

# GRASS & GRAIN<sup>®</sup>

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## Sailor killed in Pearl Harbor attack finally laid to rest



As the hearse carrying the remains of Rex Wise drove through Blackwell, Oklahoma, people lined the streets to pay their respects and the local fire department suspended a large American flag from the ladders of two fire trucks.

Photos by Amy Kralicek

### By Donna Sullivan, Editor

It was a homecoming fit for a hero – and one that was long overdue, as the remains of Rex Wise, a 21-year old sailor killed in the Dec. 7, 1941 attack on Pearl Harbor, were finally brought home and laid to rest.

Wise's niece, Helen Weller of Riley, was the family member there to receive the flag-draped casket, although she'd been just seven years old when the family first learned of his death.

"The Navy Department called me before Christmas last year and said that since I was the oldest living grandchild that I'm the one that was supposed to be in charge," Weller said. She was surprised to receive the call at all. She knew her aunt had given saliva samples for com-

parison, and three tests were conducted before they were finally able to identify his remains.

Wise was stationed aboard the USS Oklahoma at Pearl Harbor. He was one of more than 2000 sailors killed in the attack, and one of several hundred whose bodies could not be identified at the time and were buried in the Halawa and Nu'uano cemeteries on Oahu. Wise and some of the other sailors were later reburied in an area known as the "Punchbowl" at the National Memorial Cemetery of the Pacific in Honolulu. His remains were exhumed in 2015 to be analyzed for possible identification. On October 17, 2019, using his dental records and the saliva sample from his sister, Defense POW/MIA Account-

ing Agency personnel were finally able to make a positive identification.

On October 13, 2021, one day before his 100th birthday, and also the 245th birthday of the U.S. Navy, Rex Wise finally made it home. And what a reception was there to welcome him. Members of the Wichita Navy Reserve presented his flag-draped casket to his family members as it came off the plane at the Dwight D. Eisenhower National Airport in Wichita, while a large crowd looked on and cheered. Following the ceremony at the airport, more than twenty American Legion Riders escorted his hearse as it made its way to the Braman Cemetery in Oklahoma. As they exited the turnpike and drove through Blackwell, Oklahoma, Weller saw lines



Rex Wise, whose father grew up in the Waterville area, was killed in the December 7 attack on Pearl Harbor. When his remains were finally positively identified, they were returned to his family and he was laid to rest in Braman, Oklahoma.

of police cars with their lights flashing. "I thought there had been a wreck or something," she said. No, it was more people gathered to pay their respects to the young sailor as he made his way to his final resting place. A large American flag hung over the street, suspended between the ladders of fire trucks. More people lined the streets and cheered.

"It was a really awesome experience, we hadn't expected that," Weller admitted.

The funeral was held

the next day, and about a hundred people were at the cemetery to greet the hearse and Wise's family. American flags flew throughout the hallowed grounds.

"There were just a lot of emotions," Weller commented. There were American Legion riders and VFW members, several of whom commented that while they'd attended many military funerals, this was the first for a WWII veteran. "For older people, it really meant a lot to them to be there,"

she said.

Rex was one of twelve children in his family. His father grew up in the Waterville area. While they were a close family that kept in touch, Weller doesn't remember them speaking a great deal about Rex, although his death always haunted them. As he was laid to rest on what would have been his 100th birthday, a wide range of feelings ran deep. "There were just a lot of emotions," Weller said. "It was a really terrific feeling."

## Virtual Agriland fills void to teach agriculture






### By Lucas Shivers

In place of the usual events at the state fair, a new website called Virtual Agriland at [ksagclassroom.org/virtual-agriland/](http://ksagclassroom.org/virtual-agriland/) connects Kansans to agriculture education.

Nancy Zenger-Beneda, executive director of Kansas Foundation for Agriculture in the Classroom (KFAC), helped develop the new web project with multiple partners.

"Every year, we hosted Agriland at the Kansas State Fair as an opportunity for youth and folks of all ages to experience agriculture in hands-on ways," Zenger-Beneda said. "We have highlights like milking a mechanical cow or simulating riding in a combine. It's an educational opportunity to get up close to the industry."

In the past, Kansas Agriland reached thousands with engaging ac-

<p><b>CORN</b></p>  <p>Virtual Tour: <a href="#">We Grow Corn Videos</a> Lesson Plans: <a href="#">Corn Lesson Library</a> Activity: <a href="#">Breakout Box</a> Book: <a href="#">We Grow Corn</a> by Sharan Thielen, Ph.D. Growth Stages: <a href="#">Corn</a> <a href="#">Kansas Kids Connection Magazine</a> Dig Deeper: <a href="#">Kansas Corn YouTube</a></p>	<p><b>COTTON</b></p>  <p>Virtual Tour: <a href="#">Cotton in the Classroom</a> Lesson Plan: <a href="#">King Cotton</a> Activity: <a href="#">Cotton Ball Activity</a> Book: <a href="#">Levi Strauss and Blue Jeans</a> Growth Stages: <a href="#">Cotton</a> <a href="#">Kansas Kids Connection Magazine</a> (coming soon) Dig Deeper: <a href="#">Cotton &amp; Sustainability</a></p>	<p><b>SORGHUM</b></p>  <p>Virtual Tour: <a href="#">Sorghum Tour</a> Lesson Plan: <a href="#">Poptastic Grain Sorghum</a> Activity: <a href="#">Sorghum Popcorn</a> Facts: <a href="#">Sorghum Facts</a> Growth Stages: <a href="#">Sorghum</a> <a href="#">Kansas Kids Connection Magazine</a> Dig Deeper: <a href="#">Cooking with Sorghum</a></p>
<p><b>SOYBEAN</b></p>  <p>Virtual Tour: <a href="#">Soy Farming Documentary</a> Lesson Plan: <a href="#">Grow it now, Drive it later</a> Activity: <a href="#">GM Soybean Kit</a> Facts: <a href="#">Soybeans and Biodiesel</a> Growth Stages: <a href="#">Soybean</a> <a href="#">Kansas Kids Connection Magazine</a> Dig Deeper: <a href="#">Journey of a Gene</a></p>	<p><b>SUNFLOWER</b></p>  <p>Virtual Tour: <a href="#">Sunflower Harvest</a> Activity: <a href="#">Paint your own Van Gogh Sunflower</a> Painting Growth Stages: <a href="#">Sunflower</a> <a href="#">Kansas Kids Connection Magazine</a></p>	<p><b>WHEAT</b></p>  <p>Lesson Plan: <a href="#">Wheat Genetics</a> Activity: <a href="#">Bread in a Bag</a> Growth Stages: <a href="#">Wheat</a> <a href="#">Kansas Kids Connection Magazine</a> Dig Deeper: <a href="#">National Festival of Breads Recipes</a></p>

tivities to immerse participants into the virtues and vitality of farming and ranching. Yet this year, the program went virtual to expand with even more reach.

"Even though we can't see you in person this year at the fair, we hope you will take advantage of these online resources to

use in your classroom or at home and learn a little about the agriculture in our great state," Zenger-Beneda said.

With the unfortunate cancellation of the fair, KFAC met with partners and found ways to innovate and excite others about agriculture.

"We wanted to offer op-

portunities this year more than ever, so we asked if there was a way to produce a virtual agriland instead of in-person settings," she said. "We knew some of our partners had virtual tours, so we worked with them and brainstormed ways to get it done."

### Background

For more than 30 years,

several ag organizations have worked together to provide education about Kansas agriculture through Agriland.

The virtual Agriland strives to continue to fulfill the group's purpose to educate on the significance agriculture plays in our everyday lives, emphasizing where our food, fiber

and fuel comes from and the best practices farmers implement for their land and animals each day.

"The target audience focuses on school-age students and their parents," Zenger-Beneda said. "KFAC shares partner resources, paired with our own, and works closely with many groups to form and provide this educational material. There's a lesson plan with hands-on activities, virtual tours, books and so much more."

There are a number of activities for teachers, parents, 4-H leaders or other educators to go through. The variety of resources can help anyone get an idea or experience on that particular commodity to have something to replace the in-person experience.

"We know it's not the same, but it has the potential to reach even more people," Zenger-Beneda said. "It's something that can continue to expand with more resources in the future. We'll keep it going on the backside."

The site breaks down elementary and secondary groups to narrow down lesson sections.

"We hope to be able to bring it all together in one place to make it easy to access," she said.

### Collaboration

More than a dozen part-

ners combine their efforts to make the virtual site possible including the Kansas Association of Conservation Districts, Kansas Beef, Kansas Corn, Kansas Cotton, Kansas Dairy, Kansas Department of Agriculture, Kansas Sorghum, Kansas Sunflower, Kansas Wheat, Midwest Dairy and Nutrients for Life Foundation.

• Cont. on page 3



## Giving Thanks

By Glenn Brunkow, Pottawatomie County farmer and rancher

Thanksgiving is just a week away, and in 2020 it may not seem like we have a lot to be thankful for. I admit that the last six months or so have been tough, and if you are watching the news it is hard to be very optimistic. However, I am really

excited about this Thanksgiving, and all of us in agriculture should be, too. Sure, we may not be able to have the large family reunions and dinners we are all used to. Let us not focus on the negative, instead we need to be reminded of all that we have and just how great our nation is. Never forget that we live in the greatest na-

## Fraudulent unemployment claims are up;

Before you pitch that unidentifiable piece of mail without opening it – that bland envelope with no return address – think again. It could be the first warning that something's amiss with your finances.

As COVID-19 swept through the country this year, ushering in the threat of illness, business closures and rising unemployment, it also led to a sharp increase in fraudulent unemployment claims linked to identity theft.

And Kansas isn't immune. The state is seeing a historic increase in reports of fraudulent unemployment claims, according to a Kansas Department of Labor statement. KDOL said as of Oct. 6, it had prevented 45,000 identity theft-related fraud-

ulent claims from being paid out.

KDOL said the fraudulent claims are filed using the names and Personally Identifiable Information (PII) of people who have not lost their jobs. Kansans are often unaware a claim has been filed on their behalf until they receive a "Notice of Determination" letter in the mail from KDOL, or until their employer receives a notice to verify the employee's status.

"A review of these fraudulent claims indicates that scammers are obtaining personal information through activities such as credit card data breaches, email phishing schemes or sophisticated cybersecurity attacks and using that information to

tion and our freedoms and rights are the envy of the rest of the world. That, my friends, all starts with us as farmers and ranchers, and we should be proud of that fact. More importantly, we need to celebrate it this Thanksgiving.

