

Farm tour highlights importance of agricultural research

U.S. Sen. Jerry Moran met last week with farmers and agricultural thought leaders for a farm tour highlighting the importance of agricultural research for increasing global food security.

The event, held at Lund Farms in Salina, also included Martin Draper, associate dean for research and graduate programs at Kansas State University's College of Agriculture; Jagger Harvey, director of the K-State Feed the Future Innovation Lab for the Reduction of Post-harvest Loss; Tim Dalton, director of the K-State Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet; and David Hong, director of government affairs at Farm Journal Foundation. The tour showcased

how cutting-edge agricultural research is helping farmers at home and abroad increase their crop yields, prevent post-harvest losses, and ultimately improve food security for people around the world.

"I have long supported agricultural research and development initiatives at the federal level to help improve our ability to address food insecurity," Moran said. "I was pleased to see firsthand today how that research is translating into improved crop yields, profitability and



Senator Jerry Moran visted Lund Farms near Salina to hear how cutting-edge agriculture research is benefitting farmers and consumers around the world.

sustainability right here in Salina as Kansans continue to answer the call to feed the world. Thank you to Tyler Lund for hosting this informative event and all of the agricultural scientists at K-State for the important conversation on how this research translates into international development."

The tour demonstrated the work of K-State's Feed the Future Innovation Labs, which are supported by USAID's global food security initiative Feed the Future. The labs are a main mechanism to harness research ex-

er corn cribs were ready

wheeled F-12 and was

shelling a load of 2020 corn

right out of the field. The

sheller was built sometime between 1920 and 1934.

With no serial numbers,

there is no way to give an exact year. The outfit be-

longs to Gary Sorensen,

Denmark, Kansas. He

came with his eleven-year-

old grandson, Kale, and Rick Vaupel, Lucas. Kale

was the youngest to pick

corn this year. He picked

corn using Bohnert's Far-

smallest piece of corn machinery to Corn Picking

Days, a cob scoop. "Not

too many of them around." he said. The cob scoop had

a wooden handle with a

heavy wire scoop and was used to move the cobs that

were the result of shelling

corn. The cobs were not a

waste product, they were

scooped into a cob house

and burned throughout

Vaupel brought the

mall C.

Nearby an International four-hole sheller

for this year's harvest.

pertise at U.S. land-grant universities, and the U.S. national research system as a whole, by fostering effective international partnerships with leading U.S. researchers and other partners such as the CGIAR international research system. K-State is home to four Innovation Labs, the most of any other university.

The work the Innovation Labs do abroad helps safeguard agriculture here at home, with work on pests and diseases that represent current and emerging threats to Kansas and U.S. agriculture.

The Innovation Lab for the **Reduction of Post-Harvest** Loss, for example, is finding solutions to eliminate food waste and losses of crops after the harvest, which the United Nations Food and Agriculture Organization has estimated costs the world \$1 trillion every year. With 690 million hungry and malnourished people around the world, this represents enough to feed two billion people.

"Reducing food waste here in Kansas and food losses in our partner developing countries can improve livelihoods and

grow economies, here at home and abroad," said Harvey.

Moran's visit highlighted the vital importance of agricultural research to farmers and Kansas' agricultural economy, which is worth approximately \$70.3 billion. Kansas agriculture and agriculture-related sectors support about 250,000 jobs, or 13% of the state's entire workforce.

Agricultural research has one of the highest returns of any public investment. A recent report from the Supporters of Agricultural Research Foundation calculated that CGIAR - the largest international agriculture research and development system - generates a benefit-cost ratio of 10:1. For example, over 60% of wheat in the U.S. is grown using varieties developed by public research.

Lund Farms is a strong example of how farmers can put cutting-edge research into practice. The farm, in conjunction with local precision agriculture company Veris Technologies, is using state- of-theart soil sensors to improve crop yields, profitability, and sustainability.

"Feeding tomorrow's growing population depends on continuing to research our soil and innovate our farming systems," said Tyler Lund, a fifth-generation farmer who grows wheat, soybeans, and sorghum. "Soil is at the root of everything we grow. Soil is what feeds our world today."

With the world's population expected to grow to ten billion by 2050, increased investments in agricultural research are urgently needed to meet the needs of the future. Global hunger is on the rise again, after decades of progress, and the COVID-19 pandemic threatens to worsen this further. The UN's World Food Program forecasts that by the end of 2020, the pandemic could force as many as 130 million more people into chronic hunger.

"Now is the time to double down on research to help protect livelihoods and global food systems - and prevent the next zoonotic disease from reaching the U.S.," said David Hong, director of government affairs at the Farm Journal Foundation. "This would also help create new trade opportunities for U.S. farmers."

The event was organized by the Farm Journal Foundation, a nonprofit organization dedicated to achieving global food security by sustaining modern agriculture's leadership role and ability to meet the vital needs of a growing population.

Jewell County Corn Picking Days enjoyed by all ages

By Kerma Crouse The 2020 Jewell County Corn Picking Days was blessed with beautiful weather November 14 and 15. Plus, as J.R. Vandergiesen of Smith Center, one of the organizers of the event, said,"The corn is ready! Dry, not wet." Participants and observers alike enjoyed the outdoors event. Avenue H west of Jewell was very busy with machinery moving back and forth as well as cars and pickups of people just out to see what



was going on.

And there was quite a bit going on. Of course, Vandergiesen was in the field with his John Deere 50 and John Deere picker – with American flags flying on the tractor. Calvin Bohnert of Jewell, the other event organizer and host of the event, had his Case 210 corn picker/silage cutter running. Built for only a few years in the 1950s, it is an interesting and rather rare machine, but not a practical one. If the corn was dry enough to pick, the silage was too dry. If the silage had some moisture, the corn was too wet.

Off the field there was also activity. The corn picked last year and stored in a corn crib was being ground for feed. A

New to Corn Picking Days this year was a 1959 self-propelled Minneapolis Moline Uni-Corn Picker and Uni-Tractor. The Uni-Harvestor series by Minneapolis Moline had several attachments for the Uni-Tractor including a hay baler, combine, and windrower besides the corn picker. The machine is owned by Brian Freeman and is being driven by Randy Aurand. Both are from Courtland. Corn Picking Days was held on November 14th and 15th in Jewell.

little farther on, two smallthe winter for heat.

Thirteen-year old Peter Smith of Scottsville came last year with his grandfather, Dave Smith. was belted to a 1936 steel He "caught the bug" for old machinery. This year he came back - with his own tractor. He now owns a Case SC and pulled a Woods Brothers picker owned by Bohnert.

Another group in the field were three genera-



Three generations are shown here picking corn at Corn Picking Davs. Merritt Blain is driving a 630 John Deere and pulling a one-row corn picker. Riding in the wagon are his father, Lenny Blain, and son, Porter Blain. They are all from Glen Elder.

County Corn Picking Days. He is shown here driving a Farmall C tractor owned by Calvin Bohnert of Jewell. Riding along is Brad Cockroft of Esbon. Haylee Cockroft of Esbon is in the trailer.

tions of Glen Elder's Blain Family. Lenny Blain was with his son, Merritt Blain, and three-year-old grandson Porter Blain. The three were picking corn with a 630 John Deere owned by Bohnert.

It wasn't just guys in the field. Haylee Cockroft,

Esbon, came with her dad Brad and brothers William and Jacob. She worked in the wagon moving the ear corn around but she also took her turn picking corn driving Bohnert's Farmall C: the only woman to pick corn in 2020.

Craig Ballou of Delphos heard about Corn Picking Days last year "after it was over" but was one of the first to arrive this year. He got into the field with a Massey Ferguson 135 and a red Ford picker.

"Yes" said Robin Edmonds, Stull, "Ford made corn pickers." Edmonds is a long-time friend of Bohnert's and comes each year to help get ready for the event. Edmonds isn't the only one that comes to "help." Dan Emmett of Beloit comes to do just that. He brings a wagon, with steps and seats, just to take spectators into the field to get a close-up view of the machines at work.

