purplewave.com

Spring 2021 Gun, Blade & Ammo Online Auction — Ends March 23, 6 PM consisting of over 750 lots of firearms & 1000s rounds of ammo, military arms, gun books & more held at Armsbids.com. Auctioneers: Kull's Old Town Station, Proxibid.com/Kull.

Online Only Bankruptcy Real Estate Auction (Ends April 2, 7 PM) — Sells Absolute, no reserve: 1974 14x70 Clifton 2 bedroom mobile home with appliances & building material (located in Junction City) for Bankruptcy Estate of Lawrence K. & Lisa L. Montgomery held at www.KullAuction.com. Auctioneers: Kull Auction & Real Estate Co., Inc.

Online Auction (beginning to end April 15, 10 AM) — Farm Machinery: Combines, tractors, trailers, truck, semis & more held online at www.gavelroads.com for Gary & Pam Allender retirement. Auctioneers: Gavel Roads Online Auctions.

March 22 — "The Best of Both Worlds" Sale consisting yearling Horned Hereford Bulls, 2-year-old Horned Hereford bulls, fall yearling Angus bulls, 2-year-old Angus bulls, heifer pairs, fall bred heifers, yearling AQHA colts, 2 AQHA riders held at Dwight for Oleen Brothers.

March 23 — Mark your calendars for the Premier Herd Sire offering of the spring held at Eureka for Suhn Cattle Company.

March 25 — Jewell County Real Estate auction in 2 tracts consisting of farmland & broke acres held at Jewell for Austin & Nicholas Porter. Auctioneers: Thummel Real Estate & Auction, LLC.

March 26 — Tractors & payloador, harvesting, trucks, trailers, hay equipment, farm equipment, pickups, livestock equipment, other farm items, shop items, antiques & collectibles, ATV & more held West of Goodland for Gaylene Shank & The Late Dennis Shank. Major items will sell live & online at www.equipmentfacts.com. Auctioneers: Berning Auction, Inc.

March 27 — Collectibles, pottery, bottles, knives, lots of books, fruit jars, glassware, misc. household, tools & more held at Emporia for collectibles of the Late Gail Hancock. Auctioneers: Flint Hills Auction.

March 27 — Farm auction consisting of tractors, field equipment, buggies & box wagons, farm & ranch supplies, household & collectibles held at Haven for Merle & Anna Mae Bontrager. Auctioneers: Morris Yoder Auctions.

March 27 — Real Estate consisting of a 3BR,

1BA house & multiple out-buildings on approx. 5-7 acres. Also selling household, vehicles including 2002 Chevy Silverado 4x4 w/3,450 miles, tractors, machinery & livestock equipment held at Seneca for Wilfred Ronnebaum Estate. Auctioneers: Wilhelm Auction Service; Real Estate by Seneca Real Estate Co., Mike Kuckelman broker & Dale Wilhelm auctioneer.

March 27 — 2000 Buick LeSabre, Native American & artifact items, antiques, miscellaneous, collectibles, guns & swords, household held at Effingham for Bob & Freda Thompson Estate. Auctioneers: Hoffman Auction Service, Jeff Hoffman.

March 27 — Furniture, Whirlpool washer & dryer on stands, Craftsman riding lawn mower, eagle electric air compressor, antiques, primitives, collectibles & miscellaneous held at Portis for Julie Chegwidan. Auctioneers: Wolters Auction & Realty.

March 27 & 28 — Selling March 27: 1972 Chevrolet 20 pickup, 1979 Jeep 4-wheel pickup, AC WC road grader, generators, engines & parts, vintage car parts, antiques & collectibles, IHC stationary engines, corn shellers, John Deere bikes, farm parts, saws, railroad crossing bells & more. Selling March 28: Large assortment shop manuals, collectibles & household including RedWing crock, records, coins, lamp collection, glassware, books & more both days held at Belleville for Jesse Jeardoe. Auctioneers: Thummel Real Estate & Auction, LLC.

March 27 — Tractor, truck, camper, mowers & shop, furniture, appliances & household held at Moundridge for Sharon (Bob) Gehring. Auctioneers: Van Schmidt Auction.

March 27 — Real estate & personal property auction consisting of home with 2040 sq. feet of living space, garage workshop & more all on a 1-acre lot for Edward L. Lance. Also selling autos, mowers, tools, antiques, furniture, collectibles & guns all held at Minneapolis for Edward & the late Vicki Lance. Auctioneers: Coldwell Banker APW Realtors, Baxa Auctions, LLC., Mark Baxa.

March 27 — Spring Consignment Auction held at Holton. Auctioneers: Harris Auction Service.