As farmers and ranchers, we are part of the foundation of our United States of America. The Pilgrims recognized that. Without an abundant, safe, wholesome food supply it is hard to build a nation, much less one as great as ours. In the middle of the worst pandemic most of us have ever seen, our grocery store shelves

illegally attempt to collect unemployment insurance," said Kansas acting secretary of labor Ryan Wright in the Oct. 6 statement.

There are steps Kansans can take to protect themselves, as well as ways to mitigate financial damage if fraud occurs, said K-State Research and Extension financial management specialist Elizabeth Kiss. She advises:

Keep track of your financial information. Whether you get paper copies or electronic copies of bank, credit card, and retirement account statements, monitor them closely and routinely. That way, you'll know the familiar from the unfamiliar.

Don't let statements or other financial documents

remained stocked. There might have been a few things that were harder to find, but consumers could still go into the store and buy food to sustain themselves and their families. I would dare even say they had plenty of variety.

Those of us in agriculture are so good at what we do we can function with less than two percent of the population involved in growing the food and fiber. That allows the other 98 percent of the population to grow our economy and provide services to give us the lifestyle we are all accustomed to. We do not just

build up in your mailbox or sit in a pile of unopened mail.

Open your mail. Don't assume something is junk mail or a donation solicitation and throw it away just because it's not from a recognizable or familiar source. It could contain something you should be aware of.

Practice what Kiss calls "good financial management hygiene." Don't leave statements lying around the house where a service worker or casual acquaintance might see them.

Destroy documents you don't need.

In this day of using cell phones and computers for conducting business online, people tend to check their postal mailboxes less frequently than they

used to, Kiss said. That's a mistake for a couple of reasons – it may delay notification about a problem with your credit; and in extreme cases, if the box is full, the postal service will stop delivering to it.

"If you find yourself in the unfortunate situation of recovering from someone's attempt to use your identity to make a fraudulent unemployment claim or any financial fraud, keep a record of what you've done to rectify the situation, when you've done it and who you've spoken with," Kiss said.

She recommends following steps outlined by the Federal Trade Commission on [www.Identity-Theft.gov](http://www.Identity-Theft.gov) if you've been a victim of identity theft of any kind, starting with

contacting companies where you know the fraud occurred.

In response to the increase in fraudulent claims in Kansas, KDOL created the [www.Report-Fraud.ks.gov](http://www.Report-Fraud.ks.gov) website so individuals and businesses can report suspected cases of identity theft related to an unemployment claim. Once a claim is reported on the site, the system generates a police report number and tips for victims to use to help mitigate the damage from the theft. The agency's fraud team can then prevent the fraudulent claims from being paid.

Just like monitoring your physical health, it's important to stay vigilant in monitoring your financial health, Kiss said.

## Gardeners may still have a few odd jobs left to do

Ward Upham has a message for home gardeners as the weather turns a bit colder: Don't rest now. At least not completely.

There's likely still some work to be done to

prep garden beds for next spring's bounty, and other odd jobs.

"This is the time of year when there are lots of materials available to compost," said Upham,

a horticulture expert at Kansas State University. "Remember that compost needs to be kept moist so that the bacteria and fungi can break down the raw materials."

In areas that have not received recent rains, he said, the compost pile may need to be wet down.

"Use a sprinkler to soak through the pile to the center," Upham said. "Then, allow the pile to drain. The goal is for the pile to remain moist, not water-logged. The edges will dry out the quickest and may need a light

sprinkling from time to time."

K-State Research and Extension has several publications on composting available online. Upham said there is also a video available online to see how it is done.

Some other odd jobs that Upham said need attention now include:

Prep soil for peas. Be

ready early in the spring for peas, which grow well at a soil temperature as low as 40 degrees F. Soils may be too wet to work early in the spring, so prepping the beds now allows gardeners to get an early start.

Work tree leaves into the garden. This should be done at least every two weeks to increase organic matter.

Begin rabbit protection now. Rabbits like to nibble on newly planted trees and shrubs through the winter. Install a barrier of at least two-foot-tall cylinders of one-inch mesh, chicken wire or similar material. Remove the barrier next spring so that it does not constrict the trunk.

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

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



This week is our wedding anniversary, and it is a big one. I started to say and important one, but all anniversaries are important, especially when you are as lucky as I am. This one is twenty-five years or a quarter of a century, amazing considering what Jennifer has put up with. Since this is a special anniversary, I think we will credit the heifer we bought as our present. Twenty-five years is cows right? Today is a typical example of why it defies all odds as to why she has stuck around.

Jennifer had the day off for Veterans Day. Most people who got the day off probably slept in, did something they were looking forward to and just generally enjoyed a leisurely day. Not my wife, we had planned on doing some Christmas shopping and getting ahead of the holiday rush – all good planning, except we have cows. We just got the cows out to cornstalks and the deer have been out in full force and wreaking havoc on my electric fence. Yesterday I was out most of the day running cows back in and fixing fence and then there were our weaned calves.

So, we started the day going out at daylight to see just how many holes our fence had in it. To our surprise we just had a few insulators off and no cows out. That took a good hour to check, but it was much better than the day before. Then we got to the weaned calves. For some reason or because of something, the weaned calves have gone through the fence three of the last four days. As Jennifer pointed out it is hard to hold them in with dental floss but that dental floss has worked in the past and why they flatten a different part each night is maddening.

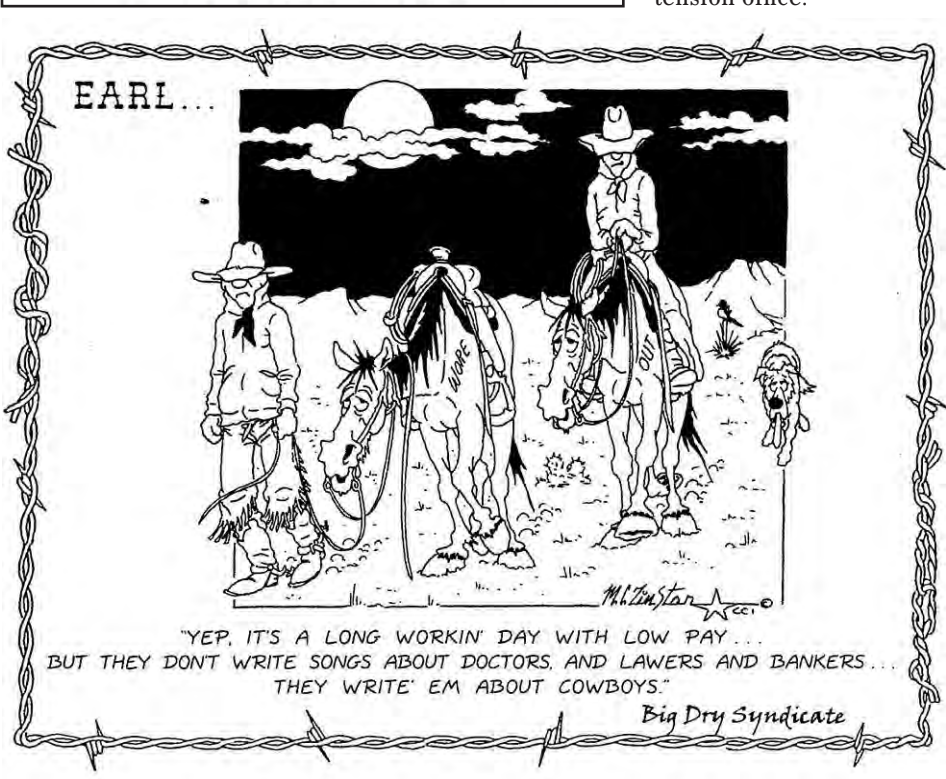
We got to them and about half were out and a new hole had appeared in the fence. With the patience of Job and the determination that would make a bulldog envious, Jennifer worked at the calves until she had them all in while I fed the ones that were still captured and made sure they didn't go anywhere. Then she watched the hole while I went for more panels and fixed a spot in the electric fence that the deer had made since we had checked it an hour earlier. This took us up until almost 10:30.

A quick count of the calves revealed that we did not have all of them. The rest were out somewhere in the pasture that surrounded the corrals. They would have to be found and captured but first we needed to go to Co-op and pick up the ton of feed I had not gotten to the day before because I was chasing cows. On top of that I needed to feed some hay and do some watering that did not get done either. It was obvious Christmas shopping was not going to happen today.

I did what any good husband with any kind of survival instinct would do and promised that we would postpone until Saturday. She said that would be okay, but I could also see that she was somewhat dubious that it would happen. The Good Lord willing and if the cows will just cooperate, we should be able to go. I know most of the guys out there are wondering why I am trying to go Christmas shopping. It is a tradition we started when we were first married and to be honest it is something I look forward to each year. We try to go during the week when the stores are not so crowded, and I enjoy the time we get to spend together with no cows or sheep around. Those moments are rare.

That is the life Jennifer has lived for the last twenty-five years. Most of her time off is spent chasing cows or sheep and not doing the hobbies or things I am sure she would rather be doing. She asked me once what I would have done if I had married a woman that did not do what she does. I told her I had not ever thought about it, but I am sure I would not have survived without her. The life of a farmer or rancher's wife is not easy, and it is filled with postponed dates, working vacations and disappointments. It's probably a miracle any of us in agriculture have stayed married and I have not even mentioned working cows or sheep together.

Looking back on the last twenty-five years makes me realize how lucky and blessed I am. It has not been easy, not even close. I cannot imagine life without her, nor do I want to. I do not know what the next twenty-five years will bring but I am sure they will be much better and less chaotic. I promise... unless the cows have different plans.



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# 2020 Farm Service Agency county committee elections under way

The U.S. Department of Agriculture (USDA) has mailed ballots for the Farm Service Agency (FSA) county committee elections to eligible farm-

ers and ranchers across the country. To be counted, ballots must be returned to the local FSA county office or postmarked by December 7.

"FSA has over 7,000 county committee members nationwide who serve their communities by providing input on our programs at the local level,"

said FSA Administrator Richard Fordyce. "We value their knowledge and judgment as decisions are made about the services we provide, including disaster and safety-net programs."

Each committee has three to 11 elected members who serve three-year terms of office, and at least one seat is up for election each year. Newly elected committee members will take office January 1, 2021. County committee members help FSA make important decisions on its commodity support programs, conservation programs, indemnity and disaster programs, and emergency programs and eligibility.

Producers must participate or cooperate in an FSA program to be eligible to vote in the county committee election. A cooperating producer is someone who has provided information about their farming or ranching operation(s) but may not have applied or received FSA program benefits. Also, producers who supervise and conduct the farming operations of an entire farm, but are not of legal voting age, may be eligible to vote.