Though most machines were one-row pickers, there were two machines working two rows. A newer machine, an F2 Gleaner with a two-row head, picked and shelled corn.



Full of Love and Thanks

By Jackie Mundt, Pratt County farmer and rancher Like many this year, in-

stead of traveling to be with family, I cooked my own Thanksgiving dinner. Honestly, I didn't mind. It was sad not to see my family, but I am relieved that I did not put any of them in harm's way. And I am not mad about getting to keep all the leftovers for myself.

Holiday rituals and decorations have always paled in my mind to the comfort brought by food. A big part of my comfort comes from the promise of making this meal.

I have spent years in the kitchen as sous chef to my mom. She has taught me the simplest way to care for all people is to make sure they are wellfed. When mom is in the kitchen, she is creating a physical representation of her love and care for others. She doesn't let screaming grandkids, a

crowded house or trying to make things look pretty worry her. Cooking the same meal that my mom will prepare grounds me and makes me feel closer to her and the love she shares freely.

When I was a kid my dad, like his holiday hero Clark Griswold, was adamant that we find the perfect Christmas tree to chop down. The whole family had to bundle up in our winter clothes and head out into the woods behind my grandpa's house. We trudged through the snow for what felt like hours, examining tree after tree to find the perfect one. He was never worried about how long it took and even seemed to get an evil glint of joy in his eye when we always came back to the very first tree we had considered.

After chopping it down, we would then have to pick a second best tree to get for grandma's house. We dragged both trees to the car with a renewed level of enthusiasm at the prospect of getting somewhere warm so we could regain feeling in our toes. Years later. I understand it was never about the perfect tree, rather it was about the shared experience.

My grandmother, who has now passed, was one of those beautiful scatterbrain types. Every year at Thanksgiving, she would forget at least one batch of rolls in the oven and let out a yelp as the smell of smoke would waft into the dining room. For Christmas, she would often make one of us grandkids feel like we won the lottery by giving us a Christmas present in July that she had hidden and forgotten.

That "second-best Christmas tree we brought her always ended up looking like an elf had thrown up on it as she tried to "fix it" with tinsel. In all of these moments. I remember how she would throw her head back and let out a cackle of laughter at her mistakes. She never worried about the mishaps and imperfections; she embraced them and often shared the story in a tone of conspiratorial confidence. Grandma's ability to laugh at herself taught me to love my own imperfections.

Even though I won't be with my family this year, they will be with me. I feel them in the joy of holiday memories and the lessons that have made me full of love and thanks.

As the holiday season arrives this year, I wish you all moments of joy from imperfection, the ability to share unconventional experiences with your loved ones and fulfillment in the things that feel like home.

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

USDA launches AskUSDA to improve and streamline customer experience

U.S. Secretary of Agriculture Sonny Perdue has announced the official launch of the U.S. Department of Agriculture's (USDA) AskUSDA Contact Center program. The AskUSDA Contact Center will serve as the "one front door" for phone, chat, and web inquires, transforming how the public interacts with USDA and providing an enhanced experience for the public.

"Part of our work here at USDA to be the most efficient, effective, and customer-focused agency in the federal government is to ensure our customers and Americans across the country can easily get support from our department and answers to their questions," said Perdue. "The AskUSDA Contact Center will act as one, centralized front door, ensuring good customer service is given to everyone who interacts with USDA."

The public can contact AskUSDA by phone at (833) ONE-USDA with representatives available 8:00 a.m.-4:30 p.m. Central time weekdays. The website (https://ask. usda.gov/) is available 24/7 and includes live chat agents available 9:00 a.m.-5:00 p.m. on weekdays. Inquiries can also be sent via email at any time to askusda@usda.gov. Background:

Prior to the creation and implementation of AskUS DA, members of the public had to navigate dozens of phone numbers and had no chat function or online platform for self-service, creating frustrations and inefficiencies. AskUSDA was created to make USDA more responsive to the public by providing a single destination for phone, chat, and web inquiries. Whether it's talking to a USDA representative via phone, chatting with a live agent on their website, or communicating with USDA via e-mail, the public will have streamlined access

The launch of AskUSDA delivers a centralized contact center that offers customer service and consistent information for the public. With over 29 agencies and offices, USDA's mission impacts every single person in the U.S. and hundreds of millions around the globe. AskUS-DA assures that farmers, researchers, travelers, parents, and more have efficient access to the information and resources they need.

AskUSDA is set up to handle common questions across programs that service a variety of audiences. For example, customers who may have basic questions about USDA's nutrition services can be assisted across phone, e-mail, and web chat by trained AskUSDA representatives, and customers who may have complicated questions about loan programs can be quickly connected to agency experts. AskUSDA also hosts over five thousand articles for a self-service option to help with more common questions such as food safety inquiries or pet-travel guidance.

Over the course of its pilot program, AskUSDA successfully assisted with over 93,000 citizen inquiries, and the AskUSDA website resulted in over 1.4 million knowledge article page views. USDA looks forward to continuing to implement this enhanced best in class contact center across the department.

USDA Rural Development provides loans and grants to help expand economic opportunities and create jobs in rural areas. This assistance supports infrastructure improvements; business development; housing; community facilities such as schools, public safety and health care; and high-speed internet access in rural areas. For more information, visit www.rd.usda.gov.

If you'd like to subscribe to USDA Rural Development updates, visit our GovDelivery subscriber page.

court proceedings to hold

EPA accountable to the

law. It's well past overdue

that EPA restore the 500

million gallons and focus

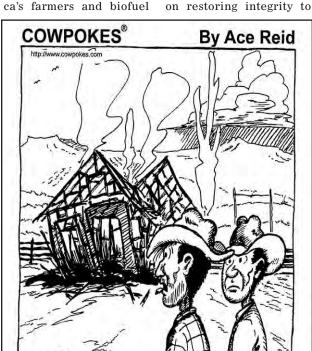
Farm and biofuel leaders urge courts to hold EPA accountable on improper 2016 waiver producers and supporters.

A coalition of the nation's largest biofuels and agricultural trade groups have filed a motion in the U.S. Court of Appeals in the District of Columbia asking the court to enforce

its 2017 decision requiring the U.S. Environmental Protection Agency to address its improper waiver of 500 million gallons of biofuel demand in the 2016 renewable volume obliga-

tion (RVO). The coalition, which includes Growth Energy, Renewable Fuels Association, National Biodiesel Board, American Coalition for Ethanol, National

"It is simply unconscionable that EPA would so brazenly ignore a federal court's order. The agency must do right by America's farmers and biofuel



the Renewable Fuel Standard."

In the July 2017 ruling of the case Americans for Clean Energy et al. v. EPA et al., the court invalidated the EPA's improper waiver of 500 million gallons in the 2016 RVO and ordered EPA to revisit the rule. The court held that EPA's interpretation of the "inadequate domestic supply" waiver provision "runs contrary to how the Renewable Fuel Program is supposed to work." To date, EPA has failed to open any proceedings to reconsider the 2016 RVO and has not restored the 500 million lost RIN gallons.