March 27 — Tractors, truck & trailers, farm machinery, shop tools & miscellaneous, household & more held at Beloit for Kenny Stegmaier Estate. Auctioneers: Gerald Zimmer Auction & Realty Estate.

March 27 — Antiques, primitives, household & furniture held at Manhattan for Harold "Ike" & Bernadine Eichman Estate. Auctioneers: Foundation Realty, Morgan Riat.

March 27 — Annual consignment auction consisting of farm machinery, trucks, trailers, livestock equipment, farm tools & miscellaneous held at Durham for consignments in conjunction with G&R

Implement. Auctioneers: Leppke Realty & Auction, Lyle Leppke, Roger Hiebert.

March 27 — Farm auction including 4 possible rebuildable tractors: 706 International, 460 International, M&C International; 24' Travalong stock trailer with low miles like new, 24' flatbed Travalong trailer like new, 16' enclosed trailer good, 2 comp. overhead feed bins, lots of cattle equipment, 1999 Dodge 4WD 1-ton pickup, saddle collections (some high-back including a Frazier) & more held at Maple Hill for Linda Raine & the late Bill Raine Estate. Auctioneers: Murray Auction & Realty, Steve Murray.

March 27 — Real Estate & personal property including appliances, furniture, household, collectibles, lawn & garden/tools held at Axtell for Norbert Schmitz Estate. Auctioneers: Olmsted Auctions.

March 27 — Farm machinery, skid steer, antique machinery, farm-related items & household goods held Northwest of Randolph for Byarlay Family Trust. Auctioneers: Kretz Auction Service.

March 27 — New Haven Angus Production Sale held at Leavenworth.

March 27 — Davis Prairie Star Show Goat Sale held at Madison.

March 29 (Monday evening) — Real Estate consisting of 5.4 acres m/l with 2 bedroom mobile home and pole barn. Also selling pickup, Ex-Mark mower, panels, household, etc. held West of Osage City for Vicki L. Crosby Estate. Auctioneers: Miller & Midyett Real Estate, Wischropp Auctions.

March 29 — Farm machinery & miscellaneous held Northeast of Abilene for Dan & Audrey McGrath. Auctioneers: Kretz Auction Service.

March 31 — CH White & Sons, LLC Retirement Auction; all items sell, no reserve. Including combine, tractors, skid steer, grain drill & more held at Purplewave.com. Auctioneers: Purple Wave Auction.

March 30 — Horse tack, 1999 Chevy Silverado 2500 pickup, furniture & appliances, collectibles, toys & games, glassware, household held at Topeka for the Estate of the Late Carolyn Kaberline. Auctioneers: Elmer Whitmore & Gary Hallenbeck, Whitmore Estate Liquidators.

March 31 — Greeley County Real Estate consisting of a 50-acre tract of native grassland with farmstead and several buildings, grain bins & pits. Personal property consisting of farm equipment, farm items, shop items & antiques held near Leoti for William &

Marilyn Luebbers. Auctioneers: Berning Auction, Inc. (Real Estate broker Lawrence & Assoc. Realty, Russell Berning, listing agent).

April 1 — Real Estate: Stafford County Irrigated Land (298 ac. m/l) and 4-BR ranch-style farmstead home. Also selling tractor, high loader, skid steer & dirt move, harvest equipment, trucks & trailers, farm equipment & more held at St. John for Robert (Bob) E. Standish Trust. Auctioneers: Carr Auction & Real Estate, Inc.

April 3 — Combine, headers, trailer, grain cart, tractors, semi tractors, hopper trailers, gooseneck, low boy, trucks, machinery, grain vacuum, skid loader & miscellaneous held at Burchard, Nebraska for Jay & Rose Wischmeier. Auctioneers: Jurgens, Henrichs, Hardin, Sommerhalder.

April 3 — Morris County Land Auction consisting of 275 acres m/l located on the edge of the Flint Hills, cross-fenced, well and multiple watering stations, terraces and pond held at Burdick. Sale by order of Riggan Family Trust, Seller. Auctioneers: Riggan and Company Real Estate.

April 3 — Vehicles, tractors, farm machinery, household, vintage, scrap iron held North of Miller Elevator, Reading, KS for Lawrence Parks. Auctioneers: Wischropp Auctions.

April 6 — Selling 160 acres m/l of Native & Mixed Grass Pasture located Northeast of Carbondale held at Carbondale for Vern & Marjorie Robb. Auctioneers: Miller & Midyett Real Estate & Wischropp Auctions.

April 10 — Gravely Commercial Zero Turn mower, Firearms, ammo, tools & much more held at Lawrence. Auctioneers: Elston Auctions.