Producers can find out if their local administrative area is up for election and if they are eligible to vote by contacting their

local FSA county office. Eligible voters who did not receive a ballot in the mail can request one from their local FSA county office. Visit [fsa.usda.gov/elections](http://fsa.usda.gov/elections) for more information.

All USDA Service Centers are open for business, including some that are open to visitors to conduct business in person by appointment only. All Service Center visitors wishing to conduct business with FSA, Natural Resources Conservation Service or any other Service Center agency should call ahead and schedule an appointment. Service Centers that are open for appointments will pre-screen visitors based on

health concerns or recent travel, and visitors must adhere to social distancing guidelines. Visitors are also required to wear a face covering during their appointment. Our program delivery staff will be in the office, and they will be working with our producers in the office, by phone and using online tools. More information can be found at [farmers.gov/coronavirus](http://farmers.gov/coronavirus).



## Virtual Agriland fills void to teach agriculture

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"I'm proud of the way our group has worked together to accomplish this educational mission," Zenger-Beneda said. "I think sometimes in agriculture various sectors often work independently, but together we have a stronger voice and can reach more people."

Navigating a consistent format for the virtual links help to ensure equity and support for viewers.

"We want to have a larger impact," Zenger-Beneda said. "It's a wonderful sense of accomplishment."

Long term, this site has potential to continue to grow with the consistent and abundant gathering of resources.

"It's the direction that KFAC wants to continue," she said. "We have plans to expand our website to include a lot more of the resources and activities from our partners to help everyone find what they need in one place and not have to search several sites."

### High Interest

The site appeals to so many including but not limited to traditional K-12 teachers and educators, as well as the many parents that are helping educate their children from home.

"One piece getting a lot of attention is the Journey 2050 virtual farm simulation," she said. "Using an inquiry based approach, students must make decisions and see their impact on society, environment and economy on a local and global scale."

Each level of the game has an accompanying lesson plan for the teachers to continue the learning in the classroom.

"This project is much larger than our virtual agriland, but we are excited to be a part of it."

In the short time Virtual Agriland has been live, it has already reached more than 1,200 page views with users averaging over two minutes on the page.

KFAC tracks the page and continues to adjust, innovate and add to the site.

"We plan to work with teachers to develop training and professional development workshops for teachers," Zenger-Beneda said. "We also plan to go into education programs at colleges who will soon be graduating to have materials for their first years. We also hope to do school visits soon to share great resources."

### Zenger-Beneda

After a career at Cloud County Community College as vice president for academic affairs, Zenger-Beneda serves as the leader of KFAC.

She is also a peer reviewer for the Higher Learning Commission and teacher of online graduate leadership studies at Fort Hay State University where she earned her educational specialist degree in educational leadership and administration.

She lives on a ranch near Belleville and has been actively involved in agriculture throughout her life.

"Grass & Grain readers know the importance, necessity and impact of what we do as we help teachers cover the value of the ag industry and its impact on our quality of life," Zenger-Beneda said.

For more, please visit: [ksagclassroom.org/virtual-agriland/](http://ksagclassroom.org/virtual-agriland/)

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# GRASS & GRAIN Our Daily Bread

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

## Crecia Reeves, Russell, Wins Weekly Grass & Grain Recipe Contest

Winner Crecia Reeves, Russell:  
**BAKED BEANS**

- 3 cans pork & beans
- 1 can Northern White beans
- 1 can Ranch-style Pinto beans w/jalapeno peppers
- 1/2 cup brown sugar
- 1/2 cup Original barbecue sauce
- 1/2 cup Hickory barbecue sauce
- 1 green pepper, chopped
- 1 onion, chopped
- 8 slices of uncooked bacon, chopped

Combine all ingredients and cook on low in crock-pot for 5 hours.

Rose Edwards, Stillwater, Oklahoma:  
**DIJON ROASTED POTATOES**

- 2 tablespoons olive oil
- 1 tablespoon Dijon mustard
- 1 clove garlic, minced
- 1/2 teaspoon thyme
- 12 teaspoon rosemary
- 1/4 teaspoon salt
- 1/4 teaspoon pepper
- 1 pound tiny new red potatoes, quartered

Preheat oven to 375 degrees. Grease a jelly roll pan. Stir all ingredients together except potatoes. Add potatoes and toss to coat. Transfer to baking pan. Roast turn-

ing once until golden brown and fork tender, about 35 minutes.

Darlene Thomas, Delphos:  
**NUTTY RICE KRISPIE COOKIES**

- 10- to 12-ounce package white baking chips
- 1/4 cup creamy peanut butter
- 1 cup miniature marshmallows
- 1 cup Rice Krispies
- 1 cup salted peanuts

In a large microwave-safe bowl melt baking chips; stir until smooth. Stir in peanut butter until blended.

Add marshmallows, Rice Krispies and peanuts. Drop by heaping tablespoonfuls onto waxed paper-lined baking sheet. Cool completely. Store in an air-tight container.

Kellee George, Shawnee:  
**PINEAPPLE FLUFF SALAD**

- 16-ounce tub cottage cheese
- 3-ounce package lemon gelatin
- 20-ounce can crushed pineapple in juice, drained
- 1 cup miniature marshmallows
- 1 cup Cool Whip

Mix cottage cheese and dry gelatin in a large bowl until blended. Add remaining ingredients and mix well. Refrigerate one hour.

Kimberly Edwards, Stillwater, Oklahoma:  
**ROASTED GARLIC CAULIFLOWER**

- 4-5 cups cauliflower florets
- 3 tablespoons olive oil
- 2 tablespoons minced garlic
- Salt & pepper to taste
- 1/3 cup shredded Parmesan cheese

Preheat oven to 450 degrees. Stir together olive oil and minced garlic; add cauliflower and toss to coat. Transfer to a greased foil-lined baking sheet and season with salt and pepper. Roast, stirring halfway through, until cauliflower is tender, about 25 minutes. Sprinkle with cheese. Broil until golden brown, 3-5 minutes.

Rose Edwards, Stillwater, Oklahoma:  
**PEANUT BUTTER PIE**

- 1 chocolate cookie store-bought pie crust
- 8-ounce package cream cheese
- 3/4 cup creamy peanut butter
- 1 cup powdered sugar
- 12-ounce container Cool Whip
- Chocolate syrup (for garnish)
- Coarsely chopped peanuts (for garnish)

Beat peanut butter

and cream cheese until light and fluffy. Beat in powdered sugar. Fold in a little of the Cool Whip at a time to make it smooth. Spoon filling into crust. Chill covered until firm, about 3 hours. Garnish with chocolate syrup drizzled over the top and top with coarsely chopped peanuts.

Kellee George, Shawnee:  
**S'MORES IN A MUG**

- 2 whole graham cracker rectangles, divided
- 20 miniature marshmallows
- 3 tablespoons chocolate chips

Spray the inside of a microwavable mug with cooking spray. Crush 1 cracker into bottom of mug and top with marshmallows and chips. Crush remaining cracker and sprinkle over chips. Microwave on high 30 seconds. Mixture will puff up inside mug. Stir to melt chocolate.

Kimberly Edwards, Stillwater, Oklahoma:  
**CAULIFLOWER CASSEROLE**

- 4 cups large cauliflower florets
- 4 ounces cream cheese
- 1/3 cup milk
- 1/3 cup buffalo wing sauce
- 1/2 teaspoon garlic powder
- 4 celery stalks, chopped
- 1 1/2 cups shredded sharp Cheddar cheese, divided

Heat oven 400 degrees. Cook cauliflower in pan of boiling water for 5 minutes; drain well. Microwave cream cheese on high 30 seconds. Add milk and stir until cream cheese is completely melted and mixture is well blended. Stir in wing sauce and garlic powder. Add cauliflower, celery and 3/4 cup Cheddar cheese; mix lightly. Spoon into 8-inch square baking dish sprayed with cooking spray. Top with remaining cheese. Bake 20 minutes or until heated through.

## Plan Ahead To Ease Stress, Keep Holiday Foods Safe

MANHATTAN – While most would agree that 2020 has been stressful, Karen Blakeslee says holiday meals should not add to the anxiety.

Blakeslee, a food safety specialist at Kansas State University, notes the lead-up to the holiday season is a good time to take a deep breath and relax – then, make a plan to keep it that way.

“Make a list to plan your meal,” Blakeslee said. “Shop for food now to have it available and to avoid the shopping rush. You can also prepare and freeze foods ahead to spread out food preparation time.”

When done correctly, many foods – such as meat – can be frozen to extend their shelf life. Some foods can be cooked directly from the freezer.

“For best results, use freezer safe packaging designated for freezing,” Blakeslee said. “Remove as much air from the package as possible to protect food quality.”

She added that the freezer should be kept at 0 degrees F or lower. Guidelines for many common foods are available online from K-State Research and Extension.

When ready to use frozen foods, Blakeslee said there are three options for thawing:

\* **Refrigerator.** This takes the longest time and advance planning. Large items, like a frozen turkey, may require 24 hours for every five pounds of weight.

\* **Microwave.** Do this when you intend to use or cook the food immediately after thawing.

\* **Cold running water.** Cold tap water is useful when the food can thaw in less than two hours. Cook food immediately after thawing.

If not planning to cook and freeze foods ahead of time, make a schedule for when you will prepare menu items. If you only have one oven, use other ways to cook foods such as an electric roaster, an electric multi-cooker, or a slow cooker.

“Think about sharing food preparation by having family members help,” Blakeslee said. “This will ease the stress and give more family time at home.”

Blakeslee, who also is coordinator of K-State’s Rapid Response Center for food science, publishes a monthly newsletter that addresses many food safety topics. She also maintains a website that provides guidelines for safe holiday meals.

This year, she’s also advising folks to follow local guidelines on gatherings, due to the COVID-19 pandemic. “You don’t want to give the gift of any illness,” she said.

Links used in this story: Guidelines for freezing food, [www.rrc.k-state.edu/preservation/freezing.html](http://www.rrc.k-state.edu/preservation/freezing.html) Rapid Response Center for food science, [www.rrc.ksu.edu](http://www.rrc.ksu.edu) Food safety for holiday meals, [www.ks-re.k-state.edu/foodsafety/topics/holiday.html](http://www.ks-re.k-state.edu/foodsafety/topics/holiday.html)

### Food Safety’s Core Concepts

K-State food safety specialist Karen Blakeslee urges consumers to remember the four key concepts for safe and healthy food during the holidays:

\* **Clean.** Wash your hands and clean as you go to keep countertops and equipment clean through meal preparation.