In the motion the coalition asks the court to:

Require EPA to issue a 500 million gallon "curative obligation" on obligated parties to make up for the lost gallons:

Require EPA to do so no more than six months after the court's order;

Require obligated parties to show compliance with the additional obligamore than three months after EPA issues the curative obligation; and



Christmas season is upon us, it sure snuck up on me. Much like everything else in 2020 Christmas will be very different this year. Well, I guess so anyway. We really do not know what it will be like since it is a month away and who knows what will happen in a month's time. I have been as bummed as anyone about the recent pandemic and all the changes it has brought to our lives. It is no secret that I am a people person so isolating is not something I do very easily. Now I am looking at a December calendar that looks like nothing I have ever seen, it is blank. My December calendar is usually packed with meetings. I do not know why but it seems as though everyone has decided that since there is nothing on in December, they will add a meeting. Soon those meetings fill up a good portion of my calendar and where there is not a meeting, a Christmas party pops up. The past few Decembers my calendar has been one of my busiest months and lost in the shuffle is Christmas and the deepest, truest meaning of the season. This year I have almost nothing on my calendar; that makes me sad in some ways but also presents an opportunity to find the true meaning of Christmas. Instead of jetting off to the next commitment, this year should present the chance to have some quiet time to reflect on the real meaning of the season. My favorite thing to do during Christmas is to turn the lights on the tree on, the overhead lights off and just enjoy the glow with a little Christmas music. There should be ample time for that this year. Yes, this year has had challenges and sacrifices to say the least. We have all given up a lot because of the pandemic. I am not about to get into the debate of what is right and what should be done; honestly, I am over all of that. I am tired of the arguing on both sides and I am choosing to social distance to escape it. I like it out here on the farm. This all just highlights the fact that we all have a choice about how we are going to live our lives. We can complain about what we do not have and what we cannot do, or we can simply make the best of a bad situation.

is no different. That is especially true during this Christmas season; we have the choice, so do not blow it. Sure, we can sit around and bemoan what we cannot do. I am going to miss the gatherings with friends and family the most. If I was completely honest with myself I would admit that I like the rush of going from one thing to the next, but that is not going to happen this year, no matter how

much I kick my feet and protest. Instead I can make the best of the

Corn Growers Association, National Farmers Union. Together, our coalition and National Sorghum represents millions of Producers issued a staterural families, who should ment following the filing: not have to resort to more

Our happiness and our attitude are our choice no matter what happens or what is going on and this pandemic

situation. I can spend some extra time to have quiet meditation about the real meaning of the season and the greatest gift any of us will ever receive. I can choose to savor the time with my immediate family, watch sappy Christmas movies, recreate traditions that we have never had time to do. I do not know that I have ever been as grateful and as excited about having my now-adult children home from college for the holidays.

I am looking forward to days home in my warm comfortable house with no place to go. I am looking forward to the smells of baking, the sounds of Christmas music and the decorations of the holidays around me. I am anxious for days that maybe move a little slower and the anticipation builds just a little more each day. Maybe this will bring some of that childlike excitement for Christmas back into my life

I hope I can choose to look at the positive in any situation and if there was one with this current pandemic it is the appreciation for everything around me and most importantly my friends and family. Slowing the pace down has helped me remember that the best place to be in the evening is home and the best people to share that time with is my family, I hope this slower-paced Christmas season will magnify that.

My wish for each of you this Christmas season is to not lament about what is missing but to savor and enjoy what is present. Do not spend time thinking about what you cannot do but give thanks for what you are blessed with. Life is a choice and only you can make yourself happy, that is a skill we can hone during this trying time. Take time to listen to that small, still voice because this year I think you can hear it better without all the noise, and that is the ultimate Christmas present.



"Wul that wuz a heck of a shower, sixteen sprinkles and one bolt of lightining!"

Declare that it will not extend these deadlines.



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KFAC announces Invest in Agriculture Honorary Chair

Kansas Foundation for Agriculture in the Classroom (KFAC) announces Senator Dan Kerschen as the Invest in Agriculture Giving Campaign Honorary Chair. Kerschen serves as the Chair of the Senate Agriculture and Natural Resources committee and proudly supports Kansas's largest industry.

Kerschen wants to remind others, "As farm numbers continue to decline, it is vital that the urban population is aware of the rural values of stewardship and the conservation of land - thus understanding the concept of



Today's students are three to five generations removed from direct agriculture. Teachers and schools can be a great

channel for sharing, but they must first know the story of agriculture.

'KFAC is the connection and the coordinator in telling the story of agriculture in the classroom. It provides the resources that teachers need as they bring the student to the farm," says Kerschen.

KFAC provides free resources for teachers, teacher professional development, and agriculture career and industry exploration. Everyone needs to understand where their food, fiber, and fuel come from, and every agricultural producer deserves to

"KFAC keeps us focused on the value and benefits of farm life and sharing that lifestyle, which farm families cherish, with those in the classroom," says Kerschen.

Central National Bank and Farm Credit Associations of Kansas have already pledged their support by matching donations during this campaign. Join us and invest in the future of agriculture in Kansas!

To support Kansas Foundation for Agriculture in the Classroom, visit ksagclassroom.org.

co, London, and Mexico

ceremony on the Depart-

ment of Commerce You-

Tube channel.

Watch the full awards

City.

Corn Picking Days enjoyed by all ages

Cont. from page 1

The other two-row machine was drawing a good deal of attention. "Have you ever seen one?" and "I'm waiting to see it run," were comments heard around the field.

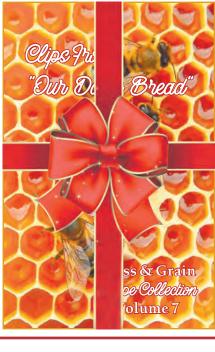
The machine getting the attention was a self-propelled Minneapolis Moline (referred to as "The Minnie"). New to Corn Picking Days, the machine was a 1959 Uni Tractor with a Uni-Corn Picker. It was part of Minneapolis Moline's "Uni-Harvester System." The system originated in 1951 with the Uni-Tractor, Uni-Combine and Uni-Picker. The tractor was designed to carry instead of pull the attachments. Eventually the Uni-Tractor could also be used with a Uni-Hay Baler, Uni-Picker Sheller, Uni-Swather, Uni-Windrower and Uni-Forage Harvester

The machine is owned by Brian Freeman of Courtland. He has been the owner for a little over a month but Corn Picking Days was the second time he had had it in the field. He drove it on Saturday but on Sunday afternoon Randy Aurand of Courtland was the one picking corn.

It is over for this year but the plans are already in the works for next year. The hosts Calvin and Peg Bohnert (785-738-7589) and J.R. Vandergiesen (785-282-0591) are the organizers and the ones to call for information about harvesting just like the "good old days" in 2021.

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this (hristmas

close to the land." have the story told. Governor Kelly recognizes Creekstone Farms as 2020 Kansas Exporter of the Year Kong, Seoul, Rome, Mona-

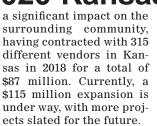
Governor Laura Kelly recently recognized Creekstone Farms Premium Beef LLC as the winner of the 2020 Governor's Exporter of the Year Award, the top export business award presented by the

Creekstone was one of five finalists for this award. joined by Kice Industries of Wichita, Petron Plus Global of Hutchinson, Dragon-Line of Ulysses. and Compass Minerals of Overland Park. The announcement of the winner was made during a virtual award ceremony on the Kansas Department of Commerce Facebook page.

"Creekstone Farms is an impressive Kansas company, whose beef can be found in nearly every corner of the world." Kelly said. "All five companies have demonstrated sustained and superior exporting performance worthy of making each one a strong contender for this year's award - but there can be only one winner. Congratulations to Creekstone Farms on this outstanding recognition.'

Creekstone Farms was named the winner over four strong award finalists. Creekstone sends premium beef to 68 foreign markets, with exporting as an essential element of its overall business success and sustainability. According to Creekstone, 20% of company sales are generated from export.

The company has made



After the awards ceremony. Secretary of Commerce David Toland called Creekstone Farms to congratulate them for the achievement.

"COVID-19 has created so many challenges for exporting, from trade show cancellations to travel restrictions and more," Toland said. "Creekstone Farms has been resourceful and continued to grow, including a \$150 million investment in expansion projects, where the company has worked with ten other Kansas companies

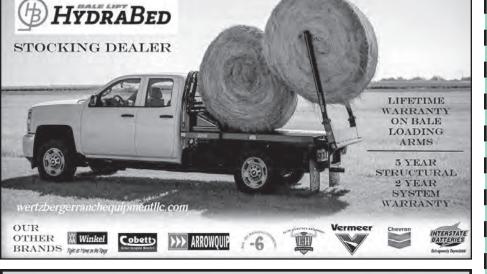
in construction and engineering. Creekstone is a success story in Kansas international business, and they're highly deserving of this honor."

