



Learning continues on controlling invasive grass

By Lucas Shivers

An invasive grass known as 'old world bluestem' is often found in native Kansas grasslands, conservation reserve program (CRP) acres and pastures used for cattle grazing. Recent studies show new ways to help control and support management.

"We have found out a few things about old world bluestem on a couple different fronts with characteristics and control measures on how to reduce them in pastures," said Keith Harmony, a range research scientist with K-State Research and Extension, who works with forages to complement native rangelands and extend grazing seasons of beef production systems.



A near solid stand of Caucasian OWB and Russian olive trees that has taken over a hillside in what was once a native shortgrass dominated pasture.



A mature Caucasian old world bluestem plant that has invaded a predominantly blue grama and buffalograss area of a pasture.

Background

Harmony's background with old world bluestem dates back more than two decades.

"I first saw the grass when I was in grad school at Iowa State in a CRP mix," Harmony said. "I clipped some samples, and I keyed it out to find that it was called old world bluestem."

After earning his doctorate in agronomy from Iowa State University in 1999, Harmony came to Kansas to support the Kansas State Agricultural Research Center at Hays.

"Right after my degree and I got the job at Hays, I saw old world bluestem growing all around the research station," Harmony said. "It seemed out of place, and it was increasing over time. I talked with folks who said that old world bluestem needed some control."

Initially introduced to stabilize the soil decades ago, the plant is now known to reduce the growth of other grasses that are more nutritious and palatable for livestock. Particularly in drier regions, he noted that old world bluestem negatively affects plant biodiversity, insects and wildlife populations.

"They change plant populations in areas they invade and all levels of wildlife populations, from insects and rodents to birds," Harmony said.

"They have a real effect that continues down the food chain."

Characteristics

Old world bluestem is known for its typically pale color with a yellowish-green tint. The seed heads can be seen from a distance due to their pinkish or purplish tint.

There are two types of old world bluestem, yellow and Caucasian. Yellow old world bluestem, or King Ranch bluestem, will have from three to six branches on the seed head. Caucasian old world bluestem has a more branched seed head, with branches throughout.

Both are extremely persistent plants growing well under dry and arid conditions. These plants also are prolific seed producers.

They have seed banks beneath them that can result in plants years after herbicide control treatment. This non-toxic plant can be grazed by livestock, but it is not the most nutritious forage when mature, compared to other grasses.

History

Old world bluestem grasses were introduced to the region in the 1920s as alternatives to forage and conservation.

"The grasses were propagated in the 1950s and '60s for use in low rainfall areas because they pull moisture from dry soils," Harmony said. "Back in the 1980s and '90s, they were the main grasses in southern CRP plantings. They conserved a lot of soil, but the seed has escaped in the native areas."

Twenty years ago, Harmony said most producers weren't aware of old world bluestem, but within five years most are doing something to address it or have heard about it.

"They've seen it increase at a rate fast enough that they're concerned," Harmony said. "Producers know the threat and danger of it."

Treatment

Notoriously hard to treat, control measures often include herbicides known as glyphosate or imazapyr treatments.

"With individual plants or small patches, dig the plant up to get rid of the seed source if it's feasible," Harmony said.

"With larger patches, we can look at the chemical spot treatments."

One specific method involves treating the area with one to two pounds per acre of glyphosate early in the plant's life when it has around four or five leaves. Then, follow up with another application of one to two pounds per acre of glyphosate eight weeks later or once the plant begins early heading.

Another method involves a one-time application of two to three pounds per acre once the plant begins early heading.

The chemical imazapyr can be used in a similar way, with a quarter-pound to a half-pound per acre early when the plant has four to five leaves. Repeat eight weeks later using a quarter-pound application.

Many desirable native grasses, like big bluestem, indiangrass, little bluestem, and sideoats grama are tolerant of imazapyr at the rates listed, while glyphosate will injure or kill most all vegetation.

"With large areas dominated by it, producers may need to manage the whole pasture with complete renovation to start over or manage it as an old world bluestem area," Harmony said. "It all depends on the level of infestation."

Seed Research

Harmony said it's been a question for a long time about how long the old world bluestem seeds lasted in the soil banks.

Harmony cautioned that often the area has a seed bank underneath, and there is a possibility that old world bluestem will reemerge from seed a while after being treated. This means there is a need to perhaps reapply herbicide over time to control possible new seed growth.

"I did a research project about how to treat old world bluestem with herbicides and it helped us better understand the

seed bank," Harmony said.

With an onsite project in Ellsworth County, the team saw that the number of seedlings each year were greatly reduced with



A patch of Caucasian OWB that has invaded a mixed-grass pasture near a ditch and fence line. Notice the bleached out stems of the OWB patch compared to the surrounding vegetation during autumn.

treatments.

"By the third year, sprouting rates were really small. We were able to say that by the time three years comes, the majority of the seed bank has been depleted," Harmony said. "By and large, in three years it has run its course with environmental conditions good for germination in the first place. This helped to confirm what we've seen earlier in a prior study."

Additional Studies

Recent studies also explored the conditions of the old world bluestem known as allelopathy, that limits neighboring plant growth.

"Allelopathy happens when one plant will produce natural chemicals to try to keep anything else from growing around it," Harmony said. "These natural allelopathic chemicals inhibit the growth of already-established vegetation by changing the

mycorrhizae population, a class of fungus that forms close associations with plant roots to help with uptake of water and nutrients."

Either in its roots or above ground vegetation, old world bluestem produces these allelopathic compounds that inhibit growth of other bluestems and grasses that are desirable.

"After three years, we saw an overseeding of native species have excellent establishment; showing that after three years of control all of the allelopathic effects were gone," Harmony said. "It's promising that these chemicals seemed short-lived and didn't impact the seeded native grasses as much."

Burning Options

In research around summer burning projects, 38% reduction can be found in old world bluestem.

"It's something else that has come along in

studies," Harmony said. "There's lots of work with burning at various stages and timing, with results giving a whole range of control that depends on the heat produced to damage the plant crown."

Herbicides and August burns seem to be the best current combination for control.

Prevention

Keeping old world bluestem out of the area helps other plants and seedlings to grow in the ecosystem.

"Do anything you can to prevent seed sources from coming onto your property through bales or equipment and implements," Harmony said.

A possible point of contamination is feeding hay. Harmony warned against feeding hay with old world bluestem. Hay from ditches or southern states have a higher likelihood of having old world bluestem as well.

The beauty of a Kansas sunrise



A cloud bank frames the sunrise at this grain elevator south of Salina.

Photo by Ken Sullivan



Warm Reminders

Kim Baldwin, McPherson County farmer

January generally means implementing warmer socks, warmer drinks and warmer meals on our farm. The days require additional layers of work clothes while we load our stored grain into trucks headed to feed yards, mills or ethanol plants. Breakfast at our table is now enjoyed with the addition of warm mugs of hot cocoa before the kids have to bundle up to catch their bus for school. Meals are planned to intentionally utilize the oven to warm the kitchen while also making food that will warm bellies.

It's no secret I'm not a fan of winter. The colder and darker days do not make me favor this season

in the slightest. In fact, if I had a choice, I'd spend my winter days as far south as possible.

The extra layers, constant chill and seemingly dreary days do not bode well with me. They never have, and I suspect they never will. Perhaps it's because I was a beach and desert dweller in my childhood. Perhaps it's the many memories from the early days of my marriage of cold, newborn calves being brought inside the house to get warmed up and healthy. Perhaps it's the idea that my children can't enjoy recess outside due to the wind chill. Whatever the reason, winter will always rank last for me.

Yes, the chill of winter has set in. And with that,

I'm constantly on the lookout for reminders to help me adjust my attitude and warm my spirit during this time of the year.

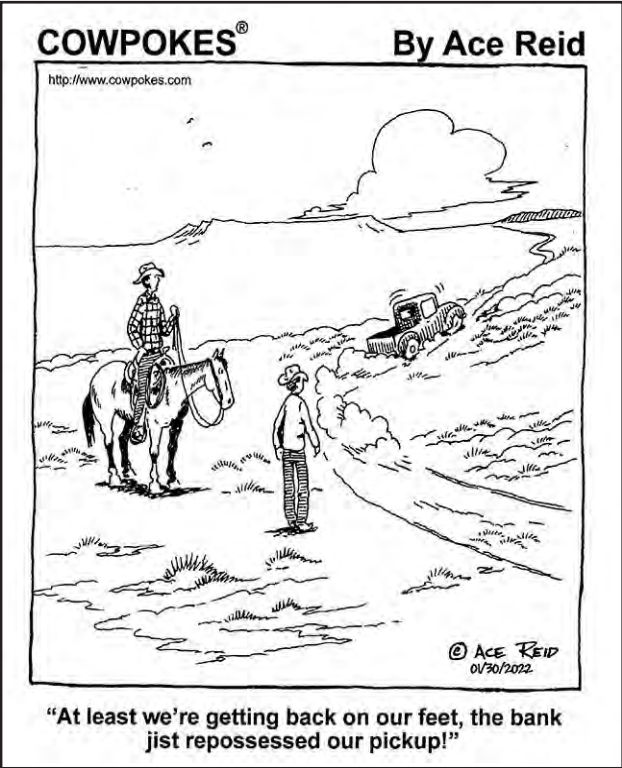
During my daily walk to check the mail, I look forward to opening the box to discover a new catalog highlighting seeds and gardening essentials. It's a reminder that spring planting is near, and I have the opportunity to plan for a future harvest of home-grown goodies during these cold days.

The beautifully made quilts and blankets I have been gifted over time have now been brought out of storage and added to the backs of our sitting chairs or spread over beds. All too often these hand-made treasures seem too heavy or too hot during the rest of the year, but now are a perfect addition. These items not only offer warmth while I read in the evenings or snuggle in at night; they also warm my heart as I remember those who made these precious gifts.

Since the winter's cold pushes my kids and husband into the house sooner in the evenings, I have the opportunity to enjoy more of their company. Whether it's to play a game together, facilitate a science experiment or crafting session, or simply sitting together to enjoy a movie, I know once the days get longer and warmer this time will become less frequent. Having my little family together is something I cherish during the cold, dark winter months.

Yes, even in the depths of winter, there are reminders of warmth all around. You just have to recognize them when you experience them.

"Insight" is a weekly column published by Kansas Farm Bureau, the state's largest farm organization whose mission is to strengthen agriculture and the lives of Kansans through advocacy, education and service.



I have been down in the back for a while now. It has been bothering me for two to three years now and I finally decided to try to do something about it last spring. Then this fall it got worse and I decided to get even more serious about trying to fix it. I know that is entirely too long to put up with pain, but my guess is I am more like many of you than not. It is easier to deal with it and just move on than it is to find the time to shut down and go to the doctor. Then, heaven forbid, they want you to get some kind of treatment that might mean some down time. Who has time to be hurt? I don't, and that is the problem.

Actually, it is a bigger problem for Jennifer than it is for me. When I am down, she is the one who picks up the slack. Did I mention she is the one with the full-time town job that pays for our insurance? Again, tell me I am alone in this; I bet I am not. That is my long-winded way of saying that Jennifer has shouldered a very unfair portion of the workload this lambing season. Oh, I try to keep things moving and running during the day around here and I am getting it done.

The biggest sacrifice she has made is that she does most of the night and early morning checks. We have found if I rest up a bit at night, I can usually get more done during the day. There is no worse feeling than sitting in the house waiting on Jennifer to get back in from the ewe checks. Believe me when I say I feel guilty about not being able to take my turn.

Sunday Jennifer was not feeling well, and I went out to check the ewes. Sure enough, after several mornings of no action, there was a ewe who had a lamb. No big deal, all I had to do was to catch the lamb and the ewe would follow me up to the lambing barn. Normally, that is what would happen; Sunday, not so much. I grabbed the lamb and limped my way to the gate. At the gate I turned around, expecting the ewe to be right behind me. Nope.

In fact, I did not see the ewe anywhere. All I saw were the rest of the ewes looking at me wondering if I was going to feed them early this morning. I took the lamb back to the barn it was born in, and the ewe warily made her

way back to the lamb. At this point my back was starting to hurt and get tighter. I picked the lamb up and kept it out for the ewe to see. Slowly we made our way to the gate. I eased through the gate and the ewe had two feet out of the pen and two feet still in. Suddenly she decided to go back to the barn and make sure that was her lamb. I gave her several new names at this point.

A new plan was devised and that was to try to drive her out of the pen. This plan did not work very well and at this point my back was getting really tight. Normally I am like molasses in January anyway but at that moment icebergs move faster than I was. I would get her up to the gate and she would duck past me and back to the shed were she had given birth, never once paying attention to the bawling lamb in the alley. I was at my wits' end.