April 10 — Coin Op machines, music boxes, unusual collectibles including Vogue records, slot machines, windup toys, furniture, dolls, quilts & more held at Salina for Gary Bradford Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

April 10 — Farm machinery, shop tools, hay & household held North of Alta Vista for Marvin (Shorty) Brabb. Auctioneers: Cline Realty & Auction, LLC.

April 10 — Tractors, Farm Equipment, Truck & cars (mostly salvage or parts), salvage & equipment held at Effingham for Janet & the Late Wayne Rygaard. Auctioneers: Hoffman Auction Service, Jeff Hoffman.

April 10 — Real Estate consisting of a 4 bedroom, 3 full bath home on 2.3 acres; insulated and powered shop with overhead door and fire pit. Also selling personal property held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

April 10 — Real Estate & personal property consisting of furniture,

collectibles & household held at Marysville for Darrell & Marjorie Cudney Estate. Auctioneers: Olmsted & Sandstrom.

April 10 — Fink Beef Genetics Spring Bull Sale held at Randolph.

April 11 — Indian collection & guns including arrowheads, spears, pottery, carved beads & more, 200+ lots of coins including a large collection of silver dollars Morgan & Peace held at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

April 13 — 1974.4 acres m/l if Geary County farmland & cropland held at Junction City for Allen R. Kamm Trust. Auctioneers: Midwest Land and Home, Jeff Dankenbring & Mark Uhlik.

April 16 — 1997 Chevy S10 pickup, antiques, collectibles & household including Superior blue porcelain wood burning cook stove, furniture, crocks, cast iron items, guns, costume jewelry & more held at Clay Center for Don & Marilyn Affolter Estates. Auctioneers: Thummel Real Estate & Auction, LLC.

April 17 — Firearms Collection & Hunting Enthusiasts Collectibles. Outstanding one owner collection held at Lawrence. Auctioneers: Elston Auctions.

April 17 — Consignment auction held at Salina. Auctioneers: Wilson Realty & Auction.

April 17 — 266.44 acres m/l of Washington County Land consisting of T1: 28.32 m/l acres cropland; T2: 101.29 m/l acres cropland held at Hanover for Heirs of Donna Lohse. Auctioneers: Midwest Land & Home, Jessica Leis, listing agent; Mark Dankenbring, broker.

April 17 — Household, tools, collectible items, lots of iron & more held at McFarland for Harold Feyh. Auctioneers: Mur-

ray Auction & Realty, Steve Murray.

April 20 — Real estate & personal property auction consisting of a 5BR, 3BA home located close to the K-State campus held at Manhattan. Auctioneers: Crossroads Real Estate & Auction, LLC.

April 20 — Marion County Land consisting of 160 acres m/l of diverse land, 70 ac. tillable, 31 ac. CRP, balance in native pasture, hay meadow & timber. Several building sites, rural water meter, excellent deer & quail habitat held at Hillsboro. Auctioneers: SunGroup Real Estate & Appraisals.

April 20 — Land Auction: 36,558 ac. m/l Eastern Colorado and Western Kansas offered in 28 tracts & combinations consisting of 3,647 ac. m/l irrigated land, 11,705 ac. m/l dry land farm, 13,293 ac. m/l ranch land held at Burlington, Colorado for Rothert Farm & Ranch. Auctioneers: Hall and Hall.

April 24 — Public auction held at Lawrence for Dave & Cheryl Stoffer. Auctioneers: Elston Auctions.

May 1 — Tractor, Building Supplies & much more held at Lawrence for Brad & Stephanie Shelley. Auctioneers: Elston Auctions.

May 1 — Collectible tractors & parts, shop equipment & miscellaneous held at Leonardville for Larry Detmer. Auctioneers: Kretz Auction Service.

May 8 — 75+ Firearms, ammo, reloading, 2 large gun safes, Winchester Collectibles held at Lawrence for Private from Eastern KS. Auctioneers: Elston Auctions.

May 15 — High End Collectibles, tools, household items held at Lawrence. Auctioneers: Elston Auctions.

May 22 — Farm auction held at Eudora. Auctioneers: Elston Auctions.

ATTENTION AUCTIONEERS

*** Due to new printing deadlines, all ads (including auctions) have to be sized by Noon and ads submitted after Noon will not be accepted.**

*** Ad deadline remains at Noon but those received close to deadline may be restricted to an estimated size. It is always recommended to try and submit auctions by the end of Thursday for proofing purposes.**

*** Deadline for the Free Auction Calendar is 11 AM each Thursday. You are welcome to send your listing as soon as you have it and before advertising starts.**

AUCTIONS are a VERY IMPORTANT part of Grass & Grain & this notice is meant to prevent any auction from being excluded due to deadline. We appreciate your loyalty to Grass & Grain!