Founded in 1995 in Campbellsburg, Kentucky, Creekstone Farms moved to Arkansas City in 2003. It is currently owned by the Marubeni Corporation of Japan and employs more than 1,000 people.

Creekstone Farms represents about 1% of the American beef market. It produces beef from genetically verifiable Black Angus cattle using advanced cattle management practices, carefully controlled feeding practices, and a company-owned, state-of-the-art processing facility. Creekstone Farms beef can be found in Tokvo. New York, Shanghai, Hong









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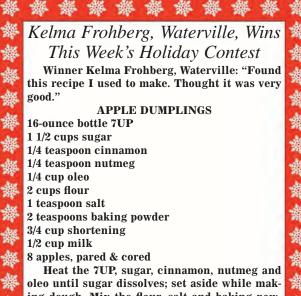
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2020 Grass e3 Grain Holiday Recipe Contest



ing dough. Mix the flour, salt and baking powder; cut shortening in with pastry blender or fork. Add 1/2 cup milk. Pare and core apples. Roll out dough and cut into 8 squares. Place apples in center of each square and fold around apples, pinching edges together. Arrange in baking dish. Pour syrup over apples and bake at 375 degrees for 35 to 40 minutes.

1

soup

soup

1 can cream of mushroom

Seasonings such as salt,

mixed spice, parsley

flakes or Parmesan cheese

and cut in small pieces and

put in crock-pot. Sprinkle

with a bit of pepper. Cook

3 cups noodles and drain.

Mix chicken broth, cream

of chicken soup and cream

of mushroom soup. Mix

seasonings of your choice

with soup mixture and noo-

dles and pour over chicken.

Hunter George, Shaw-

Cook on high.

nee:

Cook the chicken breasts

Linda Kepka, Dorrance: PUMPKIN COOKIES 3/4 cup margarine

1 1/2 cups sugar

2 eggs

2 cups pumpkin

3 3/4 cups flour

1 1/2 teaspoons baking soda

1 1/2 teaspoons cinnamon

1 1/2 teaspoons cloves

1 1/2 cups raisins

Cream margarine and sugar. Add eggs and pumpkin. Sift flour, baking soda and spices; add to mixture. Stir in raisins. Drop by spoonfuls onto cookie sheet and bake at 375 degrees for 10-12 minutes.

Lucille Wohler, Clay Center:

CROCK-POT CHICKEN & NOODLES 3 boneless chicken breasts

Pepper

- 3 cups noodles
- 2 cans chicken broth
- 1 can cream of chicken

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2 cups heavy whipped cream

1 cup marshmallow creme 1/4 teaspoon vanilla

In a large bowl beat milk, pudding mixes and cocoa powder until smooth. Add cream cheese and beat until smooth. Cover and refrigerate 4 hours. In a large bowl, beat whipped cream and marshmallow creme with mixer until stiff peaks form. Add vanilla beating just until combined. Cover and refrigerate 2 hours. Spoon pudding into serving bowls and dollop with topping. ****

Beth Scripter, Abilene: "This is so different; you have to try it!"

MARTINA McBRIDE'S FLUFF SALAD

5-ounce jar pimento cheese spread

8-ounce can pineapple tidbits, drained

3 1/3 cups miniature marshmallows

8-ounce container whipped topping, thawed

Mix cheese and pineapple well; add marshmallows and whipped topping (this needs to be stirred and stirred to mix well). It will fluff up more as you stir.

Darlene Thomas, Delphos: POPPIN' BALLS

1/2 cup Karo corn syrup1/4 cup sugar1/2 cup peanut butter2 quarts popped corn

Mix together corn syrup and sugar in a small saucepan. Cook over medium heat, stirring constantly until mixture comes to a boil. Remove from heat and stir in peanut butter. Pour over popped corn. Mix until coated. Shape into balls with greased hands.

Millie Conger, Tecumseh:

APPLE SAUSAGE DRESSING

8-ounce package ground pork sausage

5 tablespoons butter

2 1/2 cups chopped leeks, white & light green parts only

2 cups chopped celery 2 apples, cored & diced 1/2 cup chopped pecans 2 tablespoons sage 1/4 teaspoon pepper 10 cups of 1-inch cubed dayold cornbread 3 cups chicken broth 2 large eggs

Set oven at 350 degrees. Spray a 11-by-9-inch baking pan. Heat skillet and add sausage. Brown; remove, reserving drippings. Melt butter with drippings in skillet over medium heat. Add leeks and celery; cook until tender. about 10 minutes. Stir in apples, pecans, sage and pepper. Cook until apples are tender, about 5 minutes. In a bowl stir sausage, apple mixture, cornbread, broth and eggs until well-combined. Pour into pan. Bake until golden brown and firm to the touch, about 45 minutes. Let stand for 10 minutes before serving.

Gin Fox, Holton:

CRACK GREEN BEANS 5 regular cans of green beans, drained (note: you can substitute a similar amount of frozen green beans; about 4 12-ounce bags, thawed, or you can use fresh green beans, too) 12 slices bacon 2/3 cup brown sugar 1/4 cup butter, melted

7 teaspoons soy sauce

1 1/2 teaspoons garlic powder Put the drained green beans in a 9-by-13-inch pan. Add the cooked bacon pieces. Mix the remaining ingredients and bake 40 min-

utes at 350 degrees. Toss and serve.

Kellee George, Shawnee: CRANBERRY

COOKIES 1 cup butter 3/4 cup sugar 3/4 cup brown sugar 1 egg 2 1/4 cups flour 1 teaspoon baking soda 1/2 teaspoon salt

1 1/2 cups sweetened dried cranberries

Set oven 375 degrees. Beat butter with mixer until creamy. Add both sugars and beat 2 minutes. Beat in egg until blended. Stir in flour, baking soda and salt. Dough will be crumbly. Stir in cranberries. Drop dough by rounded tablespoons 2 inches apart on parchment paper-lined cookie sheet. Bake 10-11 minutes or until light golden brown. Center will be soft. Cool 1 minute then remove from baking sheet to wire racks. Cool completely.

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When we are young, we tend to be determined that we will remember things forever, but the older we get, it is funny to think about the things that stick out, especially when someone has passed. Thinking about my Great Grandpa, I can still smell him to this day, chewing tobacco; precious little old man, that was him, with of course the little addition of stubbornness and sass that made him even better. My Great Grandpa's brother, we called him Uncle Bud, I can still hear his voice and see his overalls as vividly as if he were sitting in the room with me. My Aunt Joyie, I remember her belly laughs and how easy it was to make her turn red and how quick she was to tell my dad and uncle to be quiet as they worked their embarrassing magic, I also remember how much she loved her grandkids and all things M&M.

My cousin Pete, I remember his slow chewing and the time he took to respond; his cheesy grin, his dog Mitsy and being at his funeral and having his friend tell me about how he always talked about how he just knew I would be a great mother someday. My Aunt Patsy, I remember her strength and smile and how she would light up when she saw a baby. With my Aunt Linda I remember her bright red hair and I remember the fight against Parkinson's and the desire to talk to her mom no matter how difficult it was to muster up the strength to get the words out on that last visit.

My Great Grandma, I wish I remembered more about her, but what I remember most was her love of red, anything and all things red. Didn't matter the occasion, she always had on something red; a dress, costume jewelry, lipstick, something, and she could almost always be found carrying a red "pocket-book."

Red was Great Grandma's thing, everyone knew it, no one ever doubted it. If you needed to buy her a gift, something red was always destined to be a winner. Sometime after she passed, I remember seeing a sign somewhere that a Cardinal was a symbol of a loved one visiting you once they had passed, and something about that brought me such comfort. The idea that someone I loved was taking the time to visit me, check on me and a lot of times just brighten my day with their quick glance always makes me grin.