That was when I saw the flashlight shining at the top of the alley. The cavalry had arrived. Jennifer realized that I had been gone long enough that something must be amiss. I was both relieved and embarrassed to have her come to my rescue. Oh, over the years I have grown accustomed to Jennifer being better with animals than I am, so her rescuing me was nothing new, but this is one that I should have gotten by myself.

With Jennifer now in control we easily got the ewe out in the alley with her lamb and then back to the lambing barn. Once at the barn I collapsed into the seat of our side-by-side, nearly done in by something that should not have been a big deal. Being injured isn't any fun and being injured during our busy time is even worse. That was when Jennifer asked me what I would do without her help.

Don't get me wrong, this is something I have pondered a lot in the last twenty-six years. Each time the same answer becomes crystal clear to me. I am not sure what I would do without my wife, but I am really sure I don't want to find out. On the other side, I hope Jennifer doesn't spend too much time thinking about it because I am fairly sure the answer won't work out in my favor. Again, I am very sure I am not alone in this either.



By Donna Sullivan

Last week, in an act of utter desperation, I called a family meeting. The members of my brood who live nearby showed up and took seats around the table, looking somewhat befuddled and wondering what calamity had precipitated this gathering.

"Okay," I began. "I don't know what's going on with you all, but it has to stop."

They looked at each other in confusion.

"What?" asked my oldest son.

"Yeah," echoed his brother. "We haven't done anything."

"That's the problem!" I thundered. "I have a column to write and here you are acting all... all... NORMAL! You need to cut it out!"

I looked at my daughters-in-law, who were sitting there looking a little sheepish.

"Is this your doing?" I inquired, moving in close and raising an eyebrow in what I hoped was an intimidating fashion. "Did you somehow, after all these years manage to civilize these two?" Neither of them volunteered any valuable information. Clearly, this was an exercise in futility.

Then, in walked my two grandsons.

ARC/PLC decision date is March 15

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

This is your friendly reminder of the March 15th deadline (don't wait until the last minute – signatures may take time) for making your annual election between Agricultural Risk Coverage (ARC) and Price Loss Coverage (PLC). Things have changed since the last election, and it's time to make a decision once again on the program of choice to best fit your operation.

Some important points to 'recap' the programs. First, the 2022 election will apply to the 2022 harvested crops. Second, that marketing year for fall crops is September 1, 2022 through August 31, 2023 (the wheat marketing year is June 1, 2022 to May 31, 2023). In short, your decision is going to be made using prices that may/may not be similar to what we see today.

To summarize what to expect out of enrollment in one of these programs, think in terms of how prices/yields may vary during the marketing year. For example, if commodity prices remain above reference prices and county yields are average or above (a great scenario, actually), no PLC or ARC payments

would be seen. If commodity prices remain high but yields are below average (county level yields), no PLC payments will be made, but ARC County payments might. If yields stay average or above, but prices drop below the reference price: PLC payments will be made, but ARC-CO payment aren't likely – unless prices are very low. If yields are below average at the county level and prices fall below references prices as well, PLC will pay and ARC-CO payments will be made as well (though they may not be as large as PLC).

While what you choose is based on a different market than in the past, the

same selection principals remain: if you want primarily protection against falling prices, PLC is a good option. If you want to protect against revenue losses (price and county level yield factors together), ARC-CO might be your preference. Analysis by KSU Ag Economists to help in your decision making process can be found at: <https://www.agmanager.info/crop-insurance/risk-management-strategies/arc-or-plc-question> with commentary to help explain the ins and outs of each program and links to price projections and a decision making spreadsheet tool as well.

Amending Japan's safeguard threshold crucial for U.S. beef

The U.S. Meat Export Federation recently commended the Office of the U.S. Trade Representative on the agency's consultations with Japan aimed at adjusting the country's safeguard trigger levels for imports of U.S. beef.

In 2021, Japan's imports of U.S. beef exceeded the safeguard threshold (242,000 metric tons) on March 17, approaching the end of the Japanese fiscal year (March 31). This triggered a higher tariff rate of 38.5% (up from 25.8%) on U.S. beef muscle cuts, which was in effect for 30 days. After this 30-day period passed, the tariff rate for U.S. beef declined to 25%, as provided in the Japan-U.S. Trade Agreement. But for beef suppliers that are members of the Comprehensive and Progressive Agreement for Trans-Pacific Partnership, the 25% tariff rate went into effect April 1.



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Sen. Roger Marshall sat down with former U.S. Secretary of Agriculture Sonny Perdue for the first episode of *Ag Talk with Doc*.

Sen. Marshall launches *Ag Talk with Doc*

U.S. Senator Roger Marshall, M.D. has launched a monthly video series titled *Ag Talk with Doc*, in which he sits down with various leaders in agriculture for discussions on the latest news affecting America's farmers, ranchers, and producers. For the first episode, Marshall sat down with former U.S. Secretary of Agriculture Sonny Perdue at the American Farm Bureau Convention. The two discussed inflation, fertilizer prices, innovation, conservation, the next Farm Bill, and more. You can find *Ag Talk with Doc* on YouTube.

Flint Hills Discovery Center Foundation announces 2022 Friend of the Flint Hills recipient

Bruce Snead will be recognized as the 2022 Friend of the Flint Hills by the Flint Hills Discovery Center (FHDC) Foundation at their annual spring event on Saturday, April 9. Snead has been an integral part of the evolution of the FHDC from its initial development and opening in 2012 through the establishment of the Foundation.

The FHDC Foundation has given the "Friend of the Flint Hills" award to an individual, couple, non-government organization or public institution each spring since 2012. The award honors significant time, effort and resources devoted to the cause of conserving the

Flint Hills of Kansas and northern Oklahoma.

As a Manhattan city commissioner and mayor, Snead provided leadership during the initial development of the FHDC concept. Snead has served as president of the FHDC Foundation since its creation in 2012, leading initiatives in support of the mission of the FHDC.

"I cannot think of a more deserving individual for this honor than Bruce Snead," Susan Adams, Flint Hills Discovery Center director, said. "Bruce has led the Foundation for over a decade. His leadership has propelled our mission forward to preserve the amazing ecological

and cultural riches of the Flint Hills region."

To learn more about the Friend of the Flint Hills April 9th event, please contact Foundation director Lesley White at fhdcfoundation1@gmail.com or 785-748-1275.

The FHDC Foundation functions to advance the mission and work of the Flint Hills Discovery Center through dynamic and vibrant development programs which identify, cultivate, solicit and express appreciation to donors of the Foundation. The Foundation seeks capital and programming, along with deferred and endowed gifts in support of the Flint Hills Discovery Center.

Governor requests a federal disaster declaration for December 15 storms

Governor Laura Kelly sent a request to President Joe Biden through the Federal Emergency Management Agency asking for a major presidential declaration for the Public Assistance Program because of damage resulting from severe storms with extreme high winds on Dec. 15, 2021.

In the request, Kelly said the storm system generated wind gusts ranging from 60 to 100 mph, causing widespread damage. The high winds and dry conditions also led to wildfires that burned more than 160,000 acres and resulted in the deaths of two people. Kelly's letter said the weather event was of an extremely rare nature, citing information from the Topeka office of the National Weather Service that registered 90 mph winds at 4,000 feet, which was stronger

than any winds recorded at that level since 1955.

Joint preliminary damaged estimates placed the total damages for all involved counties in excess of \$15 million. Kelly's request is for federal funding to help restore damaged public utilities, roads and bridges.

"Severe storm damages

can be bad enough," said Kelly, "but to add to that the losses caused by wildfires creates a heavy financial burden on our Kansas counties. I am requesting this disaster declaration to help our counties repair the damages caused by these storms and wildfires and get things back to normal for our citizens."



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Our Daily Bread

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

Susan Schrick, Hiawatha, Wins This Week's Grass & Grain Recipe Contest

Winner Susan Schrick, Hiawatha:
PIZZA TOTS

48 tater tots, frozen
16 tablespoons mozzarella cheese, finely shredded
48 mini pepperonis
3 tablespoons pizza sauce

Preheat oven to 425 degrees. Grease a mini muffin pan and place three tater tots in each cup. Bake for 10 minutes (this will partially cook the tots and get them warmed up and ready for the next step). After 10 minutes remove the muffin pan from the oven and use a tamper to press the tater tots down into each cup. This will create a tater tot cup. Fill the tater tots with 1/4 teaspoon pasta sauce each, mozzarella cheese and mini pepperonis. Place the tater tots back in the oven and cook for another 15 minutes. Remove the pizza tots from the oven and let cool for 5 minutes before removing them from the muffin pan. Don't rush; if you let them cool a little they should hold together for the perfect pizza tot bite!

Linda Whiteman, Mayetta:

MUSHROOM POTATO STROGANOFF

10-ounce package frozen mixed vegetables
1 pound hamburger
3 1/4 cups hot water
1 package Stroganoff Hamburger Helper
4-ounce can mushrooms
1 small can mushroom soup
Thaw vegetables. Brown hamburger and drain. In a saucepan, stir hot water, potatoes and sauce mix (from Hamburger Helper), soup and mushrooms. Heat to boiling, stirring constantly. Reduce heat, cover and simmer for 15 minutes. Stir in vegetables and cook 15 minutes longer.

Kathy Hogue of Topeka/Alma, says, "Spring calving requires easy to prepare recipes to warm you up. This hearty winter stew is sure to please. Sending wellness wishes to everyone."

ITALIAN BEAN STEW

2 garlic cloves, chopped
1/4 cup extra virgin olive oil
14 ounces Italian stewed tomatoes
14 ounces reduced-sodium chicken broth
(2) 14-ounce cans cannellini beans
1/2 pound baked ham, cubed
1/4 teaspoon black pepper
6-ounce bag baby spinach
Loaf of baguette bread
Additional olive oil
Rinse and drain beans. Cook garlic in large heavy

pan with olive oil until golden. Chop up tomatoes and add with juice to pot. Stir in broth, beans, ham and pepper. Bring to boil, then reduce heat and simmer uncovered 5 minutes. Add spinach and cook until wilted. Slice bread and place on a cookie sheet. Drizzle with olive oil and broil until golden. Serve with stew.

Rose Edwards, Stillwater, Oklahoma: BREAKFAST BREAD CASSEROLE

1 pound bacon, cooked & chopped
8 eggs
2 cups half & half
1 teaspoon salt
1/2 teaspoon pepper
1/2 pound Cheddar cheese, grated
2 loaves sliced Hawaiian sweet bread, cut in 1-inch cubes

Grease a 9-by-13-inch pan. Whisk eggs, half & half, salt and pepper in a large bowl. Add cheese and bread to the mixture. Fold in cooked and chopped bacon. Pour into pan and refrigerate overnight. Preheat oven to 350 degrees. Bake uncovered for 45-60 minutes or until puffed and golden brown.

Jackie Doud, Topeka: CHICKEN CASSEROLE

3 chicken breasts, cooked & cut up
1 can cream mushroom soup
1 cup chopped celery
2 teaspoons chopped onions
1/2 cup slivered almonds
1/4 cup bread crumbs
1/2 teaspoon salt
1/4 teaspoon pepper
3/4 cup Miracle Whip
Mix everything except the bread crumbs together. Pour into a casserole dish. Top with bread crumbs. Bake at 350 degrees for 45 minutes.

Millie Conger, Tecumseh:

CHEESY CHICKEN

4 boneless chicken breasts
1 can evaporated milk
1 can cream of chicken soup
1 cup shredded Swiss cheese
Butter a 9-by-13-inch pan. Place breasts on bottom. Pour can of milk over the chicken. Mix soup with a little milk, 2 or 3

tablespoons and pour over chicken. Spread cheese over top of chicken. Cover with foil and bake at 350 degrees for about 1 hour. Check after 45 minutes.

Kimberly Edwards, Stillwater, Oklahoma: RAISIN NUT COOKIES

1 cup raisins
1 cup water
1 cup shortening
1 cup sugar
2 eggs
1 teaspoon vanilla
2 cups flour
3/4 teaspoon baking soda
1 teaspoon salt
1/4 cup nuts
1 1/2 cups quick oats

Cook raisins and water together until just 5 tablespoons of liquid remaining. Drain and reserve liquid. Mix shortening, sugar and eggs together. Stir in cooked raisins, liquid and vanilla. Stir dry ingredients into all. Mix well. Drop by teaspoonfuls onto lightly greased cookie sheet. Bake at 350 degrees for 10-12 minutes.

Kellee George, Shawnee:

CROCK-POT CHICKEN

1 chicken, cooked, boned & chopped
1 pound Velveeta cheese, cubed
1 bag tortilla chips
1 can cream mushroom soup
1 can cream chicken soup
1 can ro-tel tomatoes with chiles
2 soup cans milk
Spray slow-cooker. Combine soups, milk and ro-tel. Layer in the cooker half of the chicken, soups and crushed chips. Top with cubed cheese. Repeat layers to use all ingredients. Cover and cook 3-4 hours on low.