\* **Separate** raw foods (such as meat) from ready-to-eat foods. Clean or use separate utensils when going from raw foods to ready-to-eat foods.

\* **Cook** foods to proper temperatures for doneness. Three temperatures to remember include 145 degrees F for steaks roasts and chops; 160 F for ground meat; and 165 F for poultry.

\* **Chill** foods promptly to reduce the growth of bacteria. Keep hot foods hot and cold foods cold.

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MANHATTAN – A recent survey by United States-based company OnePoll indicates that 70% of Americans expect to celebrate Thanksgiving differently this year.

That includes the number of people eating dinner together, and where they eat it. OnePoll reports that 30% of Americans plan to host only their immediate family this year – up from 18% doing so in 2019 – while food giant Butterball notes that one-third of U.S. families are considering serving dinner outdoors.

Americans are not ready to give up traditional foods, but that may require some pre-Thanksgiving planning to adjust the size of the meal, according to Kansas State University nutrition specialist Sandy Procter.

“When you think about the traditional dishes that mean so much when you get together, you can scale those up or down,” she said. “One of my classic recipes is the stuffing. I’m very careful not to stuff the turkey with it because of the food safety concerns, so I make it in a crock pot, which works really well, because then I have more oven space.”

“There are a variety of sizes of crock pots. I can certainly decrease the amount of ingredients but still keep a favorite food on the table.”

Procter noted that left-

overs – which generally are preferred fare in the days following the holiday – won’t necessarily be eliminated if you cook less. “But instead we will leftover from a meal of four, instead of a meal for 16,” she said.

Another option, Procter said, is to cook usual quantities and make a careful plan to freeze meals ahead.

“What I like to do when I have leftovers is leave them in a variety of forms so I can pull them from the freezer,” Procter said. “I might have some slices or cubes (of turkey, for example) that can be used for soup, stew, pot pie or mixed dishes.”

Procter said she has developed another idea to help her own family get in the spirit of Thanksgiving.

“Instead of trying really hard to cut down the recipes in my head, I am considering purchasing the volume of canned and dried ingredients that I would normally buy, keeping what I need for my small meal, then contributing the rest to a food pantry,” she said.

Nationally, statistics indicate that nearly 60% of U.S. food pantries are short on needed items right now. Procter noted data that indicates 8 billion meals will be needed during the upcoming holiday season.

Because of social distancing, people likely

won’t be getting together in large groups, so many community meals may be cancelled – leaving it up to food pantries to provide food for needy families.

Procter encouraged consumers to contact the pantry in their community to learn about local needs. She also suggested buying healthy canned goods – such as fruit packed in juice or light syrup, or low-sodium vegetables – for the local pantry. Cash contributions can help pantries supply such perishable foods as produce and milk, she said.

“This may not be the same Thanksgiving dinner with people around your table that we all are used to,” Procter said, “but we can help someone else to have a better holiday experience.”

More information on guidelines for safe holiday gatherings is available from the U.S. Centers for Disease Control and Prevention. More tips for healthy eating also are available online from K-State Research and Extension.

Links used in this story: OnePoll, [www.onepoll.us](http://www.onepoll.us)

Butterball, [www.butterball.com](http://www.butterball.com)

U.S. Centers for Disease Control and Prevention, [www.cdc.gov](http://www.cdc.gov)

K-State’s Department of Food, Nutrition, Dietetics and Health, [www.hhs.k-state.edu/fndh](http://www.hhs.k-state.edu/fndh)



By Ashleigh Krispense  
Spicy Hot Chocolate

This is a simple recipe for some pretty powerful hot chocolate! It’s very rich, somewhat thick (thanks to the chocolate kisses that found their way into the pot!), and packs a little punch.

1/2 cup cocoa  
1/2 cup sugar  
1/8 teaspoon cayenne  
1 teaspoon cinnamon  
1 teaspoon vanilla  
1/8 teaspoon ground cloves  
Slightest dash of ground black pepper  
3 1/2 cups milk  
7 chocolate kisses, unwrapped



In a medium saucepan, whisk together all of the ingredients except for the milk and chocolate kisses.



Slowly pour in a cup of milk and continue stirring over medium-low heat.



Once mixed thoroughly, stir in another cup of milk, and then repeat with the last cup.

Continue to stir and heat the mixture and drop in the chocolate kisses.



Stir until they’re melted smooth. Let it finish heating and then serve with your favorite toppings (whipped cream, marshmallows, sprinkles, etc. Enjoy!

Ashleigh is a freelance writer and the gal behind the website, *Prairie Gal Cookin'* ([www.prairiegalcookin.com](http://www.prairiegalcookin.com)), where she shares step-by-step recipes and stories from the farm in Kansas. Follow PGC online or like it on Facebook for more recipes and rambblings!

### Holiday Cooking: The Potlucks Are Coming

By Julie Smith, Family Resource Management & Entrepreneurship Agent, Wildcat Extension District

The holidays are here and special dinners are on the horizon. From family gatherings to office celebrations, tis the season for the always engaging potluck dinner. You might have a standard dish your friends and family count on you to bring or you may find yourself wanting to try a new recipe this holiday season. Either way, don’t let “extra” holiday cooking break your budget.

Here are some tips to keep your food costs in line no matter how many holiday dinners are in your future.

1. Stick to your list. Plan your grocery trip based on what you need for your

dish. While it’s okay to pick up necessary staples, don’t use the holidays as an excuse for impulse spending at the grocery store.

2. Buy in bulk. If you are taking cheesy potatoes to five different holiday gatherings, buying the needed shelf-stable ingredients in bulk may save you some money.

3. Watch sales, compare prices, find coupons. Digital coupons have made saving money easier and less time consuming. From larger stores in metro markets to the local Dollar General in rural areas, using coupons is as easy as selecting options in an app and typing phone number at checkout.

4. Savor the leftovers! If your dish isn’t devoured at the party, take it home and

feed to your family at their next meal.

It’s been a rough year. As the holidays approach, celebrate with your family and friends but remember to be safe. Always practice food safety, socially distance when possible and enjoy each other as we navigate this season together.

For more information, contact Julie Smith at [juliesmith@ksu.edu](mailto:juliesmith@ksu.edu) or by calling 620-238-0704.

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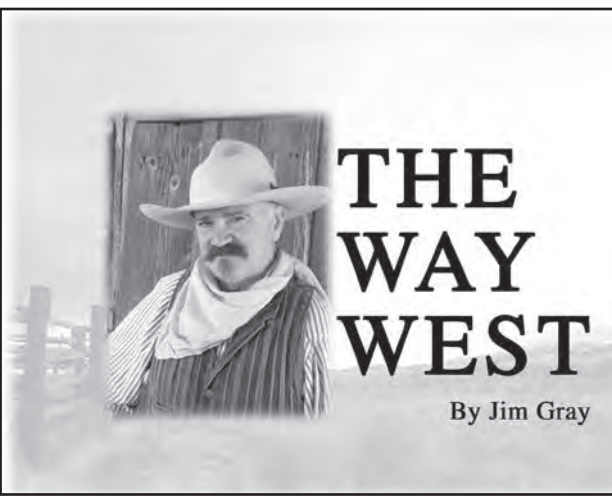
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# THE WAY WEST

By Jim Gray

## A Stormy Life

Early Kansas was filled with wild characters that left quite a legacy. Many of them may not have been the kind of person that you would want for a friend or neighbor, but they sure make Kansas history interesting! Dr. Samuel Ashmore was said to be one of the best physicians in Kansas, but when he was drinking he was an absolute terror.

Samuel Ashmore was born March 10, 1827, at Zanesville, Ohio. After receiving a common school

education, he attended the Medical School of the Western Reserve College at Cleveland, Ohio. The school was strongly associated with the abolition movement. Frederick Douglass gave the commencement speech for Ashmore's graduating class in 1854.

Ashmore came to Kansas soon after, settling at Holton. Despite the abolitionist influence at his alma mater, Dr. Ashmore, being a northern Democrat, supported the pro-slavery position. In

1860 he moved to Indianola, Kansas, a few miles north of the Kansas River from Topeka. At that time Indianola was the leading town with a lively business climate on the military trail between Fort Leavenworth and Fort Riley. Indianola was just the place for an energetic, adventurous man.

The limitations of this column do not allow for all the drunken, gun-wielding adventures of the good doctor while living at Indianola. Surprisingly, many of the men he fought with at that time became his companions in later days.

Many of Indianola's Southern sympathizers turned their allegiance to the Union, as northern Democrats joined the new Republican party when the Civil War broke out. Dr. Ashmore joined the 15th Kansas Cavalry, Company F, eventually serving as Assistant Surgeon for the regiment. At the close of the war he returned to Kansas with his comrades.

Ashmore moved to North Topeka and by 1868 married Mary McPherson Sheppo, a Pottawatomie woman, previously married to a trader from Canada. Her children used the name Sheppard. By 1869,

Ashmore conceived the idea of producing a tour of Pottawatomie Indians to eastern cities. His own life on the Kansas frontier led him to believe that the folks back east would greatly appreciate a glimpse of life on the Kansas prairie. He and two partners organized a traveling show made up of local Pottawatomie Indians.

By the spring of 1870 the troupe had traveled by train and unloaded just before entering the appointed town. From the "Indian camp" Ashmore went to town to rent horses and promote the show. Once mounted on horses the Indians rode through town in a "Grand Parade." The show went well with each performance until they reached Indianapolis, Indiana, where Dr. Ashmore went on a drinking spree that ended the show.

His drunken spree included shooting up the town, and on his return to North Topeka they became more frequent. He was celebrating the recent re-election of President U. S. Grant on Wednesday, November 6, 1872, when he shot and killed his wife at their home. Dr. Ashmore resisted all attempts at

arrest until Dr. Milligan walked directly toward him. In a violent scuffle he was disarmed and taken to jail.

While being held for trial he and five other men sawed through the bars and escaped the Shawnee County Jail on October 25, 1873. He was taken into custody in Indian Territory by lawmen from Denison, Texas. A reward of five hundred dollars was paid to the officers.

Ashmore was supposedly placed in a more secure jail cell. However, on the evening of March 3, 1874, several prisoners rushed the jailer and Ashmore was once again on the loose. Traveling with E. B. Blair, a counterfeiter, the two finally arrived in Matamoros, Mexico, after a circuitous route through several southern states. The fugitives made the mistake of "falling in" with another fugitive wanted for murder. Ashmore and Blair were exposed and back in jail at Topeka by early July.