It never fails, life gets hard, stressful, overwhelming, and out of nowhere a Cardinal will pop up. The same thing goes for when really great things are happening or when life gets really exciting, they pop up out of nowhere, I will see them randomly on the side of the road, or when I go on a walk, they just start showing up. Whoever they are, whatever their reason, I will forever keep seeing red, searching them out, finding comfort in their presence and a sense of overwhelming love and protection with each time they make their appearance and a small part of me will always smile knowing on some level that those bright red Cardinals had to be sent by my Great Grandma, red was, her color after all.

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

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

HOT CHOCOLATE PUDDING 4 cups whole milk (2) 3.9-ounce boxes chocolate instant pudding 1/2 cup cocoa powder 8-ounce package cream cheese Topping: 52 22

Holiday Recipe Contest

Nov. 24 through Dec. 22

In observance of the holiday season, Grass & Grain will award the weekly winners \$40 in addition to the gift trio. Recipes received NOW through DECEMBER 14 will be entered in the holiday contest. Enter as often as you like during this period.

BONUS DRAWING

Second chance to win! The names of all contestants will be entered in a drawing from which four names will be chosen. Each of these four contestants will receive \$40. Winners will be announced Dec. 22.

HOLIDAY GIFT BASKET

What's better than a Kansas Gift Trio?!



 Volume 7 of Clips from "Our Daily Bread"
 Picking up where we left off, you can now enjoy a compilation of nearly 80 pages of unique & delicious recipes from "Our Daily Bread" circa 2014, including a few home recipes from the G&G staff!

• Legendary Spiced Lemongrass Soap (ordered from Grandma Hoerner's)

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• Elsie Grace HOMEMADE FUDGE! Straight out of Frankfort, KS

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

OR e-mail: auctions@agpress.com









2020 Grass & Grain Holiday Recipe Contest

Susan Schrick, Hiawatha: "I've tried this recipe with ground beef, shredded chicken and imitation crab and ALL are delicious."

ENCHILADAS 1 can cream of chicken soup

1 cup sour cream

7-ounce can chopped green chiles. undrained

2 cups shredded cheese, divided 2 cups cooked ground beef

(or shredded chicken) (6) 10-inch round flour tor-

tillas

Preheat oven to 350 degrees. Spray bottom of a 9-by-13-inch glass pan with cooking spray. Mix all ingredients except 1 cup of cheese and the tortillas. Set aside 1 cup of the meat mixture. Spoon remaining filling evenly among the tortillas and roll. Place stuffed tortillas in pan and spread reserved filling and shredded cheese on top. Bake 15-20 minutes.

Jean Boeckman, Frankfort: "Perfect for breakfast or dessert.'

COFFEE CAKE 1 white or yellow cake mix 3/4 cup oil

3/4 cup water

1/2 teaspoon butter flavoring

4 eggs

3-ounce package instant va-

nilla pudding **Cinnamon Mixture:**

2/3 cup brown sugar

2 teaspoons cinnamon

Powdered sugar mixture (make while cake is baking):

1 cup powdered sugar

2 tablespoons milk or just enough to be able to drizzle

l teaspoon vanilla or butter flavoring

Preheat oven to 375 degrees. Mix cake mix, oil, water, 1/2 teaspoon butter flavoring, eggs and instant vanilla pudding together well. Set aside and then combine the cinnamon mixture. Take a jelly roll pan sprayed with Pam and spread part of batter in pan alternating the batter and the cinnamon mixture. Bake for 30-40 minutes until toothpick in center comes out clean. Drizzle powdered sugar mixture on cake immediately after taking out of oven.

Ireta Schwant, Blaine: "This recipe is easy and quite delicious."

TACO BAKE 2 pounds hamburger 3/4 cup chopped onion 15-ounce can tomato sauce 1 package taco seasoning 1 can refried beans 10-12 small flour tortillas 2-cup package Cheddar Repeat layers, topping with cheese. Bake in a 350-degree oven for 30 minutes. May top with lettuce, tomato, sour cream and taco sauce after it is baked.

Amy Feigley, Enterprise: "Any old family recipe is the best! This recipe belonged to my great-grandmother, Alma Rosell. I substituted the fat with butter." **OATMEAL COOKIES** 1 cup butter, softened 1 cup sugar 1/2 cup brown sugar 1 teaspoon vanilla

2 eggs 2 cups flour 1 teaspoon baking soda

1/2 teaspoon salt 2 cups oats

1 cup cooked raisins

8 tablespoons liquid from the cooked raisins

In a mixer, combine the butter, sugars and vanilla until combined. Add the eggs and mix well. To this mixture, add the flour, baking soda. salt and mix well. Add the oats and the cooked raisins and liquid from the raisins. Mix until combined. Bake at 350 degrees for 12 minutes (longer if you would like).

> Lacey Autrey, Dwight: **ICED ALMONDS**

1/4 cup butter 2 1/2 cups whole un-

blanched almonds 1 cup sugar

1 teaspoon vanilla extract In a heavy saucepan melt butter over medium-high heat. Add almonds and sugar. Cook and stir constantly for 7-8 minutes or until syrup is golden brown. Remove from the heat; stir in vanilla. Immediately drop by clusters or separate almonds on a greased baking pan. Cool. Store in an air-tight container. Makes 12 servings.

Rose Edwards, Stillwater, Oklahoma:

CRANBERRY ROCKY ROAD CANDY

4 cups semisweet chocolate chips

3 cups miniature marshmallows

2 cups chopped dried cranberries

1 cup whole almonds, coarsely chopped

Line a jelly roll pan with waxed paper. Spray paper with cooking spray. In microwave melt chips about 1-5 minutes until smooth (watch close; cook just to melt as microwave times vary). Stir in marshmallows just until blended. Spread mixture in pan. Sprinkle with cranberries and almonds. Press gently to adhere to chocolate. Refrigerate 1 hour or until set. Break candv into

3 cups flour 1 tablespoon baking powder 1 teaspoon salt

4 eggs 1 cup oil

1/2 cup orange juice 1 teaspoon vanilla

Powdered sugar for dusting

Set oven to 350 degrees. Grease and flour a bundt pan. Stir 1/3 cup sugar and the cinnamon in a large bowl. Add apple slices and toss to coat. In another bowl, stir together flour, 2 cups sugar, baking powder and salt. Beat eggs and oil in a large bowl. Beat in orange juice and vanilla. Beat in flour mixture until smooth and well-blended. Will be thick. Spread half of batter in pan then top with half of apple slices. Repeat with remaining half of batter and apple slices. Bake 75-80 minutes or until toothpick inserted into center comes out clean. Transfer to wire rack and let cool 1 hour. Remove from pan and let cool. Dust with powdered sugar before slicing.

CHOCOLATE PECAN PIE

1 pie crust

chips

3 tablespoons milk

- 4 eggs
- 3 tablespoons melted butter
- 1 cup sugar
- 1/4 teaspoon salt

1 1/2 cups pecan halves

Heat oven to 425 degrees. Bake a single-crust pie crust 7 minutes. Remove crust from oven. Then set oven at 325 degrees. Microwave chocolate chips and milk in a bowl for 1 to 1 1/2 minutes. Stir until smooth. Pour evenly over crust. Beat eggs in a bowl; add remaining ingredients; mix well. Slowly pour mixture over chocolate layer. Place ring of foil around edges of crust to prevent extra browning. Bake 55-60 minutes or until filling is puffed and center is still soft enough to move when shaken gently. ****



By Ashleigh Krispense Brown-Sugar Cinnamon French Breakfast Puffs



A delicious spiced muffin made with cinnamon and cloves, then dipped in butter and rolled in brown sugar & cinnamon after baking! While they're delicious the next day, these are best served warm with a pinch of butter and coffee or cider! (These originated from a Pioneer Woman recipe, but have been tweaked along the way!)