Rose Edwards, Stillwater, Oklahoma:

MEATLOAF

2 pounds ground beef
1 package Stove Top dressing mix
1 cup water
2 eggs
1/2 cup barbecue sauce
Mix beef, stuffing mix, water and eggs; form into loaf. Cover with barbecue sauce. Bake 375 degrees for 1 hour.

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Baking With Sugarbuns

By Michele Carlyon
We Really Love Lucy!

About seven or so years ago, I was working one night, but I was privy to a little secret; my mom, brother, and sister-in-law had made a drive to get two German Shorthair puppies. One for my brother's family and the other to surprise my dad with. They made a pit stop on the way to my parents' house and stopped to show me my new "sister" and "nephew." We are that family that considers our pets family and these two fell right into that role.

I still remember seeing the video of the two puppies being nudged through the dog door and my dad being less than excited to see that there were two, especially when he realized one was his. We had recently lost my brothers German Shorthair mix and Mike was officially moved out, but my parents' house was still the daily babysitting house of "Piddles," our beloved Beagle. There were some not-pleasant words muttered, but it did not take long for my dad to inform us that we could not help in naming her, she was his, and she became Lucy, her brother became Moose.

The two puppies did doggie daycare at my parents' house for what seemed like ages. They destroyed everything in their sight; trim boards, table legs, couches and they loved to eat my dad's recliner. They ate it enough times that we learned there was an insurance offered from the furniture store to cover their unruly behavior; my parents got their money's worth.

Moose and Lucy finally started to grow up and my dad continued to get more attached. He longed for the day where he could let her off the leash and she would just walk with him. As her designated walking buddy, I longed for the day she would stop trying to pull my arm out of the socket and stop trying to eat other dogs. As the years went by our sweet Lucy started to gray around the face; my dad still gladly tells anyone that will listen that he and Lucy both have grayed because they live with my mom, and then he gets a good chuckle as people tend to belly-laugh at that one.

A few months ago, we started to notice that Lucy was having an issue with her back paw, to the point where it was like a hand grabbing something and she could not relax it back out to flat. After multiple laser treatments to try to calm the area, our veterinarian referred her on to another veterinarian in Abilene. Lucy was quick to let him know that she did not appreciate him touching her foot and after a slight sedation, she came out casted to try to get that foot back into a normal position without having to do a major surgery.

About a month later, the other back leg was giving her issues; little did I know, that was part of the reason she had been referred in the first place. Another trip back to Abilene and our sweet girl was looking at an intense surgery to repair a blown-out knee. Sixteen staples, a plate, screws, lots of swelling, bruising and a night in the hospital and we were able to go pick her up. Lucy gave us one of her smiles, it was a drugged-up smile, but a smile from Lucy is always a wonderful thing.

About a week later, Lucy is resting comfortably at home with her dad, anxiously waiting for the day where she can go back upstairs, do trash runs with dad, be off the leash again, run wild and see her brother again. A lot of times when I tell people about our Lucy experience, they look at me like I am crazy, but when you love Lucy as much as we do, there is not a thing in this world we would not do for her to ensure she lives the best life possible. We really love Lucy.

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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K-State Food Safety Expert Addresses Hazards In The Home Kitchen

MANHATTAN – Kansas State University food scientist Karen Blakeslee believes that knowledge inspires confidence. So, she says, knowing where the potential pitfalls are in the home kitchen can go a long ways toward keeping the family's food safe.

“When you eat at a restaurant, you want to feel confident that they are serving you safe food,” Blakeslee said, “and you want to do the same thing at home.”

She said food safety hazards often fall into three categories: physical, chemical and biological.

Physical
“When you store your food in your cabinets, refrigerator or freezer, make sure the package that you're storing food in is appropriate for the type of storage,” Blakeslee said.

Many shelf stable foods – pasta and flour among them – come in flexible plastic or paper packages, which are more susceptible to breaking or tearing. “It's a good idea to transfer those types of foods into another container, such as glass jars or something that will seal well,” Blakeslee said. “Using sturdy containers can help reduce problems with insects invading these foods. If flour is seldom used or you want to extend its storage time, freeze it for later use.”

Freezer foods should be stored in glass or freezer-safe plastic containers that hold up to very cold temperatures. Even foods that will be in the refrigerator for a period of time should be in sturdy packages to prevent breaking when those foods are shifted around.

“Outside of storage, if you see a package or glass that is broken, clean it up well with a vacuum cleaner and broom,” Blakeslee said.

“You don't want to leave little pieces that can get into other foods.”

Blakeslee also suggests checking to make sure handles are tight on pots and pans. “You don't want those handles to fall off, especially if you're handling a hot pan of food.”

Chemical
Kitchen chemicals, such as dish soaps, dishwasher detergent and other cleaning supplies should be kept in an area well away from food. “Generally, underneath your sink is a good place,” Blakeslee said.

“Keep those products separate from your food. If a package containing those cleaners would break, it could spill on your food and you may not know it.”

“Be sure to use cookware and utensils that are designated for food use. Some metals, such as pewter, zinc, copper and some types of pottery are not food safe. Some foods that come in contact with these types of cookware can allow the chemical to leach into the food.”

Biological
Biological food hazards include yeast, mold and microorganisms such as Listeria, E. coli and Salmonella. Check for damaged packages, which can encourage the growth of bacteria. Listeria can grow in refrigerated conditions, Blakeslee said.

“If a canned food is dented, it can compromise the seal on that can,” she said. “And if bacteria is present, it can grow under room temperature conditions.”

Blakeslee added that if foods spill in the refrigerator, clean them up right away. And, she adds, “periodically clean the fruit, vegetable and meat drawers; not just once a year. Keeping those storage areas clean can go a long way toward having safe food to

eat.”

Another hazard not always considered is food allergens. If someone in the house is known to have a particular allergy, it's best to keep any food containing that allergen far away from the food that the individual might eat, according to Blakeslee.

“It takes planning to store foods in an area where they won't affect other foods,” she said.

When shopping, read package labels to know which foods might contain certain allergens.

Blakeslee encourages consumers to pay attention to food safety recall notices, often reported by the U.S. Food and Drug Administration and the U.S. Department of Agriculture. “If you have food involved in a recall, return it to the store for a refund or throw it away,” she said. “Do not eat the recalled food.”

Blakeslee, who also is coordinator of K-State's Rapid Response Center for food science, publishes a monthly newsletter, called You Asked It!, in which she addresses consumer's food safety questions and related topics.

More food safety information also is available from K-State Research and Extension, or from local Extension offices in Kansas.

Links used in this story: Food safety recalls in the United States, <https://www.foodsafety.gov/recalls-and-outbreaks>

Rapid Response Center for food science (Kansas State University), <https://www.rrc.k-state.edu>

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

K-State food safety news, <https://www.ksre.k-state.edu/foodsafety/news.html>

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



Putting It Off

By Lou Ann Thomas

When it comes to procrastination, I am a pro. I can put off just about anything, and if it involves doctors, tests or anything medical, I can also demonstrate a deep capacity for denial.

Whether it's a toothache, an iffy knee or noticing that I become winded putting on my shoes, I will do my best to convince myself that if left alone, it will get better on its own. And I continue to do this even though there has been little evidence of this happening in my life. Instead, that which I ignore does indeed worsen.

I put off my recent heart valve replacement for as long as possible. I was hoping to avoid it completely. Then it became apparent that a new valve was necessary for me to continue enjoying being above ground. So, I did it. It turned out beautifully and I feel better than I have in several years.

After that success story you'd think I'd learn and stop putting off health fixes. But I have a stubborn streak

arms over our head, or rise from a sitting position without making old people's noises.

For instance, I've known I needed my left shoulder replaced for over 15 years. It causes non-stop pain and a growing limitation in movement. And over the years, having to depend more on my right arm, it too now needs a shoulder replacement. And having not done myself any favors by putting the replacements off, there are concerns about whether there is enough bone left to successfully implant the new mechanics. The surgeon believes it can be done, but stresses there is no time to waste.

So, please, don't be like me and practice procrastination until you're a pro. I'm fortunate that my current health challenges can be fixed. But I share my story with you, to urge you, if you have a health issue, take care of it. Don't put it off.

Procrastination may mean you'll have something to do tomorrow, but make sure you do what you need to today so can fully enjoy tomorrow!

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Are Two-Piece Lids Really Necessary? (Answer: YES!)

By Megan Dougherty, Riley County Extension Agent, Nutrition, Health and Food Safety

Home food preservation research continues to recommend and support the two-piece lid system, even though one-piece, screw-on lids are available ... does it really make that much difference? It does! Commercial food canners fill containers to the top, then a device removes the air from the jar before the lid is quickly attached. Home canners don't have those vacuum-sealing machines. What we do have is the two-piece lid, which works well if users follow research-based guidelines. This self-sealing system consists of a flat metal lid held in place by a metal screw band during processing. A trough around the edge of the lid holds a rubber-like, colored gasket. While the jars are being processed, the lid gasket softens and flows slightly to cover the jar-sealing surface, yet allows air to escape from the jar. The gasket then forms an airtight seal as the jar cools.

To ensure safe home canned foods, follow these important steps:

* Buy only the quantity of lids you will use in a year.

* Carefully follow the manufacturer's directions for preparing lids to make

sure you get a good seal.

* Check all metal lids carefully. Don't use old, dented or deformed lids or lids with gaps or other defects in the sealing gasket.

* Do not re-use lids from previously canned foods

In home canning, one-piece lids allow air to be trapped within the sealed

jar. This can permit bacteria to thrive and spoilage to occur, and that spoilage can make you ill and even lead to death. So why take the chance? Safely use a two-piece lid!

Source: University of Missouri Extension, GH1452

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by Kirk Sours



Long Riders

mer range 25 miles to the west to check yearlings on grass, I was a bit puzzled about the long canvas duster. Soon enough, I was clued in as he walked around my stall and said, "Hey Kirk, look at this." He pulled his duster open to reveal a 36-inch cavalry saber hung from his waist. I blurted out, "What the

Bobby was riding a nice little two-and-a-half-year-old dun filly he'd been working with. She was coming along nicely and,

We both beheld the
floundering sight, as the

That filly stood like a statue, nose just above water level, cinch still fastened, as Bobby floundered around in two feet of water trying to keep his head above the water line. His canvas duster had soaked up enough water to fill a five-gallon Phillips 66 bucket, and each boot held another gallon. Hat drenched, wild rag bedraggled, he couldn't get his feet under him at all. The boss and I could not contain our laughter, and as Bobby spluttered and splashed, rolling in the water like a crocodile in a death roll with an anaconda, I dismounted, waded through the roiling waves and approached

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

A cost-return budget sheet can help with management decisions as well. For example, some farmers are wondering if corn will pay off this year or

- Per acre basis – Some costs are the same for every acre and determined by the total cost divided by the affected acres. Crop insurance, fuel, and repair cost will likely be the same

- **Capital Recovery** – One of the hardest costs to determine is the depreciation and interest of the machine and asset costs. It is also one area that can be a much higher cost in some operations and another important point of comparison to the average. Your accountant or KFMA

Many farmers are questioning "Are these input prices going to be worth it?" or "Is the price of corn

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

According to *Drovers*, the U.S. Senate Agricultural Committee asked economists to provide an objective analysis of the Cattle Price Discovery and Transparency Act of 2021 prior to deliberations on the bill.

“There is no statistically significant relationship between negotiated cash trade volume and either fed cattle prices or beef marketing margins,” the economists said. “In short, our results suggest AMAs (alternative marketing arrangements) do not allow beef packers to increase beef margins and lower cattle prices.”

Drovers reports that the authors, John D. Anderson, James L. Mitchell, and Andrew M. McKenzie, said their findings are consistent with previous research and noted that “if transactions are reasonably representative of the overall market, even a relatively small handful of transactions can effectively discover prices.”

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Southeast Kansas Soil Health Conference slated for February 8 in McCune

K-State Research and Extension, along with Great Plains Regeneration, will host the Southeast Kansas Soil Health Conference: Building Soil Health for Profit on Tuesday, February 8th from 8:30 a.m. to 3:00 p.m. at the McCune Community Center - 410 5th St. McCune. This collaborative event will focus on farming methods to build soil health for a profitable operation, often through increasing ground cover and reducing inputs.

This in-person event will feature local farmer Mac Kincaid from Jasper, Missouri who integrates soil

health practices including cover crops, no-till, and cattle grazing throughout his production of corn, wheat, and soybeans. K-State Cropping Systems Agronomist Dr. Gretchen Sassenrath will present on “Managing Soils to Improve Production and Profit.” A farmer-led panel discussion focusing on local implementation of profitable soil health practices will be led by local farmer Jeffery Murphy. NRCS will provide soil health demonstrations highlighting changes in soil structure and tilth with conservation management and cover crops.

NCGA expresses concern that proposed Waters of the U.S. rule could extend federal regulatory control of farmland

The National Corn Growers Association cautioned EPA about moving forward with a rule that could give the federal government sweeping regulatory power over America's farmlands.