Dr. Ashmore was found guilty in December of 1874. After a motion for a new trial was overturned in January, 1875, he was sentenced to the Kansas State Penitentiary. The words

then pronounced by the judge left no doubt that at a time appointed by the governor, "You be hung by the neck until you are dead; and may God have mercy upon your soul."

For the next eight years, Dr. Ashmore languished in prison. In the final days of his administration Governor St. John secured a promise from Dr. Ashmore that alcohol would never again pass his lips. Citing a record of good behavior and his apparent reform, Dr. Ashmore received a pardon.

He returned to North Topeka and amazingly resumed his practice. On his death, January 19, 1909, the *Topeka State Journal* noted that "...his past has been forgotten by all save the oldest citizens." His stormy life had the makings of a thrilling novel with the many twists and turns verifying that "truth is indeed stranger than fiction" on The Way West.

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

## Take holiday photos at Pioneer Bluffs

Pioneer Bluffs will be decorated for Christmas on the Friday and Saturday after Thanksgiving. Community members are invited to visit, explore, and take holiday photos at the historic Flint Hills ranch headquarters.

From 10:00 a.m. to 4:00 p.m., November 27 and 28, the grounds of Pioneer Bluffs will be open; visitors will discover rustic holiday backdrops ideal for photos in an authentic outdoor setting.

"Our elves, also known as volunteers, are creative, always thinking of new ways to share this place they love with our community," said Lynn Smith, executive director. "They have been busy designing different décor to provide



a framework for unique family photos."

"This year, it is especially important to capture images of our lives and send greetings to those we miss," continued Smith. "For generations to come, snapshots of what you did during COVID will be important to your family's heritage. Try posing for a few fun, serious, crazy, or

reflective pictures. This is the year to step outside normal traditions and find joy in new and different ways."

Photographers may want to bring a selfie stick or tripod. Everyone is asked to maintain a distance of at least six feet from others.

Picture taking is not required. Visitors are

welcome to simply take a walk after the Thanksgiving meal, enjoy the historic site, experience the self-guided tour, or hike along Crocker Creek. Pioneer Bluffs is open every day during daylight hours (including holidays), there is no charge to visit.

The self-guided tour at Pioneer Bluffs has been made possible by a grant from the Greater Emporia Area Disaster Relief Fund.

If inclement weather, the holiday photo backdrops will be cancelled. Weather plans will be posted on the Pioneer Bluffs Facebook page and emailed to the E-News group.

To sign up for the Pioneer Bluffs E-News or for more information, contact Lynn Smith at [lynn@pioneerbluffs.org](mailto:lynn@pioneerbluffs.org) or (620) 753-3484.

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# Nebraska farmer wins the 2020 Syngenta #RootedinAg Contest

Hannah Borg, 22, of Wakefield, Nebraska, is the 2020 Syngenta #RootedinAg Contest grand prizewinner. In her winning video entry, Borg pays tribute to the matriarch of their sixth-generation family farm – her grandmother, Lois Borg.

Borg is the seventh #RootedinAg Contest winner. She was chosen from a hearty pool of applicants and two other strong finalists with her testimony that moved both online voters and a panel of judges.

The number of submissions this year was one of the largest – and one of the most difficult to rank, said Pam Caraway, Syngenta marketing communications lead.

“Thank you to everybody who took the time to share their story. Each submission was a delight to read or watch. Each story gives us confidence in the future of agriculture, thanks to those who take the time to teach us,” Caraway said.

This annual competition from Syngenta invites growers and other ag industry professionals across the nation to describe the person who most nourished their agricultural roots for their submission entry.

In a heartwarming video entry, Borg pays tribute to the matriarch of their sixth-generation family farm — her 86-year-old grandmother, Lois Borg. “Grandma is



22-year-old Hannah Borg of Wakefield, Neb. is shown with her grandmother Lois Borg, the inspiration for her video entry in Syngenta’s #RootedinAg contest.

the perfect mix of grace and grit,” Borg said. “I’ve always admired how she lives her life and her role in our family. She always knows what’s happening on the farm and never turns down the opportunity to ride along on any kind of trip. She has passed down many stories to me and inspires me every day.”

As the grand prizewinner, she receives \$500, a

professional photoshoot with her mentor and a \$1,000 donation to her favorite local civic organization: the Wakefield Heritage Organization, a group in her community dedicated to preserving and maintaining the local history of her hometown.

“I chose this organization because preserving our community’s heritage is important to me as the next generation to carry it on,” Borg said.

In addition to being part of her family farm, Borg has worked for the Rural Radio Network/880 KRVN as a part-time farm broadcaster; a communications intern for FarmHer in Des Moines, Iowa; and an intern for the National FFA Organization.

“Every year, we have the privilege of hearing the stories of people in the ag community whose peers, mentors and family members have inspired them,” Caraway said. “And every year, we learn something new about this community, which has engrained itself within all of us – and become a part of our DNA. Hannah’s video about her grandma resonates with everyone who hears her story.”

To learn more of Borg’s story and the #RootedinAg Contest or to read other ag news stories, go to [www.syngentathrive.com](http://www.syngentathrive.com).

## Veterans’ strengths positively contribute to NBAF’s unified culture

More than 75 veterans continue serving their country by protecting the U.S. against animal diseases that threaten the nation’s food supply, agricultural economy and public health at the National Bio and Agro-Defense Facility, or NBAF.

Designed to replace the aging Plum Island Animal Disease Center in New York, NBAF is a high-containment animal disease facility being built with biosafety level-2, -3, and -4 capabilities in Manhattan. Part of the U.S. Department of Agriculture, NBAF has successfully onboarded about half of the facility’s current workforce from veteran candidates.

“Veterans have sacrificed so much in defense of our nation and in the pro-

cess have developed many of the skills applicable to work at the nation’s premier large animal disease research facility,” said Dr. Ken Burton, NBAF coordinator. “These individuals come to us with outstanding work ethic, moral fiber and the passion for serving the greater good.”

According to an internal demographic survey completed in August, 52 percent of the 102 respondents reported they are veterans. Of those, 32 percent said they retired with more than 20 years of service — and six are still serving as reservists. The survey had a 60 percent response rate.

“I found my place of purpose in the Army and I will love it forever,” said Barnell Herron Jr., NBAF management analyst who

served the U.S. Army for 29 years. “NBAF provided a new challenge of being part of something from the inception that is critical for the defense of our nation and the world. What greater opportunity to be part of something that is historic and provides a new chapter in my life?”

Prior to onboarding at NBAF, several of the veterans were working at Fort Riley, home of the U.S. Army’s 1st Infantry Division and about 16 miles southwest of Manhattan.

“Fort Riley has and will continue to be a source for future employees,” said Kraig Buffington, NBAF engineering technician who served the U.S. Army for 20 years. “If veterans would like to continue to serve the citizens of this country, NBAF would be a

great place to do so. They might be surprised to find out how much their accomplishments in the military translate to success in civilian positions.”

Since NBAF will specialize in diagnostics, vaccine development and research of the world’s highest-consequence animal diseases, security is a top priority. Many of the veterans hired either have direct experience with high security operations or are deeply passionate about it.

“I wanted to serve the public again and was looking to be part of a team whose mission was significant and meaningful,” said David Dinsmore, who served 30 years in the U.S. Army and is now part of NBAF’s Training and Document Control Unit. “The skills I developed in the military — critical thinking, adaptability, planning, communication and meeting deadlines — are important in the operational

standup of a new facility.”

Led by Director Dr. Alfonso Clavijo, NBAF is creating a unified culture, which acknowledges mandates from two USDA agencies — the Agricultural Research Service, or ARS, and the Animal and Plant Health Inspection Service, or APHIS. Employees from both agencies are working collectively to operate as one NBAF team, which is expected to have 400 total employees by the time the facility is operational. Vet-

erans’ shared understanding of how multiple parts of a team influence other parts has helped form the ingrained team mindset.

“Success is typically a result of many diverse hands and minds working together toward a common goal,” Clavijo said. “All our units are pulling together with the same goal in mind — to stand up NBAF operational capabilities and be ready to support the facility’s scientific activities.”

## K-State cattle experts advise producers to prepare water systems for winter

By Lisa Moser

There is nothing like a refreshing drink of water to hydrate one’s body, but what happens when the only available water is frozen?

As beef producers manage the herd in dropping temperatures this winter, Kansas State University Beef Cattle Institute experts stress that now is the time to make sure the watering systems are set up for full-time access to clean, drinkable water.

“Cattle will typically drink about one gallon of water per day for every 100 pounds of weight they maintain,” said veterinarian and BCI director Brad White on a recent Cattle Chat podcast.

Veterinarian Bob Larson added that lactating cows will consume more water than dry cows.

“Water is the most important nutrient for overall cattle health and production,” Larson said. He added that it is important for cattle to have access to clean water at all times.

The experts said now is the time to consider the

size of the tank needed to keep the water flowing ice-free this winter. For some, that may mean investing in frost-free watering systems.

“Investing in a freeze-proof waterer can be expensive but the savings in time and labor of breaking ice may be well worth it,” White said. “The cattle’s consumption of water will also increase if the water is free-flowing at all times.”

Even with frost-free systems, the veterinarians

agreed that cattle producers need to clean them periodically.

“Cattle waterers can get hay debris and other saliva and dirt in them throughout the winter, so be sure to clean them often,” White said.

And if cattle are drinking water from a well, White advised having the water tested periodically to make sure it is safe.

To hear the full discussion on winter water resources, listen to the BCI Cattle Chat podcast.