For the puffs: 3 cups flour 3 teaspoon baking powder 1 teaspoon salt

mon

1/8 teaspoon ground cinna-

ur Daili

Grass & Grain

Volume 7

lecipe Collection

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1/2 teaspoon ground nutmeg

Jackie Doud, Topeka:

1 cup semisweet chocolate

- 2 teaspoons vanilla
- 1 cup dark corn syrup

1/8 teaspoon ground cloves 1 cup white sugar 2/3 cup shortening

2 eggs1 cup milk

- To roll them in: 1 1/2 cups (3 sticks) butter
- 1/2 cup brown sugar
- 3/4 cup white sugar 2 1/2 teaspoons ground cin-
- namon 1/4 teaspoon ground cloves

1/4 teaspoon nutmeg



Preheat oven to 350 degrees. In a large bowl, sift together the flour, baking powder, salt, nutmeg, cinnamon and cloves. Stir and set aside. In another bowl, cream together the 1 cup white sugar and shortening.



NHE VAIN IS OVER!

Volume 7 of the Grass & Grain

"Our Daily Bread" cookbook is finally here!!

Add in the eggs, one at a time, beating well after each. Dump in 1/3 of the flour mixture, mix well, and then

1/3 of the milk. Continue alternating between additions and mix well.

Page 5

Fill greased muffins tins about 2/3 full with the batter and bake for 20 - 25 minutes or until lightly golden. Let puffs sit about 5 minutes before continuing.



In a pie plate or bowl, melt the butter. In another pie plate, mix together the brown and white sugars, cinnamon, cloves and nutmeg, Dunk puffs in the butter and then roll in the cinnamon mixture. Set on a cooling rack on top of a baking sheet (to catch all of the drippies!) and either serve warm or let them cool and then store in an airtight container. Enjoy!

Ashleigh is a freelance writer and the gal behind the website, Prairie Gal Cookin' (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 ramblings!

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cheese, shredded 2-cup package Mozzarella cheese, shredded

Brown hamburger and onion together. Add tomato sauce, taco seasoning and refried beans. Layer bottom of greased 9-by-13-inch pan with 6 flour tortillas. Add half of the meat mixture and half of cheeses.

irregular pieces. Store in refrigerator.

Edwards, **Kimberly** Stillwater, Oklahoma: APPLE CAKE

2 1/3 cups sugar, divided 2 teaspoons cinnamon 5 apples, peeled, cored & thinly sliced



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Page 6 Grass & Grain, December 1, 2020



I've been back in the hills visiting, trying to maintain some social distance while we do. It's a challenge.

While here, my Uncle Franklin passed away. I want you to know about him. He would have been 77 on November 22, and he died on November 20.

Franklin married my mother's youngest sister, Emma Lee, 53 years ago. I was a child when they were courting and soon after they married he was deployed to Vietnam. He wrote long, long letters, almost every day and I can remember Emma Lee's coming home from work and grabbing his letters to read through supper. The war was the lead story on television every night

Researchers at four in ammonia.

U.S. universities have embarked on a five-year study that capitalizes on one of the Central Plains' most abundant natural resources - wind - to store energy

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They say their work which is funded by the National Science Foundation - could help stunt the population drain that is common in many rural com-

munities by tying together crop production, energy production and water use.

and in the paper every day. Then came the news

he was wounded. He man-

aged to get word that he

was okay but there were

uncertain times before he

was moved to the hospital

at Fort Lee where he spent

many months recuperat-

ing. He had been hit with

mortar fire and would for-

ever have a stiff leg from

rods and pins. As badly

injured as he was, he re-

fused medical treatment

so that other men could

be treated first. "There

were a lot of men hurt

worse than me," he said.

He was awarded medals

for his actions, medals that

were well-deserved and of

Star citation: "For gallant-

ry in action while engaged

in military operations in-

This is from his Silver

which he never boasted.

Vincent Amanor-Boadu, a professor of agribusiness economics and management at Kansas State University, said the project combines expertise of researchers at K-State, the University of Kansas. Washington State University and Western New England University.

Together, they form a project known as FEWtures, focusing on food, energy and water needs for rural communities. The group includes experts in engineering, hydrology, agricultural economics, business, political science, sociology and education.

"It is a multi-disciplinary study," Amanor-Boadu said. "That was intentionally done because of the complexity of bringing the implications

of food production, rural communities, water needs and energy requirements together."

volving conflict with an

armed hostile force in

the Republic of Vietnam

Specialist Four Easter

distinguished himself by

exceptionally valorous ac-

tion on 20 April 1968, while

serving as a construction

specialist with Company

C, 8th Engineer Battalion

during an enemy attack in

the Republic of Vietnam.

When his unit's position

came under a heavy vol-

ume of enemy fire, Spe-

cialist Easter was wound-

ed. Repeatedly exposing

himself to the hostile fire,

he refused medical atten-

tion and moved through

the open area to adminis-

ter first aid to his wound-

ed comrades. His gallant

action is in keeping with

the highest traditions of

the military service, and

reflects great credit upon

Many parts of Kansas and surrounding states have benefitted from wind energy to power their communities. "The problem with wind is that you can generate electricity, but if you don't use that electricity right away, you lose it," Amanor-Boadu said.

Amanor-Boadu said the FEWtures project will capitalize on nitrogen taken from the air; use the energy from wind; combine it with hydrogen from water; and use all that to make ammonia, a compound made of nitrogen and hydrogen.

"When you do that, you are actually putting energy into the bonds between the nitrogen and hydrogen," Amanor-Boadu said. "Then, when you want that energy back, you just split the nitrogen from the hydrogen. So, basically you can think of ammonia as batteries."

Peter Pfromm, a chemical engineer formerly at



himself, his unit, and the United States Army."

He sent film home for Emma Lee to develop and we had slide shows of his camp and felt that we knew his buddies. Some of them have been waiting a long time for Franklin to join them and I can only imagine their joyous reunion.

He worked hard and I will never forget getting up a field of hay with him and Emma Lee and a buddy using only pitchforks. It was ridiculously hard work but Franklin had us laughing through the whole thing. Then we went to town and got ice cream.

He played hard. He loved music and jamming with other musicians. He was eternally

good-natured. He leaves so many friends to mourn him. I really think he would have no idea how much he was loved and much he will be missed. He is one of the people I admire most in this world and I am so grateful he was part of our family. Nothing we can say of him adds to the life he led. That is his eloquent legacy.. Please keep Emma Lee in your prayers. Godspeed, Franklin. You are so loved.

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 route. Contact her at author. debgoodrich@gmail.com.

Food, energy, water: Researchers look for ways to combine natural resources to benefit rural towns

K-State but now working at Washington State University, is leading the ammonia-as-battery initiative of the FEWtures project. Amanor-Boadu said the ammonia produced through this process is more environmentally friendly than that produced using the industry standard Haber-Bosch process.

"When the energy stored in the ammonia is not needed, it will become available as fertilizer in food production," he said. "Farmers could pay less for ammonia produced this way."

Amanor-Boadu said K-State electrical engineers, led by Hongyu Hu, are working on methods to optimize production of wind captured at the local level.

"Extra energy left from the production of electricity could be used to treat wastewater that is generated in the community," Amanor-Boadu said. "Depending on how clean you want the wastewater to be, the more energy you will

need. If you treat water to the point of being able to use it for irrigation, then you are also reducing the draw of water from the aquifer."

Amanor-Boadu and his colleagues in agricultural economics and the College of Business will be working on a decision support system to help local officials determine what is the most economical use of ammonia for their community. A livestock community may direct more of the resource toward treating water for cattle, while a crop community may choose to treat more wastewater to increase the amount of water available for agriculture.

The project is one year old, with four more to come.

"A lot of the science is already complete," Amanor-Boadu said. "The rest of our work is calibrating these ideas to fit certain regions. The ball is in our court to build a decision support system in a way that it doesn't have to be customized in every community, but rather you ... get people's specific realities into the model for them to make their own decisions."

Research is currently being conducted in Kansas, Colorado, Oklahoma, Texas and New Mexico, involving 75 counties. Amanor-Boadu said the research team is seeking farmers and ranchers living in the region to participate in a short survey that is available online.

More information about the project is available online. Interested persons may also contact Susan Stover, SusanStover@ ku.edu; Mary Hill, mchill@ ku.edu; or Amber Campbell, ambercampbell@ksu. edu.