The testimony from Iowa farmer and NCGA president Chris Edgington comes as EPA considers a proposed rule

revising the definition of “Waters of the United States,” under the Clean Water Act. The proposed rule would give the federal government leeway to assert jurisdiction over features that are remote from and carry only minor volumes of water to downstream navigable waters.

“The Clean Water Act information, says MU Extension agricultural business and policy specialist Mary Sobba.

“Short-Term Operating Plan for Farms and Ranches” (MU Extension publication M202) gives guidelines for operation of the farm for two weeks to six months.

“Locating key information can be stressful and

simply does not allow the agencies to insert themselves into local and farmer land-use decisions in the manner that has been proposed,” Edgington said. “There is a limit under the Clean Water Act to the direct federal control over land-use decisions and policies. Such Clean Water Act policy properly re-

time-consuming,” says Sobba. “This plan will help reduce stress and save time.”

The free guide, which is available as a fillable, printable PDF, breaks down key information into categories – general, livestock, crop, horticulture, woodlands/timber, equipment, etc. Sobba recommends a yearly re-

spects the roles of each of the principal players in this system: the private landowner, citizen stakeholders, local government, state government, and the federal government.”

These reasonable limits give farmers greater certainty when making critical decisions to ensure they can successfully view and update of information.

Sobba and MU Extension county engagement specialists Joni Harper, Catherine Neuner and Kyle Whitaker wrote the guide. They also worked with a team at the University of Minnesota to incorporate the content into AgPlan, a free online tool to create customized

ly and sustainably produced and market crops, Edgington noted.

Edgington expressed support for EPA's proposal to maintain the decades-old exclusion for prior converted cropland. However, he said he was disappointed the agency is not proposing to carry forward the Navigable Water Protection Rule's

definition of prior converted cropland, which was designed to improve clarity and consistency regarding the implementation of this exclusion.

The proposed rule was published in the Federal Register in December. The public comment period is now open and will close on February 7, 2022.

MU Extension publication, website guide farm families during short-term absences

A new University of Missouri Extension publication and related online tool can guide farmers through the difficult task of keeping the farm running when the owner or key decision-maker cannot.

When someone becomes ill or incapacitated, family members often struggle with finding key

information, says MU Extension agricultural business and policy specialist Mary Sobba.

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business plans. The AgPlan website lets users store their password-protected data and share it with selected individuals.

People can use the guide, the website or both. Some people may choose to start with a paper copy to gather the data then enter it into the website to share with

other family members, Sobba says.

Sobba reminds users that the plan does not take the place of legal and professional advice.

Download “Short-Term Operating Plan for Farms and Ranches” at extension.missouri.edu/m202.

The AgPlan online tool is at AgPlan.umn.edu.

New variety will help farmers increase sorghum yields

Scientists with the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet (SMIL) have developed a sorghum variety they say will provide natural resistance to pathogens and pests that have crippled the crop in humid, lowland areas of western Ethiopia.

Their research is reported in the Jan. 9 issue of *The Plant Cell*, a journal of the American Society of Plant Biologists.

Timothy Dalton, director of SMIL – based at Kansas State University – said the researchers’ work will “serve the broader sorghum development community and is a flagship global good, public characteristic of the U.S. land grant mission.”

The K-State lab led by Dalton funded work in Ethiopia and West Africa to map genes and explore more than 2,000 pieces of germplasm in numerous field trials spanning sev-

eral years.

“The new variety, called Merera, has multiple benefits, including resistance to pathogens and birds, and it yields better than current varieties that Ethiopian farmers have,” said Tesfaye Mengiste, a professor of botany and plant pathology at Purdue University, and the principal investigator for the research.

Mengiste said Merera has shown resistance to Anthracnose, a devastating fungal disease that attacks all parts of the plant – leaves, stalk and head – leaving almost nothing to be used for food (sorghum's primary use in Africa), biofuels or animal feed (the primary use of sorghum in the United States).

“With these improved traits and yield potential, it can mean a better livelihood for (farmers),” Mengiste said.

A newly discovered gene, named Anthracnose Resistance Gene1, or

ARG1, is unique, according to Mengiste.

“Although some natural resistance to fungal disease was known in sorghum, genes that confer widespread resistance have not been identified,” he said. “It is remarkable that a single gene leads to resistance across a broad spectrum of fungi and multiple strains of the *Anthraco* fungus.”

Mengiste cited recent results with Merera that indicate up to a 43% increase in sorghum yields, which has led to increased income for smallholder farmers.

In 2013, the U.S. Agency for International Development (USAID) invested \$13.7 million to establish the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet at K-State. The lab's primary focus is to improve the productivity, disease resistance, agronomy and economic of sorghum and millet in six partner countries.

world, including the United States.

“Through this collaborative research supported by SMIL and the funding through USAID, we will continue to explore the rich Ethiopian germplasm to come up with the next

resilient and high-yielding varieties,” Mengiste said. “With better leveraging of recent genetic technologies, we will expedite the development of the new generation of varieties or those in the pipeline.”



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Josh Whitehill



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Angus Foundation Heifer Package sells for \$50,000

Since 1980, the Angus Foundation Heifer Package has been sold to generate unrestricted funds to support its mission of youth, education and research. This year, Brumfield Angus Farms of Sawyer, Mich. purchased the Foundation Heifer Package, donated by Tehama Angus Ranch of Gerber, Calif. The package sold on Jan. 7, at the start of the National Angus Bull Sale during Cattlemen's Congress in Oklahoma City, Okla., and raised \$50,000 to support educational programs and scholarships.

The Borrer family generously offered the pick of their fall heifers for the 2022 Angus Foundation Heifer Package. The package also includes free transportation to the buyer's ranch provided by Lathrop Livestock Transportation, Dundee, Ill., and

an advanced reproductive technology package from Trans Ova Genetics, Sioux Center, Iowa.

The 2022 Foundation Heifer Package donated by the Borrer family serves as a true testament to their longstanding Angus roots and commitment to producing high-quality cattle. A maternal focus has been important since Tehama Angus Ranch was started with the purchase of Bill Borrer's first 4-H project. From one heifer to 50 cows and now 500, the family has a deep heritage within the breed, notably in California where they were the first family to have an Angus bull sale. This focus on desirable maternal traits, coupled with powerful Tehama sires including Tehama Patriarch F028, Tehama Tahoe B767 and Tehama Bonanza E410 results in an elite opportuni-

ty for the pick of their fall heifer crop.

"The most generous and thoughtful donors, like Tehama Angus Ranch and Brumfield Angus Farms, are found right here in the Angus breed," said Thomas Marten, Angus Foundation executive director. "With an outstanding offering from the Borrer family and the charitable impact made by Brumfield Angus, this tradition continues forward and provides financial backing for many of the educational opportunities funded through Angus Foundation grants."

The Angus Foundation Heifer Package has raised more than \$2.7 million since the inception of the program. For more information about the Angus Foundation or the annual Angus Foundation Heifer Package Sale, visit Angus-Foundation.org.

Winterizing your horse

By Wendie Powell, livestock production agent, Wildcat Extension District

Preparing for winter does not look the same for each species of livestock. Horses do quite well in the cold even if they live outside. A three-sided shelter will provide protection from the elements, and a clean place to lie down will help conserve body heat on a cold night. Ensuring proper diet, water intake and exercise level will help your horse stay healthy all winter long.

Just because energy needs are increased due to low temps, it's not enough to just dump more grain out to your horse. Hay is the best way to increase the amount of energy consumed. The natural fiber fermentation process that occurs in the hind gut produces heat, which will help maintain warmth. If forage quality is poor, a ration balancer can be used to provide balanced vitamins and minerals.

An increase in dietary forage demands an increase in water intake. The average adult horse needs about ten gallons of water daily. Horses are known to eat snow, but they usually don't eat enough to satisfy their

water needs. If you have a picky drinker, keep the water source clean and ice-free. Provide free choice salt year-round. Be sure the water source is large enough for more than one steed to drink at a time. Other ways to increase water consumption include soaking grain, beet pulp or hay cubes with warm water or adding flavor like peppermint oil. Electrolyte supplementation can also encourage drinking but shouldn't be done every day.

A working horse through the winter will likely sweat, calling for different care to prevent chills that could lead to hypothermia. A fleece or wool cooler should be placed over the horse when exercise is finished and left in place until the coat is dry. If the horse is blanketed, ensure that the coat is dry before putting the blanket back on. Blanketing over a sweaty, wet coat can worsen a chill. If exercise remains a steady part of your winter routine, clipping the coat is one way to reduce excess sweating.

Should your horse have a blanket? Imagine snow on his back. If the snow is just sitting there, no problem, but when it melts and your

horse's coat gets wet, heat is lost. A fleece or wool cooler will allow the coat to dry without too much heat loss. Older horses or those that have trouble keeping weight on can benefit from the added warmth of a blanket. Blanketing will help these horses conserve energy and stay warm. Horses that are stabled and used to a warm barn will also appreciate a blanket when heading out into bitter winds. The first step in blanketing your horse is to determine the proper size. Using a flexible measuring tape, measure the length of your horse from the center of the chest, along the side to the point of rump, just next to where the tail lies.

Once you start blanketing, the practice will need to continue until the weather warms up. Blanketing can flatten the coat, reducing its insulating ability. Stalled and blanketed horses need vigilance. Remove blankets every few days to check for sores and to ensure that your horse isn't losing condition.

For more information, contact Wendie Powell, Livestock Production Agent, (620) 784-5337, wendiepowell@ksu.edu.

Operation Lifesaver releases new rail safety resources for farmers and farm machine operators

Operation Lifesaver, Inc. (OLI), the national non-profit rail safety education organization celebrating its 50th Anniversary in 2022, is releasing new rail safety resources to help farmers and farm machine operators stay safe and avoid incidents around railroad tracks and trains.

Across the U.S., farm vehicles often cross railroad tracks on private roads in agricultural areas. According to preliminary 2020 Federal Railroad Administration statistics, 325 crossing collisions comprising 17% of total incidents occurred at

private railroad crossings, resulting in 22 fatalities (11.2% of total crossing-related deaths) and 111 injuries (16.1% of total crossing injuries).

The new OLI materials are available in both English and Spanish and include:

Audio and video public service announcements in 15 and 30-second lengths

Rail safety education presentations, lesson plans and handout materials for Junior Level (ages 8-11) and Senior Level (ages 12-17) students

A rail safety sticker to remind farm machine operators and others to "See

tracks? Think Train!"

"Every three hours in the U.S., a person or vehicle is hit by a train. We want farmers and farm machine operators to always expect a train, even on private property," stated OLI executive director Rachel Maleh. "The new PSA and rail safety education materials for young people along with the rail safety sticker provide actionable advice to farm communities on how to work safely near railroad tracks and trains as well as what to do in the event a tractor or other vehicle is stalled or stuck on the tracks."

"Operation Lifesaver's mission is to end collisions, deaths and injuries at highway-rail grade crossings and on rail property," Maleh noted. "We look forward to collaborating with our partners at the American Farm Bureau Federation and other national organizations to share these important safety tips with the farming community."

The rail safety education materials for youth and the sticker were developed with input from members of national youth development programs 4-H and the National FFA Organization.

The new materials are available in the Materials area of the oli.org website. For more information about railroad safety for farmers and farm machine operators, visit oli.org/farmers-and-farm-machine-operators.

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Can a deluge make up for losses in productivity and carbon uptake during a prolonged drought?

USDA, Agricultural Research Service scientists at the Rangeland Resources and Systems Research in Ft. Collins, Colo., are using rain shelters to experimentally examine the impacts of deluge during a drought on forage production and carbon cycling (release and intake of carbon) in a semi-arid grassland in eastern Colorado.

Producers across the country face the increasing threats of multiple climate extremes, which when combined, often have economic and ecological impacts worse than the same extremes in isolation. The Western states, for example, are experiencing extended droughts, forcing land managers to adapt agricultural practices to reduce losses in productivity. Added to this challenge are an increase in the frequency and intensity of extreme rainfall events, or 'deluges.'

"While working on shortgrass, we noticed a lot of

research on drought and rainfall in the Western states, but not enough on deluges, which is one of the key predictions with climate change — more extreme rainfall events are expected to happen, and could even happen during a drought," said research ecologist David Hoover.

In a study recently published in *Global Change Biology*, researchers measured the combined effects of two opposite extremes, a deluge during an extended drought, on green-up, end-of-season plant productivity, and carbon cycling using chambers to measure carbon fluxes.

Reduced carbon uptake in the soil, early plant senescence (deterioration), and a decline in forage production were observed with drought.

"When a deluge was added during drought, rapid changes were observed, including regreening of brown vegetation and a large pulse in carbon uptake within

days. However, the positive effects of one deluge during drought were temporary, lasting about a month. Based on our observations, one deluge could only partially compensate for the loss of forage production with extended drought," explained Hoover.