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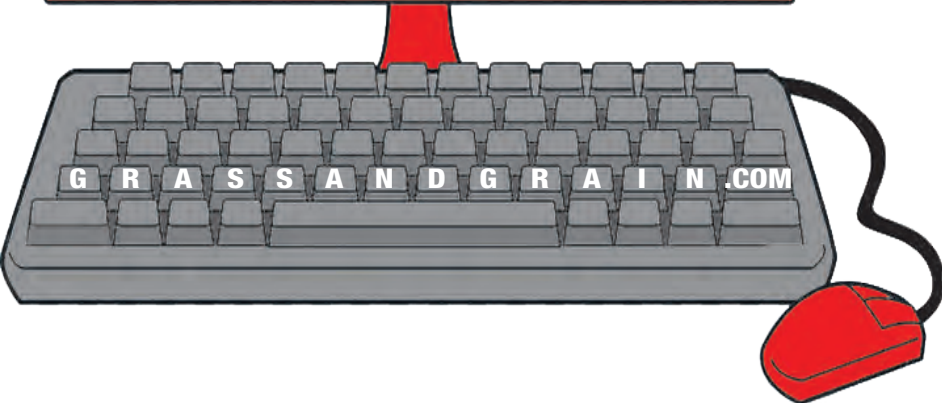
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When news outlets began touting Kamala Harris as the first person of color who would serve as vice president, scholars scrambled to correct the record. The first person of color to serve in that position was Westerner Charles Curtis. He was the first vice president born west of the Mississippi River, seeing the light of day on the Half-Breed Lands on the north side of the Kaw

River at Topeka on January 25, 1860. Curtis served as vice president in the Hoover administration, from 1929-1933. The two did not get along and the running joke was that Curtis would have to buy a ticket on a tour to get into the White House. It's a shame. Hoover might have benefitted from Curtis's counsel. The administration is remembered for the Stock Market Crash of 1929 and

the subsequent Depression. Curtis's response, "I've seen worse. We'll get through it." He was a straight-forward, no-nonsense politician. He remembered the folks at home, their names, their kids, their dogs. He knew what mattered to them. Though elected from Kansas, his extensive connections (both family and business) in the Sooner State led him to be called, "The Third Senator from Oklahoma." As a young man, growing up and making his way in Topeka, he was widely called "Injun Charley." He was matter-of-fact about his American Indian ancestry, but acknowledged he was forced to choose whether or not he would be an Indian or a white man. Curtis's formative years were fraught with violence. Bleeding Kansas,

the Civil War, the Plains Indian Wars - his family was front and center in the conflict. His father joined right after Quantrill burned Lawrence. Kansas was out for blood and Captain Jack Curtis was the perfect candidate to exact vengeance. He was a "Redleg" (Remember *The Outlaw Josie Wales?*). Essentially, the Redlegs, so called because of their distinctive red leggings, were the special forces of the Jayhawkers, Kansas units who looted and plundered in western Missouri. Captain Jack faced court martial for war crimes (he executed his prisoners) but was pardoned after only a month of a year's sentence at hard labor. Charley Curtis was only a boy of eight when the Cheyenne, led by the formidable Dog Soldiers, attacked the Kaw Reservation at Council Grove.

Curtis accompanied the messenger on the trek to Topeka to seek help from the governor. His grandmothers decided he should move back to the state capitol. He was a successful jockey as a young teenager, managed at times by his Grandfather Curtis. But at 13, he described himself as adrift. The Kaw were being removed to the Indian Nations. His cousins wanted him to go, too, and he wanted to go. He was camped with the tribe when his Grandmother Pappan came to him. Grandmother Pappan told him she loved him above all else, "he the son of her dead daughter." She told him that if he came to the reservation he would never amount to anything and that he should go with his white family and get an education. Charley Curtis said everything he ever achieved he owed that woman. He read law with a local attorney, passed the bar, and was elected Shawnee County Attorney at the age of 24. As such, he prosecuted Boston Corbett, the slayer of John Wilkes Booth, when the deranged Corbett held the Kansas

State Legislature at gunpoint. He was elected to Congress, taking his half-sister Dolly with him as his secretary. She was only the second woman to serve as secretary at that point. He was elected to the Senate and became the first Republican Majority Leader. He championed women's rights, having been surrounded by strong women his entire life. He advocated citizenship and assimilation for the Native American because he saw that as the only way to survive. He led a remarkable life and deserves to be remembered for his many firsts, for never giving up, and for his devotion to family in a world that often would have you forsake them. For a time, he was Injun Charley. Then he became, Our Charley. Deb Goodrich is the host of the *Around Kansas TV Show* and the *Garvey Texas Foundation Historian in Residence* at the *Fort Wallace Museum*. She chairs the *Santa Fe Trail 200*, the bicentennial of that historic trail. Contact her at author.debgoodrich@gmail.com.

# Soil sample your forage stands

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

It's been said that a good time to get a soil sample from a forage stand is any time. While I agree with that for the most part, there are some compelling reasons why fall is a better time.

For application planning purposes, knowing soil test levels now can help us best manage application needs. This is especially true of lime applications, which typically require some time to take effect after application.

From a budgetary standpoint, it can help with forward planning and taking advantage of pricing opportunities. Under application can hurt production that may translate to other expenses down the road. Over application isn't economically or environmentally sustainable. The only way to know for sure what is needed is via a soil test.

For best results, sample every three to four years. Use a soil probe when possible to get an accurate sample from top to bottom (a spade or shovel tends to result in sample bias based on a sample that is wide at the surface and comes to a point at the bottom). Probes are available for check out from all three District Offices.

Samples should represent a uniform area and be from forty acres or less when feasible. If field variability exists, sampling on smaller areas may be of value. Collect 15 to 20 cores (subsamples) to make up a representative composite sample. If after pH only, sample to a depth of three to four inches. Samples to determine P and K levels are best done to a six-inch depth.

For more information on sampling forage stands, contact any of our District Offices or e-mail me at dhallaue@ksu.edu. In addition to probes available for checkout, Offices also have soil test bags for submitting samples. Some offices also offer cost-share programs in collaboration with local Conservation Districts. Consult individual offices for details.

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## Researchers test sorghum as option for grain-based ethanol production

Kansas State University researchers are tracking the nitrous oxide emissions associated with grain sorghum production, and its effect on the carbon intensity score - a measure of how much carbon and carbon dioxide equivalent it takes to produce a bushel of grain.

The Intergovernmental Panel on Climate Change (IPCC), a United Nations body that assesses the science related to climate change, has previously reported that direct emissions from sorghum production - derived from the amount of nitrogen fertilizer that is put out - is estimated at 1%.

Peter Tomlinson, an associate professor in K-State's Department of Agronomy, explains the current progress of the university's research. "So far," he said, "the results have been very positive. What we're seeing in the field research is that we are about .3% to .4% (direct emissions) depending on location."

The researchers say the early results are encouraging for producers who are interested in providing sorghum for ethanol production.

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# 2020 4-H YOUTH SHOWCASE



Carson Rinkes, 10, Straight Arrows, Jackson County, is shown with his pigs. He took both a market pig, and a breeding gilt this year.



Drake Mellies, 12, North Jackson Jets, Jackson County, is shown with his pigs at the county fair. "I took both a market pig and a breeding gilt. We plan to breed the gilt this year for 4-H pigs next year," said Drake.



Pictured above is Adam Mellies, 10, North Jackson Jets, Jackson County. He is shown with both his pigs, a breeding gilt and a market pig. "This was my second year in the swine project and I really like it. I can't wait for next year," Adam said.



Ryan Geer is a six-year member of the Washington Headliners and has been in the photography project all six years. He received Reserve Grand Champion Black and White photo from this year's Clay County Fair. Featured is an abandoned bridge located five miles north of Clay Center, in Hayes Township.



Emily Mellies, 8, North Jackson Jets, Jackson County, Kansas is pictured with her bucket calf Stella. "It's my 1st year in 4-H and in the bucket calf class," she said. "I really enjoyed it and can't wait to take Stella back next year."



Landon Flinn, age 9, participated in the Pottawatomie County 4-H horse show. Landon is a member of the Kaw Valley 4-H club in Pottawattamie County. This year, he participated in the 4-H horse show and entered multiple events, including all of the speed events. He won reserve grand champion in the speed events for the juniors. Here he is with his horse project, Dash, a Quarter Horse/pony cross. Landon is the son of Steve and Amy Flinn, Saint George.

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- cardboard tube • 5" x 6" brown paper rectangle
- (3) 1" x 12" tissue paper strips of different colors • construction paper scraps
- 15" length of yarn • scissors • glue • tape

#### Steps:

- 1: Glue the brown construction paper piece atop the cardboard tube.
- 2: Cut three feathers from the construction paper scraps and glue them on the tube's back, near the top.
- 3: Use scrap paper to add facial details.
- 4: Tape the three tissue paper trips (tail feathers) inside the bottom of the tube.
- 5: Tape the yarn to the inside of the tube to make a hanger.



# ISU researchers to investigate ag supply chain resiliency

A new grant will allow Iowa State University (ISU) researchers to study how the COVID-19 pandemic has impacted the U.S. food supply chain with the goal of finding short- and long-term solutions to increase resiliency against future disruption, a release from the university says.

The pandemic led to major disruptions in several agricultural industries, says Keri Jacobs, an associate professor of economics at ISU. "These disruptions were unique because we didn't experience a shock to the supply of agricultural products—it was largely a shock to our processing capacity through reduced labor," she says.

The lack of labor was especially problematic in agricultural industries, Jacobs says, as processing capacity, and the entire system was built based on known biological processes for products like eggs, milk, beef and pork.

As the pandemic first spread, restaurants, bars, and schools closed, quickly changing consumers' food consumption habits and needs, which created further disruptions in the supply chain. "Plants couldn't make the switch quickly enough to meet the change in demand and had inventory prepared for a market that no longer existed," Jacobs says in the release.

As consumers stayed home, the need for gasoline, and therefore ethanol, was driven down, which had consequences that fed back into food industries. "Carbon dioxide and distillers grains are by-products in ethanol production and are both important inputs in other supply chains," Jacobs says in the release. She notes that distillers grains are used to feed livestock, and carbon dioxide is a preservative and key input in packaged liquid products. "When

ethanol demand tanked, so did the production of those two by-products. So, in this case, the disruptions seeped into other food processing sectors," she says.

To understand how and why COVID-19 disrupted the agricultural supply chain in the ways it did, and prevent it from happening in the future, Jacobs is leading a newly funded USDA study. The study, "Agricultural Supply Chain Disruptions: Costs and Mitigation Strategies to Enhance Resiliency of Ag Supply Chains" aims to enhance the resiliency of the beef, pork, dairy, and egg supply chains in the Midwest

in the face of future disruptions and was recently awarded a two-year, \$458,000 National Institute of Food and Agriculture COVID-19 Rapid Response Program grant. The grant is part of more than \$14 million in USDA funding announced to help study the most critical issues facing consumers during the pandemic, the release says.

The project research team also includes five other Iowa State faculty: John Crespi, Chad Hart and Dermot Hayes, professors of economics; Bobby Martens, associate professor of supply chain management; and Lee Schulz, associate professor of eco-

nomics.

"Our short-term focus is on developing data visualization tools and forensic price- and volume-based decision tools," Jacobs says. The visualization tools will help agricultural producers and firms recognize and adapt to stressors in the supply chain system, such as future COVID-19 outbreaks. "We don't know whether there will be another type of disruption similar to COVID-19, but the COVID-19 disruptions have the potential to flare up again this fall and winter or be compounded with flu season," she says in the release.