GREELEY COUNTY REAL ESTATE FARM EQUIPMENT AUCTION

WEDNESDAY, MARCH 31, 2021

TIME: 10:00 AM CT/9:00 AM MT

LOCATION: From LEOTI, KS 11 miles West to Greeley-Wichita county line, 13 miles South to CR DD, 2 miles West, 1/2 mile South

Greeley County Real Estate: Wednesday, March 31, 2021, 12 Noon AUCTION & LAND LOCATION: From Leoti, KS 11 mi West to Greeley-Wichita county line, 13 mi South to CR DD, 2 mi West, 1/2 mi South. Selling on this auction will be a **50-acre tract of native grassland**, on the north side of SE1/4 of 34-20-39, Greeley County, West of the 6th PM in Kansas. This tract of land has a farmstead with a 51'x152' round top building with 100' of concrete floor & 52' of dirt floor for equipment storage (nice). 43'x68' tin shop building, seed cleaning plant with clipper seed cleaner, length grader & gravity table, 1000-bu. leg & pit, grain bins include: (2) 20,000-bushel bins w/pits, (2) 12,000-bushel bins w/pits, (12) 4,000-bushel bins w/pits, (1) 14,000-bushel bin w/pit, small scales & numerous other outbuildings. Lots of storage on this farm. **Taxes:** \$1,313.66 - 2020 taxes paid by the seller. 2021 taxes pro-rated to day of closing.

Terms: 10% down day of sale, with balance due in certified funds, at closing. Closing to be on, or before April 31, 2021. Announcements day of sale take precedence over printed material. Possession at closing.

Evidence of Title: Seller will provide to the buyer Title Insurance in the purchase price amount, with buyer and seller splitting premium cost 50%-50%. **Inspection:** Each individual bidder is responsible for conducting their own independent inspection and due diligence concerning pertinent facts about this property. Neither Lawrence and Assoc. Realty, its agents, or the seller make any warranties, expressed or implied.

WILLIAM & MARILYN LUEBBERS, OWNERS

Broker: Lawrence and Assoc. Realty, 513 Main, Scott City, KS 67871, 620-872-5267 Auctioneer/Listing Agent: Russell Berning, PO Box Q, Leoti, KS 67861, 1-800-466-5202

FARM EQUIPMENT: 1974 JD 4630 tractor, 3 pt., pto, PS, w/ JD loader; 1995 IHC Navistar semi-truck, 10 spd. trans., 430 Detroit motor; 2001 Neville 42' grain trailer w/tarp; Kinze 875-bu. grain cart; Shop built roller packer; Gravity grain wagon; JD running gear w/14' box; Caulkins chisel bar; 3 pt. forklift for tractor. **FARM ITEMS:** 1000 gal. fuel tank w/12 110v pump; 2500 gal. fuel tank; My-D-Handy 6x60' auger, 220v elec. motor; Westfield 6x40' auger, 220v elec. motor; Farm King 10x30' auger w/swing un-load; Mayrath 8x40' auger; My-D-Handy 6x50' auger, pto; JD 4-wheel running gear; Shelbourne MC209900-62 pickup head, ser.# 62198, 10' (not many of these around); pickup fuel tanks; older scrap equipment; scrap iron.

SHOP ITEMS: Herd hopper bait spreader; Flatbed hydro crane; Pump jack; Snap On power washer; Floor jacks; Bolt bins; Tool boxes; Hand tools; Shop lights; Creepers; Creeper stool; Reddy Heater 15,000 btu, kerosene; Lincoln 225-amp welder; Pickup bed tool boxes; Parts washer; Craftsman 12-drawer mechanics tool chest; Welding table; Mega force 60-gal air compressor; Waterloo 8-drawer mechanic's table; hyd. shop press; Shop vac; Other items. **ANTIQUE ITEMS:** 1947 White Truck Model WB14, 6-cyl motor, 4 spd. trans, 13' bed & hoist, non-running, VIN: 354524; Maytag motor; 5 gal. oil cans; Nail kegs; Barn lantern; Camel back trunk; Old secretary.

Check us out on Facebook & at www.berningauction.com

WILLIAM & MARILYN LUEBBERS OWNERS

TERMS: VALID ID required to register. NO EXCEPTIONS! Cash or approved check day of sale. **NO CREDIT CARDS!** Everything sold as is. No warranties expressed or implied. Not responsible for theft or accident. Announcements day of auction take precedence. **NOTICE:** Due to Covid-19, you are responsible for your own SAFETY and HEALTH. The auction company nor the seller will be held responsible. Social guidelines are in place, so please be respectful. We know auctions are a hard place to social distance, so we will have masks & hand sanitizer available. **Enjoy the auction!**

BERNING AUCTION, INC.