More research is needed to know exactly how these weather extremes impact forage production, and livestock. Hoover will continue these studies at larger and longer scales, including working with a team of scientists at the Colorado State University, to determine the legacy these extreme compounded events leave on the plants and the soils to provide producers with information that can help them adapt management to multiple climate extremes.

The study was funded by USDA, National Institute of Food and Agriculture.

CoBank Quarterly: U.S. monetary policy poised to replace COVID as economic wild card

Despite the surge in COVID cases and the complications it brings, the U.S. economy continues to thrive. Workers are steadily returning to the labor force; the unemployment rate is currently under 4% and consumers are still spending confidently.

Until the omicron surge subsides, the biggest economic risk will be the millions of workers who report sick and hamper already-beleaguered supply chains. The impacts for food and agriculture sectors will vary significantly by product but will generally be less severe than earlier in the pandemic, according to a new quarterly report from CoBank's Knowledge Exchange.

"Economic risks from new, high-impact coronavirus variants will remain throughout 2022," said Dan Kowalski, vice president of CoBank's Knowledge Exchange division. "But Americans are increasingly making peace with the notion that the virus, in some form, will be with us for months if not years, and we must find a way to live more normally with it. This shifting mindset will de-risk the economy to some degree."

As of late December, the U.S. has regained 84% of the jobs lost since the pandemic began, equating to a deficit of 3.6 million fewer workers compared to early 2020. The supply chain outlook has improved due to more workers in warehousing and transportation. Since May 2020, the U.S. has added 800,000 jobs in the two sectors, eclipsing the pre-COVID number of jobs by 3%.

As the labor market inches closer to full employment, any last arguments for the Federal Reserve to maintain its highly accommodative monetary policy are losing their merit. With the market now anticipating a sea change in monetary policy, the tightening of financial conditions has begun.

Grains, Farm Supply and Biofuels

Corn and soybean futures prices traded higher in the fourth quarter, reaching six-month highs at the end of December. Grain exports are recovering after barge movement disruptions caused by Hurricane Ida lingered into the fourth quarter. However, combined corn, soybean and wheat shipments to China have fallen by one-third compared to last season. Partially offsetting the decline in

Chinese buying, combined exports of corn, soybeans and wheat to Mexico increased by 24%.

Farm supply cooperatives and ag retailers enjoyed a profitable fall season amid high crop prices, strong farmer cash flows and favorable harvest conditions. Fertilizer prices continued to climb, increasing approximately 20% in Q4 and 160% versus the year prior. Input cost inflation, crop protection product shortages and labor challenges could threaten farm supply margins through the spring 2022 planting season and potentially beyond.

Ethanol production rebounded to pre-COVID levels and Q4 profit margins rose to all-time records, currently averaging \$1.34/gallon. Production reached a record 17 billion gallons annualized for two consecutive weeks in late October, before settling down to 16.3 billion at year end.

Animal Protein and Dairy

U.S. animal protein production moved moderately higher through Q4, but supplies remain under pressure due to robust demand. Combined production of red meat and poultry set a November record of 8.9 billion pounds, 3.5% larger than a year earlier. Ending stocks of poultry were down to five-year lows, and pork inventories hit 12-year lows. Meanwhile, fourth quarter wholesale meat indexes were 25% higher year-over-year, reflecting the heightened demand for animal proteins.

China's imports of animal protein have slowed significantly from their record peaks during the summer months. For U.S. producers, reliance on China has waned for poultry and pork, while the opportunities for beef remain robust. The 2022 outlook for sales to China remains mixed, as the nation's hog inventory has rebounded but African swine fever remains a wild card. China's growing affinity for U.S. beef has made beef producers optimistic.

Milk supplies tightened further in Q4 as the U.S. dairy herd continued to shrink, particularly in the West and Southwest regions of the U.S. where feed availability remains a persistent challenge. However, signs of prosperity are on the horizon as heifer prices rise, dairy cow slaughter moderates and farm sales slow. Class III milk futures traded on the CME ended 2021 above

\$20/cwt after starting the year below \$18/cwt.

Cotton, Rice and Specialty Crops

Cotton futures prices hit \$1.20/lb. in late November, the highest close in over a decade. But news of the omicron variant hit shortly thereafter, and cotton futures dropped 10-15 cents. Nonetheless, prices held above the longer-term upward trend that began in April 2020. However, despite the nearly two-year bull market, there is an increasing threat of downside risk as global stocks appear to be ample.

Rough rice futures languished in Q4 amid abundant exportable supplies in India and declining export price competitiveness. Persistent weakness in the Brazilian real has been a headwind to U.S. rice as Brazilian rice exports are more competitive in Western Hemisphere markets. U.S. export sales commitments for all rice in the current marketing year are down 36% year-over-year and shipments are down 5%.

The sugarbeet harvest is complete and record yields are expected following ideal growing conditions across the

upper U.S. growing region. U.S. sugar deliveries for human consumption have grown a combined 2.1% over the past two years. The question for 2022 is whether wholesale prices approaching 50 cents/lb. will finally put a crimp in sugar consumption.

The producer price index for specialty crops climbed sharply last quarter as smaller harvests drove farmgate prices higher. The rise in fruit and vegetable prices is due mostly to the persistent drought across the U.S. West that cut production through lower acreage and yields. The smaller tree nut harvest this fall is also sending almond, walnut and pistachio prices higher for both growers and consumers.

Power, Water and Communications

Natural gas and coal prices soared to multi-year highs in 2021 as buyers scrambled to line up sufficient supply ahead of winter. Last year's massive economic reboot and the inability of producers to keep up was largely to blame for energy supply shortfalls and run-away prices. However, some argue that energy transi-

tion played a role in high fuel prices as collective weaning from fossil fuels hobbles supplier response. The energy crisis playing out in Europe appears to support that analysis.

The Infrastructure Investment and Jobs Act provides \$15 billion for lead pipe removal, a far cry from the \$45 billion likely required. However, as the largest pay-out in a generation, the funding could make a meaningful dent in addressing this problem. Success of the current program will depend, in part, on how funds are spent.

The \$65 billion in new broadband funding is triple the size of the Rural Development Opportunity Fund (RDOF), which was the largest federal government broadband subsidy program. States will receive two-thirds of the funding to build networks in unserved and underserved areas. By tapping into local knowledge of where coverage is needed and who can build it, the Federal Communications Commission appears to have learned from the shortcomings of previous programs.

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Adults urged to apply for internship to help youth discover their ‘spark’

By Emily Halstead, K-State Research and Extension news writer

The Kansas 4-H program and the state's Department of Education are introducing an internship program for adults this summer to support Kansas youth that one official says will “spark an interest in science, technology, engineering and Extension work.”

“We’ll be doing lots of STEM and natural resource programming, as well as direct career and college readiness programing,” said Shane Potter, a youth development specialist with the Kansas 4-H program.

Potter said the strong infrastructure of Kansas 4-H will help adults network with professionals and engage with communities during the 12-week summer internship.

Interns will have a unique opportunity to help youth further their learning outside the classroom. “The summer program will directly seek to address learning loss as a result of loss of instructional time,” Potter said.

Don’t let drought woes follow you into 2022

Drought was nearly a constant state of being last year, starting in late 2020 and persisting throughout 2021. In fact, 52% of the Western United States experienced extreme or exceptional drought as late as mid-October 2021.

While we certainly felt the effects of drought in the year behind us, there's plenty sheep and goat producers can do to stop drought's lingering impact in the new year.

“Offsetting the impacts of drought is really a simple fix,” says Clay Elliott, Ph.D. and small ruminant nutritionist with Purina Animal Nutrition. “It's a matter of knowing what to look out for and giving your flock or herd a little bit of extra care.”

Here are four potential drought impacts to watch

out for and what you can do to reduce their effects:

Weaning weights

With drought impacting pasture quality and forage availability in 2021, many ewes and does were thin going into breeding season.

“Ewes and does not in proper body condition during breeding may have had issues in terms of conception on first service,” says Elliott. “Looking ahead to spring, we’re likely going to see more lambs and kids born later than we’re used to.”

Later-born lambs and kids need to play catch-up to reach weaning weights on par with the rest of the flock or herd. Implementing a creep feeding program is helpful to give lambs and kids the extra boost of protein, fat and

trace mineral they need for quick, efficient growth.

Correct condition

If ewes and does are still under conditioned during gestation, it could impact the development of the growing lambs and kids. Nutrition plays a critical role in fetal programming, or the “prenatal programming” lambs and kids experience in utero that will impact their health for their entire lifespan. Providing ewes and does with adequate nutrition during gestation can help ensure growing babies are properly developed and moms are ready to support lambs and kids after they're born.

“It's imperative that once lambs and kids are on the ground, they get quality colostrum from

mom,” says Elliott. “But, if ewes and does are nutritionally deprived during gestation, you could see an exponential effect on those babies due to lack of quality colostrum.”

Use a body condition score chart for sheep and goats to identify if extra nutrition, such as a mineral or protein supplement, is needed.

Forage financials

According to the National Drought Mitigation Center, the percentage of alfalfa hay acreage affected by drought in 2021 was the largest in the past decade. These poor growing conditions will have a domino effect into 2022. Not only will most of the forage quality be low, but the cost of purchasing high-quality hay is also currently off the charts

the state,” he said. “We plan to provide options where interns will be in a single county and do a high contact in-depth program, as well as participate in larger multi-county educational programs.”

He said he encourages adults who are driven, want to help their community and further explore a career in Extension education to apply for the internships.

“Through increased youth and adult partnerships the internship program will provide, we are helping youth identify goals and develop an open mind and try new things, which can help youth achieve greater academic success and employability,” Potter said.

“We want (adult) interns that are going to help drive that vision and who have a strong desire to make a difference.”

More information about the Kansas 4-H summer internship program can be found online, or at local Extension offices in Kansas.

the reasoning for this target score.

“For each body condition score that is below a five or six, there is a 10-20% drop in the return to cyclicity and rebreeding success,” Koontz said.

Veterinarian Brian Lubbers said the thin cows not only present a concern with rebreeding but also in meeting the demands of the current pregnancy.

“In mid- to late-gestation, the energy demands on the cow are increasing and so we want to make sure she is not too thin going into that last trimester,” Lubbers said.

With spring calving

cows, there is still time to make those weight adjustments, said veterinarian Bob Larson.

“For cows that need to gain 100 pounds in 60 days, they will need to gain a little more than a pound a day and that can be done by feeding high quality forage or additional supplements to get them to

that goal weight,” Larson said. “If poor quality forage is the only option, it will take a fair amount of supplement to gain a little more than a pound a day, but it is do-able.”

He suggested feeding thin cows energy cubes, distiller's grains or soybean hulls as supplements.

To help save on costs,

the experts agreed that pulling thin cows from the rest of the herd may be an economical way to save on feed expenses, but there is an additional labor cost that comes with this management strategy.

“If I have a group of thin cows, it may make sense to feed them separately, but if I only have one thin cow,

“And, this deficiency will continue as forages grown during the drought will also lack proper levels of vitamins and minerals.”

Feeding free-choice mineral with 90% or greater bioavailability is recommended year-round to keep a consistent level of nutrition and proactively mitigate impacts from drought or other unexpected challenges. If you aren't already, start feeding a mineral high in calcium and other trace minerals now to support growing lambs and kids during gestation.

Taking small steps now to offset the impacts of drought in your flock or herd will go a long way to a successful year ahead. Contact your local Purina nutritionist or visit purinamills.com to learn more.

Body condition scoring mid-gestation; K-State beef cattle experts offer tips on caring for thin cows

By Lisa Moser

While many are now evaluating their own post-holiday body condition and see the need to make some scale adjustments, this is also the time for cattle producers to evaluate the thinness of cows in the beef herd, said the experts at the Kansas State University Beef Cattle Institute.

Speaking on a recent *Cattle Chat* podcast, the group agreed that the target body condition score for a beef cow mid-gestation is five or six. Anne Koontz, Alltech senior research scientist was a podcast guest and explained

Roger and AgTrax™ announce a strategic integration partnership

Roger®, an independent digital technology solution for the dry bulk freight industry, recently announced that it has formed a strategic integration partnership with AgTrax, an industry leading grain accounting software firm based in Hutchinson.

Under the partnership, Roger and AgTrax will integrate their digital solutions to allow mutual agribusiness customers access to their intuitive data platforms. This seamless flow of information between systems will digitize older manual business processes

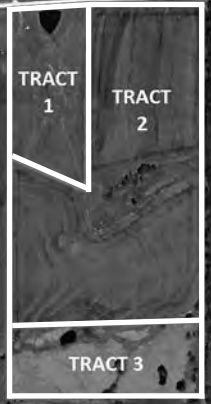
es and streamline business operations, resulting in fewer manual errors and more new business with faster payments.