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Tract I: 66.3 Acres in W 1/2 SW 1/4 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 1/2 SE 1/4 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

across from tract I. 69.8 farmland acres with 63.8 acres crop & 5.2 grass. Seller will 2020 taxes. Purchaser will pay 2021 taxes. 2020 taxes were \$1,293.56.

Possession: Possession will be upon closing. **Terms:** 10% of purchase price as down payment day of auction, the balance will be paid upon closing on or before January 31, 2021. Down payment will be escrowed with Collier Abstract. Escrow fees will be split 50/50 be-tween seller & purchaser. Title insurance will be used, the cost will be split 50/50 between seller & purchaser.

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

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Note: Chad is retiring due to health. The equipment is in good condition most is less than 10 years old. There is a very large amount of Mac, Matco & Snapon tools. Check our website for pictures at www.thummelauction.com. For your safety please wear your mask. If you are not feeling well please call in your bids to 785-738-0067.

J & R AUTOMOTIVE * Chad * 785-307-0006 Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

Grass & Grain, December 1, 2020 Page 7 Hoy family's Flying W Ranch receives Kansas Leopold Conservation Award

Josh and Gwen Hoy's Flying W Ranch of Cedar Point has been selected as the recipient of the 2020 Kansas Leopold Conservation Award®.

Given in honor of renowned conservationist Aldo Leopold, the award recognizes those who inspire others with their dedication to land, water and wildlife resources in their care. The Hoys were recently presented with \$10,000 and a crystal award at a special ceremony at their ranch near Cedar Point.

In Kansas the award is presented annually by Sand County Foundation, American Farmland Trust. Kansas Association of Conservation Districts and the Ranchland Trust of Kansas.

Unconventional ranching on protected prairie is how Josh and Gwen Hoy describe what they do on Flying W Ranch, a bison and beef cattle ranch on the tallgrass prairie of the Kansas Flint Hills. The Hoys receive \$10,000 and a crystal award for being selected for the award.

"The Hoy family epitomize the land ethic that Aldo Leopold wrote about. Their public outreach ensures their conservation success stretches far beyond their property line," said Dan Meyerhoff, Kansas Association of Conservation Districts executive director.

"Congratulations to the Hoy family. Their dedication to conservation can be seen by their ranch stewardship practices. They also have been great advocates for the cause sharing the story of ranchland conservation with the public," said Chelsea Good, Ranchland Trust of Kansas vice chairman.

"Recipients of this award are real life examples of conservation-minded agriculture," said Kevin McAleese, Sand County Foundation president and chief executive officer. "These hard-working families are essential to our environment, food system and rural economy."

"We are pleased to

present this award to Josh and Gwen Hoy for their outstanding application of innovative grazing practices along with their dedication to the land, soil and livestock they steward," said John Piotti, American Farmland Trust President and Chief Executive Officer. "At AFT we believe that conservation in agriculture requires a focus on the land, the practices and the people. The Leopold Conservation Award recognizes the integral role of all three.'

Earlier this year, Kansas landowners were encouraged to apply (or be nominated) for the award. Applications were reviewed by an independent panel of agricultural and conservation leaders. Among the many outstanding Kansas landowners nominated for the award were finalists: Vance and Louise Ehmke of Healy in Lane County, and Dwane Roth of Manhattan in Riley County.

In 2015 the first Kansas Leopold Conservation Award was presented to Sproul Ranch of Sedan. Last year's recipient was Ted Alexander of Sun City.

The Leopold Conservation Award in Kansas is made possible thanks to the generous support of American Farmland Trust, Sand County Foundation, Kansas Association of Conservation Districts, Ranchland Trust of Kansas, Evergy, Farm Credit Associations of Kansas, ITC Great Plains, Kansas Department of Agriculture (Division of Conservation), Kansas Department of Wildlife, Parks and Tourism; Kansas Forest Service, McDonald's, The Nature Conservancy, **USDA-Natural** Resources Conservation Service and a Kansas Leopold Conservation Award recipient.

In his influential 1949 book, A Sand County Almanac, Leopold called for an ethical relationship between people and the land they own and manage, which he called "an evolutionary possibility and an ecological necessity."

Sand County Founda-



Pictured are Josie, Josh and Gwen Hoy, recipients of the Kansas Leopold Conservation Award. Courtesy photo

tion presents the Leopold Conservation Award to private landowners in 20 states for extraordinary achievement in voluntary conservation. For more information, visit www.leopoldconservationaward.org.

About Flying W and the **Hoy Family**

Their peers call them visionaries for how they ranch in sync with nature, thanks to innovative conservation practices.

Josh and Gwen brought their own deep agricultural roots to create a productive and sustainable business on 7,000 acres. The Hoys take pleasure in understanding how livestock and wildlife can flourish while improving soil health and water quality. They are passing their intense awareness and appreciation of the land to their daughter, Josie.

After removing miles of fence within their ranch,

they adopted an "instinc-tive migratory" grazing method for their livestock. It brings grass and forbs back to damaged areas, and protects riparian areas. In addition to grazing techniques, they control woody and invasive plants by patch burning and mechanical removal. instead of herbicides. An Audubon Bird

Friendly Ranch label may soon appear on the Hoy's beef to inform consumers that grazing practices were used that promote grassland stewardship.

With conservation easements on all land they own or manage, the Hoys' impact extends beyond their ranch gate. Collaboration with neighbors has put 4,000 contiguous acres of formerly-farmed ground in the Coyne Creek watershed back into native prairie or managed pasture.

Their advocacy has

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included holding unique events at the ranch. To promote the ecological benefits of controlled burns they've hosted a meal, live music and wagon rides before guests watch an evening prairie burn. The Kansas City Symphony has performed on their ranch at sundown to heighten appreciation of the tallgrass prairie.

Welcoming guests to the ranch is nothing new for the Hoys. For years they've welcomed guests to experience cowboy culture at the ranch. An authentic 1880s chuckwagon and a professional kitchen offers guests everything from rustic fare to gourmet dining. This 'guest

ranching' agritourism business has allowed them to reduce debt, acquire land, educate the public, and invest in conservation. With the COVID-19 public health crisis forcing them to stop hosting guests, they'll refocus their efforts with more marketing of their sustainably-raised, grass-fed beef.

Resilience is the real story of Flying W Ranch.

Josh founded the ranch with his cousin Warren Kruse in 1996. Tragedy struck in 2004 when Warren and his mother (Josh's aunt) were killed in a plane crash. Hardship followed, as the unexpected loss set back many of the projects they were working on. The conservation easements that were placed on the property are the result of many years of effort and a testament to Warren's legacy and vision.

Late last year a wildfire spurred by high winds burned the Hoys' home and business records. Starting over after such a loss once again felt daunting. However, they have preserved and are using conservation principles while building their new house.

Just as the tallgrass prairie has the natural resiliency to come back after a controlled burn, it's clear that whatever comes their way, this family is committed to living their conservation ethic.

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K-State ag economist explains benefits of profitability maps

Satellites, yield monitors and numerous other technologies have given farmers massive amounts of information about how crops perform on their land.

The challenge they often find, however, is how to make sense of that data.Terry Griffin, a precision agriculture economist at Kansas State University, said yield maps – developed from the volumes of data collected in a field – have become more common, providing guidance on soil moisture, yield and other characteristics of are not enough. "All of us who have been dealing with yield monitor data have been making maps for a few decades," Griffin said. "But rather than a map of the yield for that field, we can convert that to a map

of profitability, which then gives us site-specific information about whether parts of the field are profitable or not." Profitability maps, he

said, combine information on yield, sale price of the crop and the inputs applied to each section of a field. Maps are color-coded, clearly indicating to formers what parts of their field are making money, losing money or breaking even.

"This is especially important when we are looking at profitability maps over time," Griffin said. "One year may be an anomaly, but if we see certain parts of the field that are unprofitable year after year, then we have information to make different long-term decisions, especially if our land rental agreements are conducive to do so."