812 West M, Leoti, KS 67861, 620-375-4130

FARM & RANCH EQUIPMENT & MORE

AUCTION

SATURDAY, MARCH 27, 2021 — 10:00 AM

Auction held 3/4 mile North of I-70 and Rossville-Dover Interchange (Carlson Road). Parking in the yard - Beware of Traffic!

FARM & RANCH EQUIP., AUCTION EQUIP., SADDLES, HORSE EQUIP., CATTLE EQUIP., TOOLS & MISC. CONSIGNED BY OTHERS

See last week's Grass & Grain for listings & for pics: www.murrayauctionandrealty.com

Bill was a well-known auctioneer, rancher, cowboy for many years. We will be on the tractors and larger items around 12:30 PM. LUNCH: Maple Hill Congregational Church VBS.

SELLERS: WILLIAM L. RAINE TRUST

LINDA S. RAINE, TRUSTEE

Social distancing & masks requested. Please stay home if you are not feeling well.

MURRAY AUCTION & REALTY

Steve Murray, Broker/Auctioneer • 785-556-4354

Bob Murray, Auctioneer

2-DAY AUCTION

SATURDAY, MARCH 27 & SUNDAY, MARCH 28

10:00 AM BOTH DAYS

Auction will be held in the Commercial Building at the Fairgrounds at M & 9th Streets in BELLEVILLE, KS

SATURDAY, MARCH 27, 10 AM PICKUP & GRADER, ENGINES & PARTS

1972 Chevrolet 20 pickup 350 eng. 4 spd runs; 1979 Jeep 4 wheel 1/2 ton pickup 360 eng, quad track auto, runs body rough; AC WC road grader not stuck; Adams No 10 grader not complete; Coleman & Oneon 3500 generators; 400 small block engine; Chev engines complete (454, 400, 350, 327, 283) & MORE!

ANTIQUES, COLLECTIBLES Inc.: IHC stationary engines; JD Mansur 1 row planter; P&O 1 row planter; 2 hole JD No 2 corn sheller w/elevator; John Deere bikes; Peter Wright anvil; JD ice sled; 75+ steel wheels; buggy shafts & tongues; JD & IHC tools; railroad crossing bells & MUCH MORE!

SUNDAY, MARCH 28, 10 AM MANUALS, COLLECTIBLES & HOUSEHOLD

IHC freezer box; 8 gal RW crock; jewelry; 100 Christmas decorations; 45, 78 records; coins; Kirby Sentira vacuum shampooer like new; antique lamp collection; Coke glasses, collectibles & bottles; glassware; Remington pocket watch; 1852 honey jar; 1929 Kansas fishing license; Talmo, Prairie Grove & Norway schools 1900s books; Lighting McQueen chair; wood sewing machine; 50+ old book; 100 magazines comic books; antique bottles.

See last week's Grass & Grain for Listings & for pictures go to www.thummelauction.com

JESSE JEARDOE

For safety, please wear masks. If you do not feel well call in your bids to 785-738-0067.

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

GAVEL ROADS
ONLINE AUCTIONS

THURSDAY, APRIL 15, 2021 * Beginning to End at 10:00 AM

GARY & PAM ALLENDER RETIREMENT FARM MACHINERY & EQUIPMENT AUCTION

Description: Gary & Pam Allender are retiring after 45+ years of farming! Gavel Roads is happy to help with the process. Lots include everything from combines, tractors, trailers, trucks, semis, and much more!

Featured lots include: John Deere 4640 Tractor, Versatile 850 4WD Tractor, Ford Versatile 876 Tractor, Case IH 1680 Axial Flow Combine, Freightliner FL800 Tandem Axle Semi, and Maurer 34' Grain Trailer.

Visit our website www.gavelroads.com for full listing, registration, and bidding!

Contact us at (316) 425-7732 or connect@gavelroads.com for more information.

Marion Co, KS Land Auction

160± acres Diverse Land

70A Tillable • 31A CRP • Balance in Native Pasture, Hay Meadow, & Timber

Several Building Sites • Rural Water Meter

EXCELLENT Deer & Quail Habitat

Tuesday April 20, 2021 6PM

The Scout House - 802 S Birch, Hillsboro

David Sundgren 316.322.5555
Kellie Nesmith 808.295.0214
Doug Sharp 620.382.7609

Midlands Farm Services

SunGroup
Real Estate & Appraisals

www.SunGroupRealEstate.com



Progress

Imagine you were a livestock man in medieval England a thousand years ago. It's early spring. Snow on the ground, mud in the cow lot. You walk the small pasture where the heavy heifers are kept. It's hard to see much with just the moonlight. But you spot one that's down in a swale. She's on her side in the process of calving. One foot is showing.

You check the rest of the cows the best you can and go back to the heifer. No progress. You wait a little longer, then, resigned to your duty, you walk back to the cow lot and set the gates.