“Roger is always listening to our users and exploring ways to create efficiencies in the industry. The Roger Partnership Program was established for key opportunities such as this. We've heard loud and clear that integrating with AgTrax is something

that many of our customers wanted to see,” said Jeff Schreiner, CEO of Roger. “This partnership with AgTrax will increase accuracy and timeliness of data, which translates to more new business and faster payments for our users. We saw an opportunity to help eliminate slower processes, organize data and communicate directly with our users' existing systems.”

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

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

LEE VALLEY, INC.
ANNUAL SPRING CONSIGNMENT AUCTION
THURSDAY, FEBRUARY 17, 2022 * 8:30 AM
Live Auction held at 1325 Hwy. 75, Tekamah, Nebraska

Tractors - Tillage
Harvest & Grain Handling
Trucks, Trailers, Vehicles
Antiques, Hay & Livestock, Construction
Planting & Spraying
Miscellaneous

Sale Listing, Photos & Details at: www.leevalley.net
ONLINE BIDDING at: www.Equipmentfacts.com
Online Sale Consignments will be accepted until 2/12.
All Items received after 2/12 will be sold, but not included in online bidding.

LEE VALLEY, INC.
JOIN LEE VALLEY IN ITS 60TH YEAR OF BUSINESS!
402-374-2792 * www.leevalley.net
Scott Olson: 402-870-1140

COIN AUCTION
SATURDAY, FEBRUARY 12, 2022 — 9:00 AM
627 Market Street — PORTIS, KANSAS
Doors Open at 8 AM for Viewing!

Selling Proof & Mint sets; several Silver Comm. inc. National Baseball Hall of Fame, Mark McGwire, 1st Flight, Bald Eagle, Yellowstone, Lewis & Clark; 1st Spouse .5 oz. Gold; Am. Eagle Gold Bullion; St. Gaudens Gold; Silver Am. Eagles proof & unc.; Large Cts; 2 Ct. pieces; Wht. Cts inc.: 1909s & 1914d, 1931s, 1922d; 1652 Oak Tree Shilling; 1776 New Hampshire Ct. Hobo; sheets of Wash. 1/4; sheets of Buff Nickels; books inc.: Jeff Nickels, Barb. Dimes, Merc. Dimes, Barb. 1/4, Wash. 1/4; Peace & Morgan \$ inc.: 1882CC in GSA box; Gold inc.: 1910 \$20, 2004 \$50 Gold Eagle, 1915 \$ 2 1/2 Gold, 1878 & 1887 \$20 French Franc Gold, 2005 \$5 Early Release & MORE!

SEE OUR WEBSITE FOR A COMPLETE LISTING!
www.woltersauctionandre.com

SALE CONDUCTED BY: WOLTERS AUCTION
627 Market St., Box 68 • Portis, KS 67474
Cols. Jim Wolters and Rich Fairbank, Auctioneers
Phone 785-346-2071; Cell 785-545-7097 * Email: wauction@ruraltel.net

MOVING AUCTION
SUNDAY, FEBRUARY 6, 2022 — 11:00 AM
335 N. 100 Rd - OVERBROOK, KANSAS
From Pomona take Colorado N. to 100 Rd turn East on 100 then 1/4 mile, 59 to Stafford West to Colorado Rd.

TRACTOR, TRUCK & CARS: International 1586 Cab Dials, Ford 1984 700 Flatbed 5 speed with hoist, 1969 Mustang 302 Auto, 1982 Mercury Zephyr 4-door, Allis Chalmers F2 Combine, Yamaha 750 motorcycle, Yamaha 600 ATV, like new.

EQUIPMENT: 100 gal. fuel tank w/electric pump, Farmhand feed grinder mixer, Hay Elevator, grain sifter, ripper chisel, grain drill, cultivators, 14' disc, Speed King grain auger, Little Horse Trailer, fork lift, Hesston swather, John Deere hay rake, International 2400 round baler, International planter, Allis Chalmers square baler, Montgomery Ward Sea King boat and trailer, motorcycle trailer.

HORSES & TACK: 5 Green Broke Horses, 4 Saddles, Lots of tack, Old Anvil, 5 square bales of straw, 100 round bale of brome.

TOOLS & MISC.: Lumber, hedge posts, truck tool box, 2 metal light poles, spiral staircase, radial arm saw, air tank, bee hives, hand tools, trunks, train sets, mini Singer Blackhead sewing machine.

More items to be put out day of auction too numerous to mention.

CHARLES YOUNG, SELLER
Please Follow all COVID guidelines.
Concessions & porta pots available

Pictures & full text at www.kansasauctions.net

EASTERN KS AUCTION BARN • 785-241-0208
DARYL STOTTMIRE, REALTOR/AUCTIONEER
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CECIL BEATTY, ROBERT KUIKEN, AUCTIONEERS

Cash, good check or credit card day of sale. Photo ID to obtain a bid number. Statements made day of sale take precedence over all printed material. Not responsible for theft, injury or accidents to persons or property.

Grass & Grain Area Auctions and Sales

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

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

Always great online Equipment auctions — www.purplewave.com

Online Auction (bidding open NOW & begins to close February 1, 2 PM) — 550+ lots of spa equipment, GMC Z71 truck, car port, tons of tools, Chrysler van, fork lift, Honda 1200 Goldwing & more held online at www.GriffinRealEstateAuction.com (items located in Emporia) for property of Dr. LaMar Diltz. Auctioneers: Griffin Real Estate & Auction.

February 1 — Land Auction consisting of 2,527 acres sold in 16 tracts of Osage, Lyon and Wabaunsee County land held at Osage City (and online bidding available: www.Sundgren.com) for the Lyman Family. Auctioneers: Sundgren Realty, Inc., Land Brokers.

February 5 — Axtell Knights of Columbus Consignment Auction, Axtell.

February 5 & 6 — Selling 2-5: 30+ kerosene lamps & many other types of lamps, Camel cigarette store shelf, crocks, tin wind-up toys, cast iron toys & other collectible toys, dolls, glassware, Fenton, Luray collection, kitchenwares, Christmas items & more collectibles. Selling 2-6: 100+ quilts, fancywork, ladies hats, large collection of yarn, lots of blankets & bedspreads held at Salina for Ilene Lambert. Auctioneers: Thummel Real Estate & Auction, LLC.

February 6 — Moving sale consisting of Tractor, trucks, cars including a 1969 Mustang, motorcycle, ATV, farm equipment, horses & tack, tools & misc. held near Overbrook for Charles Young. Auctioneers: Eastern Kansas Auction Barn.

February 6 — Land auction consisting of 80 acres m/l of Pottawatomie County land offered in 4 tracts. Tract 1: 20 acres m/l with 16 acres m/l crop ground, balance native grass; Tract 2: 20 acres m/l native grass; Tract 3: 40 acres m/l native grass served by 2 ponds; Tract 4: combination of Tracts 1, 2 & 3. Held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

February 10 — Land auction consisting of 152.44 acres m/l of Cropland & Grass in Morris County held at Burdick for the Family of the late Hedrick & Linnea Nelson. Auctioneers: Griffin Real Estate & Auction.

February 12 — Coin auction including proof & mint sets, commemoratives, Am Eagle Gold Bullion, 2 ct. pieces, 1652 oak tree shilling & coins of all kinds held at Portis. Auctioneers: Wolters Auction.

February 12 — New Strawn Farm & Ranch Consignment Auction held at a new location: East side of Hwy. 75 across from Casey's in New Strawn. Auctioneers: Kurtz Auction & Realty Service. Brett Skillman, new sales manager.

February 16 — Business Liquidation auction con-

sisting of trucks, trailers, neon signs, tools & more held at Topeka for Custom Neon & Vinyl Graphics. Auctioneers: Foundation Realty, Morgan Riat.

February 17 — Jewell County Real Estate Auction consisting of T1: 154.96 ac. m/l of farmland, 113.02 ac. cropland & 41.94 ac. of grass with trees; T2: 163.14 ac. m/l farmland, 57.49 ac. cropland, 105.65 ac. pasture with 2 ponds and rural water held at Jewell for Candance M. Durant & Donalee C. Durant Trusts, Dirk Durant, trustee. Auctioneers: Thummel Real Estate & Auction, LLC.

February 17 — Land auction consisting of 2 tracts in Morris County and 1 tract in Lyon County: T1: 38.6 ac. m/l Morris Co., potential building site, native & mixed grass pasture; T2: 90.2 ac. m/l Morris Co., wildlife, possible building site, native & mixed grass pastures; T3: 60.47 ac. m/l Lyon Co., potential building site, native & mixed grass pastures all held at Council Grove for Roswurm Family. Auctioneers: Griffin Real Estate & Auction.

February 17 — Annual Spring Consignment auction consisting of tractors, tillage, harvest & grain handling, trucks, trailers, vehicles, antiques, hay & livestock, construction, planting & sprayer & more held at Tekamah, Nebraska (with online bidding at equipmentfacts.com). Auctioneers: Lee Valley, Inc.

February 17 — Special Bred Cow/Heifer sale held at Beatrice 77 Livestock, Beatrice, Nebraska.

February 19 (tentatively) — postponed from January: One of a kind Kansas Centennial Collection, toys (most all have boxes) including Precision Classics, Spec Cast, Prestige, Shelve Models, Trains & more; collectibles, household, tools & miscellaneous including advertising items including petroleum & signs, jewelry & more held at Lawrence for Don & Jane Schwartz Estate, Mark Shuck and a private seller from Western Kansas. Auctioneers: Elston Auctions.

February 24 — Land auction consisting of 314.68 acres m/l of pasture & cropland in Marion County held at Marion for the Woerz Family. Auctioneers: Griffin Real Estate & Auction.

February 26 — Real Estate auction consisting of 38 acres m/l Pottawatomie County land with Hwy. 99 frontage, currently hay meadow and pasture, great home site potential with rural water available held at Blaine for Shirley A. Willard. Auction-

eers: Pearl Real Estate & Appraisal Service, Mike Pearl, broker and Dennis Rezac, auctioneer.

February 27 — Land Auction consisting of and 80-acre parcel 2 miles north of Wamego: T1: 14 ac. m/l made up of grass and served by a pond, possible building site; T2: 50 ac. m/l with 45 ac. m/l tillable acres, balance waterway and brome; T3: 15 ac. m/l of grassland; T4: tracts 1, 2 & 3 combined held at Wamego. Auctioneers: Crossroads Real Estate & Auction, LLC.

February 28 — C-Bar Red Angus annual bull sale held at Plainville.

March 3 — Jensen Brothers Annual Bull sale held at Courtland.

March 5 — Coin auction held at Emporia. Auctioneers: Swift-N-Sure Auctions & Real Estate.

March 5 — Judd Ranch 44th Gelbvieh, Balancer & Red Angus Bull Sale held at Pomona.

March 5 — Laffin Ranch Annual Angus production sale held at Olsburg.

March 7 — Lyons Ranch 34th Annual Superior Genetics Angus Bull Sale held at Manhattan.

March 8 — Schreiber Angus Annual Spring Production Sale held at Beaver.

March 9 — Live & Online Land Auction consisting of 320 acres m/l of Norton County, Kansas land sold in 1 tract held live at Norton and online at RanchandFarmAuctions.com. Auctioneers: Ranch & Farms Auctions in cooperation with Whitetail Properties Real Estate, LLC.

March 9 — Stucky Ranch Annual Production Sale held at the ranch near Kingman.

March 10 — Land auction consisting of 316 acres m/l of Washington County land with 58.3 dryland acres, 256.2 Native Grass acres & 1.5 acres tame grass held at Morrowville (with phone and online bidding available at www.MidwestLandandHome.com) for Bill & Janet Rooney. Auctioneers: Midwest Land and Home, Mark Uhlik, listing broker/ auctioneer & Jeff Dankenbring.

March 16 — Woodbury Farms 11th Annual Bull & Female Sale sale held at Overbrook.

March 17 — Smoky Y Red Angus Ranch sale held south of Monument.

March 19 — postponed from January: 350+ unbuild Model kits, 1500+ loose Hot Wheels, die cast banks, 90+ Hallmark mini-pedal cars, Marx toys, Star Trek & other toys, 700+ comic books, autographed baseballs & many more collect-

ibles held at Lawrence for Ron Thornton. Auctioneers: Elston Auctions.

March 26 — Annual Consignment auction consisting of farm machinery, trucks, trailers, livestock equipment, farm tools & farm miscellaneous held at North edge of Durham in conjunction with G&R Implement. Auctioneers:

Grass & Grain, February 1, 2022

Leppke Realty & Auction.

March 26 — New Haven Angus Annual Production Sale held at Leavenworth.

March 26 — Sandhill Farms Hereford Production Sale held at the farm near Haviland.

March 28 — Farm Machinery with no small items held near Abilene for Charles Wilson Trust.

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Auctioneers: Kretz Auction Service.