The long-term goal of the study is to explore

the risk-return tradeoff in supply system changes to improve future resiliency during disruptions.

"We will, among other things, explore potential risk-mitigating strategies that firms in the beef, pork, egg, and dairy supply chains can use to reduce the impact of the current pandemic or future similar disruptions," Jacobs says in the release. "Fundamentally, this disruption made it very apparent where we can benefit from better information, and that is what our project aims to do—generate more informed and synthesized market information to aid supply chains."

## Test for soybean cyst nematode this fall

**By Rebecca Zach, River Valley District Extension agent, Crop Production**

Post-harvest is an excellent time to soil sample for the soybean cyst nematode (SCN). Currently, 58 of Kansas' 105 counties are known to be infested. In those counties, it tends to start in fields next to a river. In fields currently infested, knowing your nematode population numbers is an excellent way to determine if your management plan is working. If numbers are going up, you know that the population of nematodes in your field has overcome the resistance in the most recently planted soybean variety and that use of that variety should

be discontinued in infested fields. Many soybeans that offer SCN resistance use the same gene PI88788.

Sampling the soil in a known infested field is very similar to collecting a soil fertility sample. You will need a soil probe, a bucket, and a little elbow grease. Walk a "Z" or "W" pattern across the field. If the field was soybeans in 2020, collect the cores from directly in the row since that is where the nematodes are most likely to be found. One difference from fertility sampling is that the probe should be inserted to a depth of 6-8 inches. Collect 18-24 cores in the bucket. Mix the soil thoroughly, and then remove about a pint for the

actual sample. Soil can be placed into the same type of white sampling bag used for fertility samples or into a resealable, gallon-size plastic bag. Avoid freezing the soil or exposing it to excessive heat after collection. Make sure you send it in that day to avoid disturbing the nematodes in the sample.

For fields with no history of SCN, you should concentrate on areas of the field that might be hot spots. Other than targeting potential hot spots, the sampling procedure is the same as outlined above.

Sample bags can be picked up at any K-State Research and Extension county office and dropped off for shipping. They can

also be sent directly to the K-State Plant Disease Diagnostic Laboratory: 1712 Claflin Rd, 4024 Throckmorton PSC, Manhattan, KS 66506

Keep in mind that if you are too busy to sample this fall, any time is a good time to sample for SCN. Unlike other nematodes that move up and down in the soil profile depending on the season, the cysts are always there and move only with tillage. For more information, visit the SCN Coalition website at <https://www.thescncoalition.com>.

If you have any questions contact Rebecca Zach at the Belleville office 785-527-5084 or [rzbecca@ksu.edu](mailto:rzbecca@ksu.edu).

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## Red Angus releases new index to identify profitability

The Red Angus Association of America recently released an updated suite of bio-economic selection indexes, including the Profitability and Sustainability index. The breed's new flagship index, abbreviated ProS, is an all-purpose index that covers economically relevant traits across all aspects of the beef supply chain from

conception to carcass. This updated index will work as a combination of the already-existing Herd Builder and GridMaster indexes, which include traits from conception to weaning, and postweaning through harvest, respectively. The ProS index is expressed in dollars per head born.

"Economic selection indexes are some of the best tools to help producers and commercial cattlemen and women with identifying animals that

will improve the profitability of their operations. Using the updated ProS index will allow for improvement in the genetic potential of progeny to be profitable across all segments of the beef supply chain," said Ryan Boldt, RAAA director of breed improvement.

The ProS index will provide producers from all segments with information they need to make cattle management decisions in order to become more profitable and work

towards greater beef industry sustainability.

"These new indexes are the best that have ever been available for describing Red Angus genetics," according to Tom Brink, RAAA CEO. "We're excited about how these new tools will enable our breeders to make rapid, multi-trait genetic advancement in the years ahead. They are easy to understand and use, and Red Angus breeders have already proven their commitment to commercial cattlemen through continually making the breed better in the traits that drive profit."

There are many economically relevant traits in beef cattle production. Since the ProS index encompasses conception to harvest, the traits included in the index are as follows: Calving Ease Direct, Calving Ease Maternal, Weaning Weight, Milk, Mature Weight, Heifer Pregnancy, Stayability, Average Daily Gain, Carcass Weight, Dry Matter Intake, Marbling, Backfat and Rib Eye Area. Each trait in the calculation model is weighted based on the effect that trait has in terms of increasing profitability. Producers with questions about the new ProS index should contact Ryan Boldt, RAAA director of breed improvement, at [ryan@redangus.org](mailto:ryan@redangus.org).

To view current Red Angus EPD averages and percentiles visit [RedAngus.org](http://RedAngus.org).

### REAL ESTATE AUCTION

**MONDAY, NOVEMBER 23, 2020 — 7:00 PM**  
Auction will be held in the Community Room in HUNTER, KANSAS

**80.10 ACRES IN SW ¼ SW ¼ 13 & NW ¼ NW ¼ 24 9-10 MITCHELL CO., KANSAS**

The farm is located on 150 & V roads in Custer Township Mitchell Co. The farm is located on a black top road 1 ½ miles North of Hunter, KS. There are 56.7 crop acres and 20 acres of CRP at \$76.30 per acre for a total of \$1,526.00 CRP payment per year. There is a gravel pit with plum thickets on the farm and 2 waterways. The contract expires in 2027. The purchaser will maintain the CRP contract until it expires on 9-30-2027. Purchaser will receive 2021 and all years thereafter CRP payments. 2019 taxes were \$933.68. Seller will pay 2020 taxes. Purchaser will 2021 taxes and thereafter.

The farm has very good hunting with pheasant, quail, turkey & deer.

**MARY GREINER TRUST**  
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC., 785-738-0067

### AUCTION REMINDER

**SATURDAY, NOVEMBER 21, 2020 — 10:00 AM**  
LOCATION: 13319 W. Elm Road - DEWITT, NEBRASKA  
DeWitt, NE, 3 miles South on Hwy 103, then ¼ mile East on W. Elm Road OR Intersection of Hwy's 4 & 103, then 3 miles North & ¼ mile East on W. Elm Road.

**COMBINE \* HEADS \* HEADER TRAILER \* SEMI \* GRAIN TRAILER \* STRAIGHT TRUCKS \* DUMP TRUCK \* TRACTORS \* GMC & FORD PICKUPS \* MACHINERY \* TRAILERS \* AUGERS \* IRRIGATION PIPE & SUPPLIES \* 4-WHEELER \* LAWN MOWER \* SNOW BLOWER \* JET SKI \* MISCELLANEOUS \* MINIATURE HORSES & GOATS**

See last week's Grass & Grain For Listings & Log on to: [www.beatrice77.net](http://www.beatrice77.net) (Click on The Auctioneers) LOOK FOR SALE BILL & PICTURES!

**BEV PLIHAL & The "Late" GALEN PLIHAL ESTATE**

INSPECTION Times & Dates: CONTACTS FOR AUCTION INFO:  
9:00 AM - 4:00pm Mike Holtmeier, 402-947-1440  
Nov. 17 - 18 - 19 - 20 Jack Spilker, 402-520-0809  
CLERK: TON-SOL Clerking, Ph: 402-239-8741  
LUNCH & RESTROOMS ON THE GROUNDS!

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

### LAND AUCTION

**191.8 taxable acres m/l located in Marshall County, KS - S27, T02, R06 - Logan Township**

**FRIDAY, DECEMBER 11, 2020 — 10:00 AM**  
Auction Location: American Legion, 310 Veterans Memorial Dr., MARYSVILLE, KANSAS 66508

**PROPERTY ADDRESS:**  
Located at the intersection of 5th Road and Jayhawk Road, Marysville, KS 66508  
**Directions:** 3 1/2 miles west of Marysville & 1/2 mile north of Hwy 36

**LEGAL DESCRIPTION:**  
The Northeast Quarter and the Northeast Quarter of the Southeast Quarter of Section 27, Township 2 South, Range 6 East of the 6th P.M. all in Marshall County, Kansas LESS an approximately 5 acre rectangular tract to be surveyed out of the extreme Northeast Corner of said Northeast Quarter of Said Section 27 to be bounded on the North by Jayhawk Road and bounded on the East by 5th Road.

**COUNTY PROPERTY DESCRIPTION:**  
(prior to 5-acre+/- tract removal) - Taxable Acres:  
196.8 acres more or less  
156.2 acres +/- dry crop  
32.4 acres +/- native grass  
8.2 acres +/- tame grass

**FSA PROPERTY DESCRIPTION:**  
(prior to 5-acre+/- tract removal)  
195.37 acres +/- farmland  
157.65 acres +/- cropland

**DCP Crop Data Base Acres PLC Yield**

Wheat	49.23	38
Corn	3.26	91
Grain Sorghum	49.41	93
Soybeans	53.10	34

This tract provides an excellent location for farming, residing, hunting & investing. Look this property over before the sale!  
CONTACT Donald Prell Realty & Auction, LLC for more details and maps.



### REAL ESTATE AUCTION

**TUESDAY, DECEMBER 15, 2020 — 1:00 PM**  
Auction will be held at the Community Center 509 Main Street in GAYLORD, KANSAS

**Tract I: 66.3 Acres in W ½ SW ¼ 34-4-13 Smith Co., Kansas less tract.**  
The farm is located on East side of Highway 281 & 250 road. The farm is 8 miles South of Smith Center, KS. 66.3 farmland acres with 51.7 acres crop & 14.6 acres grass & creek. There is a 10 acre tract with buildings that does not sell. Seller will pay 2020 taxes. Purchaser will pay 2021 taxes. 2020 taxes were \$780.02.

**Tract II: 69.8 Acres in E ½ SE ¼ 33-4-13 Smith Co., Kansas.**  
The farm is located on West side of Highway 281 on 250 road. The farm is 8 miles South of Smith Center, Ks. on Highway 281 & 250 road

**AARON JAMES**  
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC., 785-738-0067

**TAXES:** Taxes for 2019 were \$3,713.99. Seller pays 2020 taxes and prior years. Buyers will pay all 2021 and after taxes. **TERMS & POSSESSION:** Cash with 10% down payment, earnest money to be paid day of sale, with balance due on or before January 22, 2021. Title insurance will be used. Owner's title insurance, contract, deed, and escrow fees will be split 50/50 between buyer and seller. Possession will be given the day of closing.