Kansas farmers encouraged to enter the 2021 National Wheat Yield Contest

Wheat fields are green-ing up across Kansas — just in time for the 2021 National Wheat Yield Contest to open for grower enrollment. The contest features two primary competition categories: winter wheat and spring wheat, plus two subcategories: dryland and irrigated.

“The National Wheat Yield Contest showcases how management can maximize yield potential while maintaining excellent quality,” said Justin Gilpin, Kansas Wheat CEO. “Kansas growers in the contest not only compete with fellow U.S. wheat farmers but also have the opportunity to learn about

how the latest innovative practices can be put into action on their fields.”

The contest is organized by the National Wheat Foundation (NWF), with new project manager Anne Osborne leading this year's effort. The 2021 National Wheat Yield Contest sponsors include Agri-Maxx, Ardent Mills, BASF, CROPLAN® by WinField United, Grain Craft, John Deere, Miller Milling, Nutrien and WestBred.

“We hope to continue to break our record of eligible entries and for the quality criteria to continue to make the contest more competitive,” said NWF Board president and

On your way back to get the heifer the wind blows down your neck and you shiver. Using a long stick you got the heifer up and drive her into the cow lot. There's some straw scattered behind the windbreak. She finds it and lays down.

You walk to the earthen-roofed shed to collect your tools. You manage to ease up on her and drop a home-made halter over her head and tie her loosely to a post on the windbreak.

There is tepid water in your oaken bucket. After takin' off your tunic you wash yer arms and kneel down behind her.

Taking a three-foot leather thong, you slip a noose around the protruding foot. Following yer father's advice, you next slip a hand inside and search for the other foot. You attach a second thong to it, take a wrap around each hand and begin to pull.

By pulling when she pushes, resting when she rests, you and she finally deliver the calf two hours later.

You rub him down, get him under the flank to suck and get to bed at daybreak.

Sound familiar? However, we have made some progress in a thousand years. We've traded the moonlight for a flashlight, a (grass-hemp) rope for a nylon, wool underwear for goose down, leather shoes for rubber boots, leather thongs for chrome plated O.B. chains and we've traded patience for a ratchet calf puller.

But for the most part much of the process remains the same. Cold feet, bare arms, sweat in your eyes, small heifers and big calves, manual labor and dogged determination.

Progress has mechanized, modernized and computerized much of our world from farming to pharmacy, from coal mining to dentistry, from astronomy to architecture. But those of us who practice the ancient art of birthing livestock could trade places with our counterparts a thousand years ago, or even two thousand years ago, and we'd be interchangeable almost immediately. Sorta like horse-shoers, acupuncturists, dog trainers and herbal medicine salesmen.

Makes ya think, doesn't it?

www.baxterblack.com

culture. Growers are also required to submit a grain sample from each entry to determine the quality of wheat produced under high yield management practices.

A total of 24 national awards will be given, with winners from each category and subcategory recognized during the 2022 Commodity Classic, scheduled for March 10-12, 2022, in New Orleans, Louisiana.

In the 2020 National Wheat Yield Contest, Tyler Ediger from Meade earned the top spot in the dryland winter wheat category with a final yield of 108.43 bushels per acre. This plot also earned Ediger a fifth-place finish in the national contest in the dryland category, based on a 205.01 percent increase over the county average. The variety for this winning entry was WestBred WB4792.

In the irrigated winter wheat category, Ki Gamble from Kiowa was the state winner with an entry of WestBred 4792 that yielded 135.39 bushels per acre.

“Each year, Kansas wheat farmers continue to demonstrate their dedication to good management practices,” Gilpin said. “We are proud to support the recognition of these top producers and encourage growers to enter their

best fields in this year's contest.”

The early registration deadline for this year's winter wheat contest is April 1. The final deadline for entries is May 15, so Kansas farmers still have time to evaluate which fields have the best yield potential for this year's harvest. The wheat contest is conducted online, so growers should register at <https://yieldcontest.wheatfoundation.org/>. All forms and payments will be submitted electronically through this portal.

Learn more about the 2021 National Wheat Yield Contest at <https://yieldcontest.wheatfoundation.org/>.

Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

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

RECEIPTS FOR THE WEEK: 1,921.