April 9 — 2021 Chevy 1/2T, New, 6500 mi.; 2013 Chevy 3/4T, Like New; JD 6300 FA tractor w/cab & loader, many tools & farm-related items held south of Holland for the William H. (Billy) Hobson Estate. Auctioneers: Reynolds Auction Service.

Feedlots maintain cattle inventories

By Derrell Peel, Oklahoma State University

Unexpectedly large December placements once again pushed feedlot inventories higher year-over-year on January 1. Feedlot placements in December were 106.5 percent of last year, higher than the average trade expectation and above the trade estimate range.

December marketings were about as expected at 100.8 percent of one year ago. However, with one less slaughter day in the month, daily average marketings were 5 percent higher year over year in December. The January 1 on feed total was 12,037 million head, 100.6 percent of last year. On January 1, the inventory of steers in feedlots was 0.5 percent below one year ago while the number of heifers on feed was up 2.4 percent year-over-year.

Although cattle numbers are generally declining, feedlots will try to maintain inventories as long as possible. Following a similar pattern to November, most of the increase in December placements was lightweight cattle. Placements of cattle weighing less than 700 pounds were up 9.5 per-

cent year over year while placements of cattle over 800 pounds were up just 1.7 percent compared to last year.

Cattle producers may have helped feedlots with large December placements as rising feeder prices encouraged later and larger auction totals... at least in some regions. In Oklahoma, for example, feeder cattle auction totals for the three weeks of December sales were up 22.4 percent year over year. Feeder cattle supplies are expected to tighten considerably in 2022.

With the final numbers for December completing the year, commercial beef production in 2021 totaled 27,937 billion pounds, up 2.8 percent year over year and a new record annual total for the U.S. Total cattle slaughter (federally inspected) was 33.184 million head, up 3.2 percent over 2020. It's worth noting that 2021 had a total of 254 slaughter days, two less than 2020 (a leap year). Total slaughter days per year vary from 254 to 256 and usually only change by one day more or less per year.

Total steer and heifer (fed) slaughter was 25,972 million head in 2021 with

steer slaughter at 16.145 million head. Heifer slaughter was 9,827 million head and made up 37.8 percent of fed slaughter, the largest percentage since 2004. Total cow slaughter was 6,669 million head and accounted for 20.1 percent of total slaughter, the highest percentage since 2011. Beef cow slaughter totaled 3,562 million head, up 9.0 percent year over year.

Steer carcass weights averaged 906 pounds last year, down one pound from 2020. Average steer carcass weights exceeded average bull carcass weights (884 pounds in 2021) for the third year in a row. Heifer carcass weights averaged 831 pounds, down 1.8 pounds year over year. Cow carcass weights averaged 637 pounds, down 3.8 pounds from the prior year.

Declining cattle numbers are projected to reduce cattle slaughter by 2.5-3.0 percent in 2022 and lead to a 2.5 percent decrease in beef production for the year. However, drought could change the timing by forcing more liquidation and slaughter sooner and delaying the decrease in production until later.

REAL ESTATE AUCTION

38 Acres m/l with Hwy. 99 Frontage

SATURDAY, FEBRUARY 26, 2022 - 10:00 AM

Blaine Church Hall - BLAINE, POTTAWATOMIE COUNTY, KANSAS

Located 2.5 miles North of Blaine on East side of Hwy. 99

38 Acres M/L A rare find with Hwy 99 frontage and Rock Creek schools. Currently hay meadow and pasture. Great home site potential, rural water available. **Don't miss out on this opportunity for your future home with enough land for your mini-farm for horses, cattle, 4-H livestock and years of family memories.**

Directions: From Blaine, KS north on Hwy 99 for 2.5 miles, property on east side.
Terms of Sale: Successful bidder, sign purchase contract, 10% down to Charlson & Wilson on day of auction with the balance due at closing on or before March 25, 2022. Possession at the time of closing. Buyer to have all inspections they deem necessary completed prior to closing. All financial arrangements must be made prior to auction, no finance contingencies will be accepted. Owner's title policy and closing fees will be paid half by Seller and half by Buyer. The 2022 taxes will be paid by the Buyer. Real Estate Agents are agents of the Seller. This property is being sold in its present existing condition "as is". Statements made the day of auction take precedence over all printed materials. Not responsible for accidents.

SELLER: SHIRLEY A. WILLARD

For more information go to: www.pearlrealestate.org

Pearl Real Estate & Appraisal Service, Inc.

ST. MARYS, KS 66536 785 437-6007

Mike Pearl, Broker: 785-256-5174

Dennis Rezac, Auctioneer: 785-456-4187

2-DAY AUCTION

SATURDAY, FEBRUARY 5 & SUNDAY, FEBRUARY 6, 2022

10:00 AM EACH DAY

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

SATURDAY, FEBRUARY 5

30+ kerosene lamps; Aladdin lamps; bracket lamps; hanging lights; assortment of pictures; Camel cigarette store shelf; cowboy puzzles; lunch boxes; 2 oak wall telephones; coffee grinders; sad irons; mantel clocks; crocks; SEC Coke bottles; other bottles; Aunt Jemima salt & pepper; assortment of tin windup toys many in boxes; cast iron toys; assortment of other toys; truck & other banks; assort-

ment of dolls many Barbies; doll tea sets; Swedish figures; marbles; Harmony banjo; coaster wagons; Tinker Toys; skate boards; assortment of glass; Fenton pieces; Iris pitcher; hand painted bowls; refrigerator dishes; carnival candle holders; Art glass; Luray collection; pencils; trivets; waffle irons; kitchen items; kitchen sifters; toy cash register; aluminum ice buckets; ducks; Christmas items; Beanie Babies; 6 White

Mountain ice cream freezer; cookie jars; Very large collection of toys, dolls, glass and collectibles.

SUNDAY, FEBRUARY 6

100+ quilts; wool blankets; bedspreads; dollies; table cloths; fancy work; sewing baskets; buttons; 35 ladies hats; very large collection of yarn; This is a large day, many blankets, quilts, spreads & fancy work.

NOTE: Ilene bought for many years. This is a 2-day auction. Saturday we will sell one room that has many collectibles. Sunday will be quilts linens, blankets. There are many boxes that we have not unpacked for both days. Check website for pictures www.thummelauction.com

ILENE LAMBERT

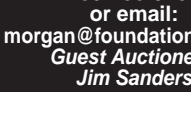
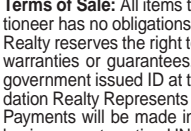
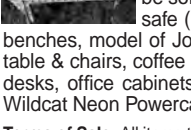
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

BUSINESS LIQUIDATION AUCTION

WEDNESDAY, FEBRUARY 16, 2022 — 10:00 AM

LOCATION: 530 NW Broad Street, TOPEKA, KANSAS 66608

Directions: Take the Topeka Blvd. exit South off Hwy. 24 & proceed 1/2 mi. to Broad St. & turn West



TRUCKS & TRAILERS: 1995 Ford F150 2WD (exceptionally clean with only 69,166 orig. miles); 2000 International 4700 T44E w/air brakes & 6 spd. trans. (7.3L engine, great tires, equipped w/Miller Bobcat welder generator, 60' boom & a good looking set of tires); 1999 International 4700 T44E (recently new injectors in motor, equipped w/Miller Bobcat welder generator, 55' boom & the 7.3L diesel motor, as well as mechanical brakes & a 6 spd. trans); 18' tandem axle car trailer w/spare tire. **TOOLS & SHOP EQUIPMENT:** Chicago Stomp Sheer, Chicago 10' metal barge, Delta drill press, 40' ext. ladder, multiple other ext. & step ladders, traffic cones, Fastenal bolt bin, misc. bolt bins, shelving, pipe & round tubing, Fastenal organizers, tool bags, painting supplies, welding supplies, screw drivers, wrenches, nuts, bolts, fasteners, power tools, levels, tape measures, roller stands, sockets, locking pliers, cable type come-alongs, conduit benders, lots of different pliers, Power Mate Tote mig, drill bits, torch hoses, Delta table saw, jacks, bench grinder, Central Pneumatic air compressor, fans, chop saw, panel saw, Millermatic 251 wire feed welder (very great cond.), paint shaker, harnesses, more tools & items too numerous to mention. **SIGNS, ADVERTISING, OFFICE SUPPLIES & MORE:** Camel basket display, Hair House & Salon & Spa signs, Pepsi sign, The Team Sporting Goods sign, multiples of neon signs too numerous to mention, we will be sorting through signs until sale day, fluorescent light bulbs, sign letters, filing cabinets, iron safe (no combo but is unlocked), laminate sign making supplies, large drafting table, work benches, model of John Kennedy's PT109 boat, Ducks Unlimited items, Guinness sign, conference room table & chairs, coffee maker (like new), Vizio TV, credenza, Neon gas tube & Argon gas tube display, office desks, office cabinets, large office filing cabinets, office chairs, computer monitors, office supplies, KSU Wildcat Neon Powercat, many more items yet to be discovered!

Terms of Sale: All items to be sold to the highest bidder except in the case of a reserve price set on the item by the seller. Auctioneer has no obligations to disclose reserve prices. All absentee bids will be taken only if approved by Auctioneer. Foundation Realty reserves the right to refuse service to anyone for any reason. All items are sold as is where is with absolutely no implied warranties or guarantees. Buyers are responsible for their items when Auctioneer says "sold". All buyers must have a valid government issued ID at time of registration. All announcements on the day of sale take precedence over all advertising. Foundation Realty Represents the seller. **Terms of Payment:** All payments to be made before items are removed from the premises. Payments will be made in full on the day of the sale with cash or valid check. All titles will be mailed out no sooner than 10 business post auction UNLESS buyer is to pay in cash or certified funds on the day of the auction before the auctioneer leaves the sale site. All returned checks will result in a \$50 additional service fee. Forms of electronic payment will not be accepted.

For questions call:
MORGAN RIAT,
REALTOR®/AUCTIONEER
785-458-9259
or email:
morgan@foundationks.com
Guest Auctioneer:
Jim Sanders

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Visit us at www.foundationks.com for more details & pictures!

REAL ESTATE AUCTION

THURSDAY, FEBRUARY 17, 2022 — 1:00 PM

Auction will be held in the Community Center on the South side of the square in JEWELL, KS SW ¼ 8-5-8 Jewell Co., Kansas

The farm is located on E & 140 roads in Browns Creek Township Jewell Co. The farm is located 4 miles West of Jewell to 150 road then South 3 miles to E road then ½ mile West. There are 154.96 farmland acres. 113.02 cropland acres and 41.94 acres of grass with trees. This is a good hunting area. The bases are wheat 53.37 with 47 bu yield, grain sorghum 24.74 with 102 bu yield, soybeans 3.20 with 33 bu yield for a total base acres of 81.31. 2021 taxes are \$2,765.66. Seller will pay 2021 taxes. Purchaser will pay 2022 taxes. Possession of the grass will be upon closing. Possession of the farm ground will be after 2022 wheat harvest. Purchaser will receive the landlond's 1/3 share of the 2022 wheat crop. **SE ¼ 24-4-9 Jewell Co., Kansas**

The farm is located on I & 130 roads in Iona

Thummel Real Estate & Auction LLC is acting as seller agent. **All statements made day of auction take precedence over printed material. Visit our website: www.thummelauction.com**

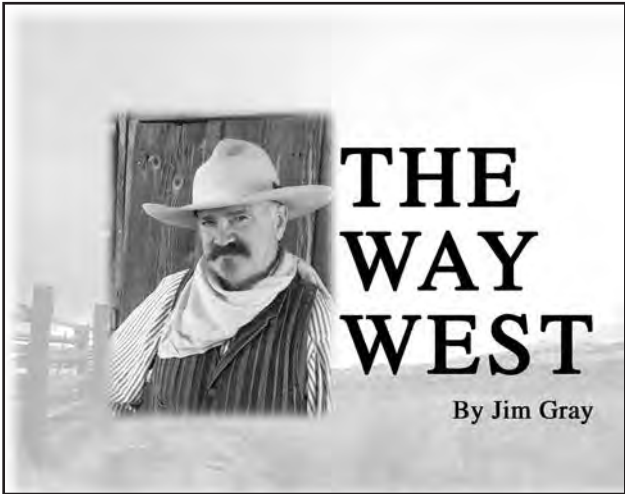
CANDANCE M. DURANT & DONALEE C. DURANT TRUSTS

Dirk Durant, Trustee

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

Township Jewell Co. The farm is located 6 miles West of Jewell to 130 road then North 1 mile. There are 163.14 farmland acres. 57.49 cropland acres and 105.65 acres pasture with 2 ponds and rural water with 2 hydrants. The bases are wheat 27.14 with 47 bu yield, grain sorghum 12.58 with 102 bu yield, soybeans 1.63 with 33 bu yield for a total base acres of 41.35. 2021 taxes were \$1,391.50. Seller will pay 2021 taxes. Purchaser will pay 2022 taxes. **Possession will be upon closing.**

Terms: 10% of purchase price as down payment day of auction, the balance will be paid upon closing on or before March 31, 2022. Down payment will be escrowed with NCK Title LLC. Escrow fees will be split 50/50 between seller & purchaser. Title insurance will be used, the cost will be split 50/50 between seller & purchaser.