For a copy of the sale bill visit our website at [donaldprellrealtyauction.com](http://donaldprellrealtyauction.com)

**SELLERS: EDINGTON FAMILY TRUST**

### AUCTION

**SATURDAY, NOVEMBER 21, 2020 — 9:30 AM**  
Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley in SALINA, KS

**ANTIQUES & COLLECTIBLES**  
100's of pieces of glass inc.: Fenton, Art Glass; Fostoria; Candlewick, Carnival glass; Syracuse railroad china; Mikasa china; Blue Willow; Sandwich glass; Luster shell creamer & sugar; Monarch china; Blue Willow; Noritake; sets china; large assortment clear glass; Depression glass pink & green; Fire King; Buffalo china; Humidor; sets glasses; Johnson Bros china; new Fiesta pieces; Emmett Kelly figures; figurines; vases; perfume bottles; dresser lamps; china clock;

West German carvings; Hummels; water sets; Mary Gregory pieces; Little Bo Peep; Jack In Pulpit; Custard; wall pockets; Frankoma; cookie jars; blue windmill pieces; Akro Agate child's set; pottery; Roseville; Hull; World's Fair pieces; lady figures; butter dishes; Jadite; cow-boy plates; Pyrex; Art; store blouse stand; 20's telephone stand; dresser lamps; barber cabinet; music cabinet; set 4 chairs; 20's tables; several stands; wood Sarsaparilla box; marbles; assortment hats; hat stands; buttons;

toys; music; table lamps; patterns; 2 iron wheels; baseball & football cards; color wheel; tree turner; boxes; Pez; jewelry cases; purses; dresses; dollies; dolls; black telephone; brass items; lighters; coaster wagon; Coca Cola radio; Rices pig bank; post cards; books; comics inc: Spawn, Superman, Rebels; 1939 Jayhawk; 1948 Royal Purple; American Boy magazines; many other paper items; assortment primitives; bottles; granite coffee pot; 50's kitchen items; HUNDREDS OF OTHER ITEMS.

**INDIVIDUAL COLLECTOR**  
This is a very large collection. There are many pieces, please check our pictures and come. For your safety please wear your masks. If you do not feel well please call in your bids to 785-738-0067. Check our website for pictures at [www.thummelauction.com](http://www.thummelauction.com).  
Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

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Don Prell, Broker/Auctioneer 785-562-6787 Steve Prell, Assoc. Broker/Auctioneer 785-713-2191 Vallery Prell, Assoc. Broker 785-713-1466





ON THE EDGE OF COMMON SENSE

'Kinda Makes a Feller Soft'

They stood in the back of the room lookin' like two Oakland Raider linebackers at a preppie quiche-tasting party. They had on unblocked hats with flat brims and each man wore a neck scarf and new Wranglers. Steve ambled over and asked where they were from. "Nevada," they said, "We ranch."

They discussed the cattle business and bad-mouthed the government, as usual. Pretty soon they got to discussin' mutual acquaintances. Steve had a friend named Pat from way up around Brothers, Oregon.

Pat lived and ranched twelve miles from the tiny town of Brothers but the wife and kids lived in the nearest big town sixty miles away. Four years ago he finally got a radio telephone. He rings through a big transmitter on a mountain top and patches into the Portland exchange two hundred miles away.

"We know Pat," said the Nevada boys, "He's been down our way lookin' to buy a place. Seemed like a nice enough guy but we're worried about him. See, we don't have no phone. Turns out he spends weekends in town with his wife and kids. That ain't the best way to run a ranch, ya know. Livin' that close to town kinda makes a feller soft."

Steve asked, "How far out are you?" "Wull," said the buckaroo, "My ranch is seventy-two miles from Fallon but the one he is lookin' at was a ways off the road."

www.baxterblack.com

Virtual reality to help teach farm animal welfare

When Nichole Anderson joined the University of Missouri College of Agriculture, Food & Natural Resources (CAFNR) Division of Animal Sciences in the fall of 2018, she was focused on bringing more technology into the classroom. With the help of a U.S. Department of Agriculture National Institute of Food & Agriculture (NIFA) grant, Anderson is taking a big step in that direction.

The grant, worth more than \$270,000, is focused on using virtual reality to increase student understanding and interest in farm animal welfare. The grant will help develop four virtual reality modules that focus on operating commercial dairy and swine farms, CAFNR said.

"Many undergraduate and professional animal and veterinary science students in the United States come from non-rural, non-farm backgrounds," Anderson, an assistant teaching professor, said. "In order to gain exposure to animal production, students must primarily rely on their course and laboratory work within their degree programs. While courses often incorporate limited access to university and commercial farmers, there are a number of challenges — such as funding, biosecurity and large class sizes — that prevent students from gaining adequate farm exposure and experience solving common animal-related challenges. The purpose of this proposal is to investigate an additional mechanism for students to gain on-farm experience through the use of virtual reality modules focusing on swine and dairy production systems and common welfare issues they would likely come across while working in the livestock industry."

Part of the grant's objective is to develop and evaluate the use of virtual reality modules in an entry-level freshman course to increase both student interest and understanding of swine and dairy production systems. Anderson is also focused on using virtual reality to create animal welfare case studies that can be introduced in upper-level animal welfare, capstone production or first-year graduate/veterinary courses. Animal welfare focuses on the complete care of the animal, from birth to death.

"Virtual reality opens a door to numerous possibilities," she said. "I think it's incredibly important that we look at innovative ways to reach our students. Technology certainly has a place in agriculture, and it's exciting to explore some of those possibilities. For example, my

background is in animal welfare. These modules will allow us to showcase common welfare issues and begin a conversation on how to address those issues."

Anderson added that funding from the grant will also provide training opportunities for animal science-related faculty at other institutions to utilize and assess the success of the virtual reality modules in their own classrooms.

"In the perfect situation, students would put on the Oculus goggles and actually walk through the dairy and swine farms," Anderson said. "There will be an option, though, where you can access the virtual reality simulation through a computer. We want to make our modules as compatible as possible."

Anderson said she is collaborating with North Dakota State University on the project. Be More Colorful, a company based in North Dakota, is helping with the virtual reality components.

"To accomplish our objectives, the plan is to utilize a multi-collaborator, multi-university and private business approach to develop, utilize and evaluate whether virtual reality could be a useful tool for preparing undergraduate students for a future in animal agriculture," Anderson said.

The group is still working out when and where they will begin taking the video for the virtual reality modules. The COVID-19 pandemic has changed a few plans; however, it has also shown the importance of this type of technology.

"We actually put this proposal together before the pandemic really took hold," Anderson said. "As we've had to practice social distancing and follow other measures, virtual reality could be an important tool moving forward."



Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

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

Table with columns for Steers (300-1,000 lbs), Heifers (400-1,000 lbs), and prices for the week. Includes 'RECEIPTS FOR THE WEEK: 4,880 CATTLE & 92 HOGS'.

THURSDAY, NOVEMBER 12, 2020: STEERS

Table listing cattle auctions for Thursday, Nov 12, 2020, including items like 5 blk Randall, 2 blk Sterling, and 9 blk Randall.

MONDAY, NOVEMBER 9, 2020: HOGS

Table listing hog auctions for Monday, Nov 9, 2020, including items like 15 fats Moundridge, 13 fats Pawnee Rock.

COWS

Table listing cow auctions, including items like 1 char Solomon, 1 red Inman, and 1 bwf Galva.

BULLS

Table listing bull auctions, including items like 1 blk Galva, 1 blk Newton, and 1 blk Newton.

TUESDAY, NOVEMBER 10, 2020 SPECIAL CALF SALE: STEERS

Table listing calf auctions for Tuesday, Nov 10, 2020, including items like 19 blk Burden, 3 blk Salina.

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211 MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY Hogs sell at 10:30 a.m. on the 2nd & 4th Monday of the month. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

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

AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD For a complete list of cattle for all sales check out our website www.fandrillive.com

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

Large table listing cattle auctions for Cattle USA.com, including columns for various breeds like Sterling, Halstead, Waldo, and prices for steers and heifers.

EARLY CONSIGNMENTS FOR THURSDAY, NOVEMBER 19, 2020: 144 S&H 625-700, fall vacc/open; 9 S&H 600, vacc/weaned 60+ days; 21 str 600-700; 20 blk&bwf S&H 600-700, fall vacc/HR; 22 S&H 550-600, vacc; 25 blk&bwf str 500-600, spring vacc; 48 blk S&H 500-650; 30 S&H 600-650, off grass/LTW; 38 S&H 500-650, HR/fall vacc/charx&blks; 10 Red angus str 850, HR/off grass/all vaccs; 175 blk hfrs 650-800, HR/LTW/open; 65 mostly blk str 825, off tricale. PLUS MORE BY SALE TIME.

NO SALE: THURSDAY, NOVEMBER 26, 2020

TUESDAY, DECEMBER 11, 2020, Weaned/Vacc Sale, 11 AM

- List of cattle for sale on Tuesday, Dec 11, 2020, including items like 15 blk S&H 500-600, 50 blk/red S&H 500-700, 23 red&blk S&H 600-700, 2rd/45 days weaned, 9 S&H 600-650, 75 S&H 500-650, 25 blk S&H 600-700, September 1st, weaning, 65 blk S&H 500-650, 10 S&H 500, 36 S&H 500-600, 35 mostly blk str 600, 55 blk str 600-700, 100 S&H 550-675, weaned 45 days/mostly blk, 40 S&H 350-700, 2rd/Fink sired, 60 str 750-800, 2rd/70+ days weaned, 65 blk S&H, green garden sired/2rd, 110 blk/bwf str, 2rd/GGA sired, 70 blk&bwf S&H, 2rd, 115 S&H 600-800, HR, 25 S&H 500-600, HR, 16 str 650-750, HR/2rd, 50 blk S&H 500-600, 90+ days weaned, 130 blk sin angus str 550-650, 135 blk&bwf S&H 550-650, Blk&char S&H 400-500, oct, 1st weaned, 10 blk S&H 400-500, Sept weaned, 40 S&H 550-600, 140 blk S&H 500-600, HR/Sept weaned

UPCOMING SPECIAL SALES:

All Sales are on Tuesday at 11 AM WEANED/VACC. SALES: Tuesday, Dec. 1 • Tuesday, Jan. 5 • Tuesday, Feb. 2 COW SALES: Tuesday, Nov. 17 • Tuesday, Dec. 15 BUFFALO SALE: Saturday, December 5, 11 AM

IN STOCK TODAY: • Heavy Duty Round Bale Feeders • 42' ROUND BALE DUMP TRAILERS • HEAVY DUTY FEED BUNKS (Silage & Grain) • HEAVY DUTY 5000# GRAIN TOTE

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 785-565-3525 Agenda, KS Austin Rathbun 785-531-0042 Ellsworth, KS

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