STEERS		71 blk	Gypsum	778@128.00
300-400	\$181.00 - \$191.00	79 blk	Gypsum	843@126.25
400-500	\$175.00 - \$185.00	3 blk	Halstead	810@125.00
500-600	\$164.00 - \$174.50	10 blk	Halstead	833@124.50
600-700	\$153.00 - \$163.50	5 blk	Barnard	926@121.00
700-800	\$135.00 - \$145.50			
800-900	\$125.00 - \$135.50			
900-1,000	\$118.00 - \$128.50			
HEIFERS		10 blk	Salina	239@460.00
300-400	\$152.00 - \$162.00	4 blk <td>Salina<td>290@450.00</td></td>	Salina <td>290@450.00</td>	290@450.00
400-500	\$140.00 - \$150.00	1 blk <td>Hutchinson<td>105@435.00</td></td>	Hutchinson <td>105@435.00</td>	105@435.00
500-600	\$126.00 - \$136.00	1 blk <td>Chapman<td>225@425.00</td></td>	Chapman <td>225@425.00</td>	225@425.00
600-700	\$123.00 - \$133.00	1 blk <td>Newton<td>135@425.00</td></td>	Newton <td>135@425.00</td>	135@425.00
700-800	\$120.00 - \$130.00	1 blk <td>Great Bend<td>160@400.00</td></td>	Great Bend <td>160@400.00</td>	160@400.00
800-900	\$115.00 - \$125.00	5 blk <td>Salina<td>223@400.00</td></td>	Salina <td>223@400.00</td>	223@400.00
900-1,000	\$112.00 - \$121.00	1 blk <td>Hutchinson<td>100@335.00</td></td>	Hutchinson <td>100@335.00</td>	100@335.00
		1 blk <td>Salina<td>75@300.00</td></td>	Salina <td>75@300.00</td>	75@300.00

THURSDAY, MARCH 18, 2021					
STEERS					
15 blk	Salina	313@191.00	1 blk	Tulsa, OK	2045@107.50
8 blk	Salina	463@185.00	1 blk	Tulsa, OK	1760@107.00
2 mix	Hillsboro	343@183.00	1 blk	Tulsa, OK	1935@105.50
6 blk	Solomon	563@178.00	1 blk	Tulsa, OK	1600@105.50
29 blk	Hope	530@174.50	1 blk	Tulsa, OK	2370@105.00
11 blk	Hutchinson	527@174.00	1 blk	Tulsa, OK	1815@104.00
2 mix	Hunter	528@168.00	1 blk	Tulsa, OK	1670@104.00
55 blk	Tescott	606@163.50	1 blk	Hutchinson	2235@103.00
25 blk	Hutchinson	634@163.50	1 blk	Hutchinson	1790@102.50
4 wf	Inman	631@159.00	1 blk	Tulsa, OK	2215@102.00
19 red	Tescott	606@158.00	1 blk	Tulsa, OK	1775@101.00
9 blk	Hope	628@157.00	1 blk	Tulsa, OK	1605@101.00
9 mix	Delphos	656@156.00	1 blk	Moundridge	2320@100.50
11 wf	Tulsa, OK	659@146.75	1 blk	Tulsa, OK	1600@100.00
26 blk	Hutchinson	748@145.50	1 blk	Tulsa, OK	1700@99.00
17 mix	Pretty Prairie	792@138.75	1 blk	Tulsa, OK	1980@97.50
30 wf	Tulsa, OK	805@135.50	5 rwf	Salina	1305@70.00
16 mix	Salina	857@134.50	1 red	Tulsa, OK	1155@70.00
11 mix	Pretty Prairie	858@134.00	1 red	McPherson	1220@68.50
13 blk	Hutchinson	825@134.00	1 bwf	Hillsboro	1245@68.00
64 mix	Minneapolis	857@133.75	1 blk	Moundridge	1435@68.00
6 mix	Inman	808@131.50	4 blk	Tulsa, OK	1266@67.00
33 mix	Minneapolis	845@131.00	1 blk	Hillsboro	1215@67.00
62 mix	Enterprise	901@130.25	1 blk	Inman	1135@67.00
60 mix	Valley Center	875@130.00	5 blk	Tulsa, OK	1205@66.50
64 mix	Nevada, MO	883@129.35	1 char	Hillsboro	1370@66.00
45 mix	Geneseo	814@128.85	1 blk	Salina	115@66.00
120 blk	Abilene	945@128.50	1 blk	Brookville	1570@66.00
58 mix	Hope	986@126.50	1 blk	Hillsboro	1195@65.50
		1 ywf	1 ywf	Hillsboro	1355@65.50