Rising Sun

When Joseph Haddix arrived on the north bank of the “Kaw,” the popular name of the time for the Kansas River, the prospects for a new townsite were immediately apparent. The year was 1857. The Kansas Territorial Capital of Lecompton was across the river to the south. A ferry operated by William Simmons crossed the Kaw at the present-day location of the Lecompton Road

bridge. Although set aside by the federal government as Delaware Trust Lands, Haddix laid out Rising Sun (south of present-day Perry, Kansas). Rising Sun was incorporated by the Territorial Legislature in 1858. William J. Norris, Henry C. Cockril, Thomas Cockril, and William G. Mathias were trustees with Haddix as president. Rising Sun was the earliest business center

of Kentucky township. At the time the township comprised the southern half of Jefferson County, named for the homeland of early settlers. The first settler in Kentucky township was slave-holder John Scaggs. He and his slaves were “skilled at sawing lumber.” Before Rising Sun was established Scaggs supplied lumber for buildings across the river in Lecompton.

Town fathers immediately went to work establishing a proper community. Methodist minister Reverend Nathan Scarrett preached the first sermon in the home of Alex Bayne. By the end of 1857 the town boasted a church and school house. Miss Anna Foster was hired to teach by subscription. Other public buildings were to come “in a short time.” Two steam sawmills kept lumber coming. Four thousand feet of lumber could be produced in a day “affording good facilities for building, with little cost.”

The December 31, 1857, issue of the *Lecompton National Democrat* recorded, “upwards of one hundred inhabitants,” with many more coming in every day. Situated in the beautiful, well-timbered “Kaw Valley,” Rising Sun was built on expectations that the Missouri Pacific Railroad would build through the

town, “making it a place of “much importance.”

The first polling place for Jefferson County was established in 1868. The United States Postmaster General awarded the town an official post office on November 11, 1858. James Black was appointed postmaster.

It didn’t take long for controversy to arise. A letter dated June 29, 1859, published in the *Leavenworth Times* and reprinted in the *Topeka Tribune* complained of political trickery in Jefferson County. Five or six men were refused the opportunity to vote at Rising Sun on June 7th for a delegate to the Constitutional Convention. The writer accused the founders of the town of stealing the land on which they lived and being of the “wrong party.” The letter concluded, “We are not abolitionists, but we are decidedly opposed to being slaves ourselves.” Even so, the results of the vote for the pro-slavery Lecompton Constitution showed a significant presence of Free State men at Rising Sun with thirty votes against ratification compared to forty-two votes in favor.

The Western Stage Company brought new visitors to Rising Sun with the commencement of operation in early March 1860. Rising Sun was a

wide-open frontier town. Said to be infested with horse thieves, murderers, and gamblers, shootings were considered the regular order of the day.

At Lecompton citizens kept their horses penned in a tight corral to deter theft. Armed guards were directed to signal for help with gunfire on the approach of suspected thieves. The alarm was soon sounded, and as men were seen coming in response from all directions the horse thieves retreated, swimming their horses across the Kaw.

Once in Rising Sun the would-be thieves grew overconfident amid familiar surroundings. After all, they had taken no horses in their foray to Lecompton. While drinking at the Rising Sun saloon their pursuers also crossed the river. The fugitives were easily captured, taken outside and without their day in court, “hanged from a tree limb.” Under that limb near the saloon their remains rendered unto Rising Sun its unofficial burying ground.

The eventual success of the Free State movement brought a decline in Lecompton’s political and economic power. Rising Sun’s fortunes fell as well. Both towns were raided by federal troops the morning of July 27, 1862.

Several men were arrested for treason and taken to Fort Leavenworth. The property of an unnamed man “reported as a recent bushwhacker from Missouri,” was confiscated. The Junction City Smoky Hill and Republican Union praised the action, “Keep the ball rolling, General – let the rebels throughout the State know that they are in ‘America.’”

In fact, Captain Jerome Kunkel raised a company of seventy-six men from Rising Sun and Oskaloosa to support the Union. Kunkel’s troops arrived at Fort Leavenworth on September 5, 1862. At Fort Leavenworth the recruits became Company D, Eleventh Kansas Volunteer Cavalry.

At Rising Sun robbery, murder, and hangings continued to be the order of the day. However, illumination would eventually set for Rising Sun. The railroad in which founders had placed their hopes passed them by. By 1890 Rising Sun had become a mere memory 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.*



Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

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

TOTAL FOR THE WEEK: CATTLE 3,551

BULLS: \$100.00-\$117.50		18 mix	Hesston	809@160.25
COWS: \$70.00-\$78.50		12 blk	Galva	813@160.00
		39 mix	Oak Hill	747@160.00
STEERS		6 blk	Galva	768@159.50
300-400	\$198.00 - \$225.00	8 blk	Abilene	802@159.00
400-500	\$194.00 - \$213.00	12 mix	Abilene	849@159.00
500-600	\$188.00 - \$208.00	11 mix	Wellington	758@158.50
600-700	\$166.00 - \$174.75	10 mix	Moundridge	799@157.50
700-800	\$159.00 - \$164.00	10 blk	Haven	830@157.00
800-900	\$155.00 - \$160.50	13 blk	Lindsborg	812@156.25
900-1,000	\$145.00 - \$150.00	10 blk	Tescott	900@150.00
HEIFERS		17 blk	Sterling	920@148.00
400-500	\$170.00 - \$186.00	18 mix	Lindsborg	970@142.25
500-600	\$164.00 - \$178.00	62 blk	Hope	1005@140.00
600-700	\$150.00 - \$157.50			
700-800	\$140.00 - \$147.50	HEIFERS		
800-900	\$140.00 - \$146.50	2 blk	Hillsboro	413@186.00

HEIFERS

THURSDAY, JANUARY 27, 2022			9 blk	Sedgwick	498@180.00
STEERS			2 blk	Falun	358@180.00
1 blk	Lincoln	385@225.00	4 blk	Hutchinson	456@178.00
4 blk	Florence	349@222.50	9 mix	Geneseo	504@178.00
2 blk	Beverly	356@220.00	3 blk	Ellsworth	513@177.00
2 red	Assaria	438@213.00	10 mix	Falun	504@177.00
6 blk	Salina	460@209.50	7 blk	Lincoln	516@176.00
17 blk	Beloit	473@209.00	4 mix	Hutchinson	526@175.00
12 blk	Wichita	506@208.00	4 blk	Gypsum	539@173.00
6 mix	Hutchinson	513@207.50	2 blk	Moundridge	538@172.00
2 blk	Clay Center	475@206.00	6 mix	Beloit	536@172.00
4 blk	Lincoln	504@203.00	4 blk	Wichita	415@172.00
15 mix	Oak Hill	522@203.00	14 blk	Beverly	547@171.50
6 mix	Manhattan	508@201.00	2 blk	Clay Center	543@165.00
7 mix	Beloit	499@201.00	8 mix	Sedgwick	574@164.50
48 blk	Beloit	565@198.00	15 blk	Wichita	551@163.00
5 blk	Randolph	563@196.00	4 blk	Wellington	635@157.50
6 blk	McPherson	552@195.00	15 blk	Galva	630@155.25
11 blk	Beloit	565@194.50	8 blk	Hillsboro	613@155.00
5 mix	Lincoln	527@194.00	10 mix	Salina	578@155.00
8 mix	Falun	575@190.00	18 mix	Falun	636@155.00
11 red	Manhattan	583@177.00	9 blk	McPherson	603@153.00
55 blk	Beloit	647@174.75	37 mix	Beverly	651@152.75
5 mix	Clay Center	631@174.50	4 char	Concordia	643@149.00
20 blk	Lincoln	653@173.75	6 char	Wellington	667@149.00
15 blk	Beloit	677@172.75	35 mix	Minneapolis	751@147.50
1 blk	Galva	623@172.50	13 mix	Abilene	857@146.50
18 blk	Beloit	643@172.25	6 rd	Hope	713@146.00
5 blk	Wichita	656@172.00	15 mix	Beverly	733@145.50
6 blk	Lincoln	668@170.50	7 mix	Beloit	700@145.50
16 blk	Falun	662@170.25	20 blk	Hesston	855@145.50
11 red	Hope	662@170.00	33 mix	Kanopolis	853@144.00
8 blk	Galva	657@170.00	13 blk	Haven	895@139.00

MONDAY, JANUARY 24, 2022

BULLS

1 blk	Salina	2005@117.50
1 blk	Bushton	2815@113.50
1 red	Gypsum	2040@113.00
1 blk	Courtland	1610@110.50
1 blk	Canton	1835@109.50
1 blk	Galva	1955@108.00
1 char	Salina	2085@108.00
1 blk	Sylvan Grove	2105@106.50

UPCOMING SPECIAL SALES:

All Sales are on Tuesday at 11 AM

SPECIAL COW SALES: Tuesday, February 15

* Tuesday, March 15 * Tuesday, April 19 * Tuesday, May 3

IN STOCK TODAY:

• Heavy Duty Round Bale Feeders * 42' ROUND BALE DUMP TRAILERS

For Information or estimates, contact:

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

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

Jim Crowther
785-254-7385
Roxbury, KS

Lisa Long
620-553-2351
Ellsworth, KS

Cody Schafer
620-381-1050
Durham, KS

Kenny Briscoe
785-658-7386
Lincoln, KS

Kevin Henke
H: 785-729-3473, C: 785-565-3525
Agenda, KS

Austin Rathbun
785-531-0042
Ellsworth, KS

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

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

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

THURSDAY — CATTLE ONLY

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

AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD

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

CATTLE USA.com LIVE CATTLE AUCTIONS

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

DON'T FORGET TO CONSIGN YOUR HORSES IN OUR SPRING HORSE SALE, WHICH CLOSES ON MARCH 1, 2022!!

1 bwf	Bushton	2160@105.50	1 blk	Brookville	1370@71.00
1 blk	Galva	1865@103.00	1 char	McPherson	1525@71.00
1 blk	Salina	1865@103.00	1 blk	Salina	1505@70.00
1 blk	Assaria	1980@100.00	1 blk	Delphos	1660@70.00
			6 blk	White City	1210@70.00

COWS			CALVES		
1 blk	Canton	1445@78.50			
6 blk	Brookville	1755@76.50	2 blk	Concordia	295@575.00
1 red	Canton	1320@76.00	1 blk	Wakefield	280@525.00
1 char	Lorraine	1670@75.00	1 blk	Hays	250@500.00
5 mix	Brookville	1716@75.00	1 blk	Gypsum	50@400.00
7 mix	Brookville	1613@75.00	1 blk	Salina	125@400.00
7 blk	Brookville	1699@75.00	1 blk	Salina	60@325.00

HOGS	
16 wht	Lincolnville 312@63.00
11 wht	Pawnee Rock 260@60.00

SOWS	
2 wht	Abilene 400@42.00
2 wht	Abilene 533@35.00
3 mix	Abilene 492@33.25
2 wht	Abilene 570@33.00

EARLY CONSIGNMENTS FOR THURSDAY, FEBRUARY 3, 2022

90 blk, s&h, 700-800, home raised, long weaned; 45 blk, s&h, 500-700; 50 mostly blk, s&h, 600-700, home raised, weaned Nov 1, vacc, off rye; 25 mostly blk, s&h, 450-600, home raised; 50 blk/red, s&h, 550-750, 60+ days weaned, vacc; 18 s&h, 500-700, 60+ days weaned, 2 vacc, home raised; 8 blk, strs, home raised, 400-500; 200 s&h, 650-800, long weaned, vacc; PLUS MORE BY SALE TIME.

EARLY CONSIGNMENTS FOR TUESDAY, FEBRUARY 15, 2022

SPECIAL COW SALE

COWS: 40 blk, 6-8yr old, bred to horned herf or angus, start April 1 for 60 days; 8 blk/red pairs, 3-4yr old, 5, 3yr old, coming with 2nd calf, bred to sim/angus, spring calves, 10 blk, young cows, 5 pairs, young to old, 25 blk and red, 3-5yr old, bred blk; 100 blk or red, 3-5yr old, bred red or blk angus, gentle; 6 angus, 6-8yr old, heavy bred, bred to char or angus; 500 blk/bwf, 3yrs to older, bred angus, start Mar 1 for 60 days, all raised a calf last year; 8 angus, 3-9yr old, bred McCurry; PLUS MORE BY SALE TIME.

BRED HEIFERS: 16 red, start March, bred to proven calving ease blk angus, worked; PLUS MORE BY SALE TIME.

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