HEIFERS			TUESDAY, MARCH 16, 2021		
			BREEDING BULLS		
2 mix	Minneapolis	355@162.00			
7 blk	Hutchinson	505@155.50	1 red	Burdick	@3300.00
3 red	Hillsboro	450@150.00	1 red	Burdick	@2900.00
3 mix	Hillsboro	502@149.00	1 blk	Burdick	@2650.00
3 blk	Delphos	592@141.00	1 blk	Burdick	@2500.00
4 wf	Tulsa, OK	529@141.00	1 blk	Randolph	@2600.00
15 blk	Hutchinson	644@139.25	1 blk	Randolph	@2100.00
8 blk	Nickerson	606@138.00	REPLACEMENT HEIFERS		
10 mix	Pretty Prairie	653@137.50	15 blk	Salina	758@1175.00
10 mix	Salina	607@136.00	15 blk	Clay Center	890@1175.00
10 mix	Salina	652@135.50	54 blk	Lincoln	861@1160.00
7 blk	Solomon	688@135.00	39 blk	Longford	931@1150.00
25 mix	Pretty Prairie	751@134.25	22 blk	Clay Center	840@1150.00
5 wf	Tulsa, OK	637@133.00	10 blk	Beverly	799@1125.00
3 blk	Abilene	717@130.50	60 blk	Lincoln	781@1110.00
14 mix	Pretty Prairie	869@130.00	7 blk	Kingman	786@1110.00
5 mix	Inman	754@130.00	14 blk	Lincoln	776@1110.00
27 blk	Hutchinson	711@130.00	10 bwf	Beverly	834@1100.00
4 mix	Solomon	761@129.75	55 blk	Salina	770@1100.00

UPCOMING SPECIAL SALES 2021:

All Sales are Tuesday at 11 AM

COW SALES: Tuesday, April 20 • Tuesday, May 4

NEW FRONTIER BUCKING BULL SALE: SATURDAY, MARCH 27, 2021

IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- 42' ROUND BALE DUMP TRAILERS
- 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.fandrillive.com

CATTLE USA.com LIVE CATTLE AUCTIONS

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

Time To Start Thinking About CONSIGNING HORSES for the SPRING SPECTACULAR HORSE SALE: MAY 15, 2021. LAST CHANCE to get your Horses Consigned!

8 blk	Randolph	752@1085.00	13 blk	Turon	young, spring@1375.00
			19 blk	Salina	young, spring@1425.00
PAIRS		@2200.00	21 blk	Salina	young, spring@1525.00
28 red	Damar	@2150.00	6 red	Salina	young, spring@1535.00
12 red	Damar	@2000.00	5 red	Salina	young, spring@1450.00
22 blk	Atwood	@1850.00	10 blk	Scandia	young, fall@1435.00
20 blk	Atwood	@1900.00	8 blk	Scandia	young, spring@1475.00
10 red	Hillsboro		10 blk	Scandia	young, fall@1425.00
BRED COWS			5 red	Scandia	young, spring@1485.00
6 blk	Wilsey	young, spring@1410.00	5 red	Leoti	young, sprnig@1500.00
22 blk	Salina	young, spring@1450.00			

EARLY CONSIGNMENTS FOR THURSDAY, MARCH 25, 2021

50 blk strs 700, LTW/1rd; 370 blk S&H 450-600 HR/90 day weaned/vacc/native/grass&tubs; 20 mix S&H 800-900 vacc/LTW/open; 10 blk strs 600-700 vacc/LTW; 25 blk/red S&H 400-600 LTW/2rd/open/HR; 25 hfrs 700-750 HR/LTW/vacc; 45 S&H 500-600 LTW/HR/vacc/green; 60 strs 750-800 HR/weaned/vacc; 33 hfrs 400-700 weaned/HR; 30 S&H blk/bwf 600-700 LTW/vacc/HR/open; 44 S&H 550-650 HR/LTW/2rd

SPECIAL COW SALE: TUESDAY, APRIL 20, 2021

BRED COW/COW PAIRS

- 70 blk&red angus 3-5 yr olds bred swanson balancer bulls
- 50 blk angus cows bred to swanson balancer bull
- 200 blk cows 3-5yrs bred sim/ang Nov 1st-Jan 5th
- 50 blk angus cows bred to swanson balancer bulls
- 150 blk cows 3-5yrs bred sim/ang nov 1st-jan 5th
- 85 blk/red 3-6yr olds bred char/G-G-A
- 10+10 blk pairs 5-older
- 30+30 charx pairs 3-5yrs all worked
- 1 running age pairs blk cows char calves
- 40+40 running age red&blk cows
- 15+15 older pairs worked
- 10 fall bred blk/bwf bred Sunrise & Momentum Sun
- 15+15 2-3 yr olds bred Sunrise & Momentum Sun
- 30 3 in 1 package 3-6 yr olds
- 10 bred 4-8 yr olds
- 5+5 running age

HEIFER PAIRS

- 75+75 blk hfr pairs worked
 - 80+80 pairs
 - 25+25 1st calf hfr pairs sired by momentum sun & Sunrise
- REPLACEMENT HEIFERS
- 20 red angus OCHV pelvic exam

For Information or estimates, contact:

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