Simply put, profitability maps allow farmers to target the use of inputs in a way that will make the most money. For example, using information from a profitability map, a farmer may choose to apply fertilizer only in sections where soil conditions are conducive to growing successful crops. Doing so reduces inputs and the area that an applicator has to travel to nourish that field.

Farm mapping software – some of which farmers already own – can help them build their own profitability maps, Griffin said. The challenge, though, is getting accurate data on yield, fertility, inputs and crop prices.

n allow such farm equipment as combine harvesters or tractors to gather n information as they go about their work, should be properly calibrated to s. account for such things as s the combine speeding up or slowing down, or runo ning on a hillside.

> Information on inputs, particularly when a farmer is using a third-party to apply variable rate applications, can be much more difficult to collect, according to Griffin.

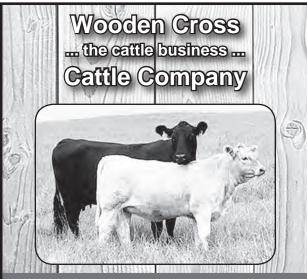
"One of the things I'd ask farmers to consider, as part of the agreement with your service provider, is to receive not only a map on paper, but also receive the electronic data from the as-applied applications for your record, and for the ability to create the profitability maps," he said.

Griffin was recently featured in a podcast from the University of Nebraska in which he talked in-depth about profitability mapping. A link to that podcast is available online through K-State's Department of Agricultural Economics. More information on precision agriculture and profitability also is available online from K-State Research and Extension.

the land. But those maps ing to farmers what parts the most money. For ex-Kansas NRCS announces funding for Rattlesnake Creek and Middle Creek Watersheds through NRCS Watershed Protection and Flood Prevention Program

Karen A. Woodrich, State Conservationist, Kansas Natural Resources Conservation Service (NRCS), and Senator Jerry Moran have announced that funding in the amount of \$846,800 has been secured through the Watershed Protection and Flood Prevention Program (WPFPP) for the Rattlesnake Creek Watershed and Middle Creek Watershed. \$725,000 will be awarded to Rattlesnake Creek, and \$121,800 to Middle Creek to address water conservation efforts in Kansas.

The NRCS Watershed Protection and Flood Prevention Program, commonly known as Public Law 566 (PL-566) helps units of federal, state, local, and tribal governments (project sponsors) protect and restore wa-



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tersheds of up to 250,000 acres. This program provides cooperation between the federal government and the states and their political subdivisions to work together to prevent erosion, floodwater and sediment damage, further conservation development, use and disposal of water, enhancing conservation, and the proper use of land in authorized watersheds. These PL-566 projects will help build on over 20 years of partnerships addressing natural resource concerns.

"These projects are important for Kansas," said Woodrich. "Water management, improving fish and wildlife habitat, and enhancing the surrounding agricultural community are just a few resource concerns that we can address in our conservation efforts across our state."

"The agreement reached earlier this year between the Big Bend Groundwater Management District 5 and the Fish and Wildlife Service will help satisfy the water needs of both Quivira National Wildlife Refuge and local producers," said Moran (R-Kan.). "I appreciate Acting Chief Norton's work to provide assistance from the Natural Resource Conservation Service to prepare a watershed plan, an important step forward to begin fulfilling the terms of the agreement at Quivira."

Middle Creek funding will provide for planning and design of Floodwater Retention Dam (FRD) Number 11. This dam will improve flood protection for property and agricultural lands downstream.

Rattlesnake Creek funding will be for the development of a watershed plan for the Rattlesnake Creek Basin in south central Kansas. NRCS will work with stakeholders to assess the existing resources, evaluate conservation alternatives, and develop a plan to conserve and protect the valuable resources of the area. The primary resource concern in Rattlesnake Creek Wa-

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tershed is the inadequate water quantity including low

surface water flows to Quivira National Wildlife Refuge. Rattlesnake Creek Watershed consists of 151,509 acres located in a prime agricultural region with 4,587 farms producing \$1.89 billion in crop and livestock sales annually. It provides surface flows to Quivera National Wildlife Refuge which consists of 7,000 acres of wetlands. Providing critical habitat for over 300 species of birds on the Central Flyway, including threatened and endangered species.

Kansas Farm Bureau supports Think F.A.S.T. initiative

Kansas Farm Bureau is proud to support a new online youth safety course Think F.A.S.T (Farm and Ag Safety Training), launched by American Farm Bureau. The program aims to help youth ages 14-17 learn how to avoid common safety hazards on farms and ranches.

"Safety should always be the first priority for farmers and ranchers of any age," says Serita Blankenship, Kansas Farm Bureau safety and ag education manager. "Think F.A.S.T. will provide young people with the tools and skills they need as they develop their careers in agriculture."

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The program and related materials focus on general safety, leadership and critical thinking skills applied to technical and agriculture-specific contexts. The training is available at no cost to anyone interested in learning about farm safety (Farm Bureau membership is not required for access).

The program includes ten modules that each take ten minutes to complete and follow-up competency quizzes. A curriculum guide for classroom and workshop settings is available for download.

Program modules are listed below.

Attention and Distractions with ATVs and UTVs Spatial Awareness with Livestock

Looking at Situations from Multiple Points of View with Tractors and Machinery

Machinery Task Breakdown and Job Safety with Personal Protective Equipment

Matching Tasks and Skills with Electrical Decision Making for

How to Complete a Task with Manual Labor Situational Manage-

ment with Bins, Silos and Pits Empowerment and Per-

mission to Say No with Chemicals & Pesticides Tough Conversations

with Slips, Trips and Falls Impact of Injuries with Shop Safety

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Truck Bed; 22' Triple Axle Heavy Duty Flatbed Equipment Trailer; Clark CFY 408 Propane Forklift; Sky Jack 4626 Scissorlift; Ingersoll Rand Portable Diesel Air Compressor w/2100 hrs & JD Engine; Selectatilth 5' Tiller (3pt); Post Hole Digger (3pt); 5' Whirlcut

Mower; Cub Cadet 42" Riding Mower; 1946 IH Truck Parts & Chassis.

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Land Leveler (like new). Power Tools: Lincoln Pro-Cut 55 Plasma Cutter; Lincoln Welder & Helmets; 12" Concrete Floor Saw w/Wisc eng; Soft Cut GS 800 8" Concrete Floor Saw; Lincoln Range 8 Welder on Trailer; Power-matic 10" Table Saw; Rockwell 8" Table Saw; De-Walt Radial Arm Saw; DeWalt Air Compressor; Power Matic 3250-4000 watt Generator; Delta 6" Jointer; Roice Crane Planer (old); Whacker Jump-ing Jack Packer; Jitter Bug Packer; Powr Tell 48" Power Trowel; 2 Master 48" Power Trowels; Charge Air Pro 5HP 20 gal Air Compressor; Ultimate MXII 695 Paint Sprayers; elec. Rebar Cutter; Paslode CF 325XP 30 Degrees Cordless Framing Nailer; Ridgid & Skil Wormdrive Saws; Lg. Selection of DeWalt Tools: Jig saw, Hand Grinders, 12" Miter Saws, 18V Impacts, 18V Drivers, 18V Saws, 18V Hammer Drills; Batteries & Chargers; Sand Blaster & Sand; Shop Vac, Ridgid, Craftsman Vacs; Daytona Bench Grinder; Clarke Drill Press; Air Post Driver; Porter Cable Pancake Compressor; Simpson 3100 PSI Pressure Washer; Ryobi Biscuit Machine; DW Transit & acces..; B&D Router Plane Kit; Porter Ca-ble & DeWalt Circular Saws; DeWalt & Milwaukee Drills; Senco & Bostich Coil Roofing Nailer; Senco Staplers & Nailers; Hardwood Floor Nailer; Milwaukee 1/2" Hole Hawg; Skil Jig Saw; Craftsman & Porter Cable Belt Sanders: Craftsman Router: Drill Doctor: Bostich Framing Nailer; *plus more tools not listed.* Hilti Power Tools: TE 1000 AVR Hi Drive Demolition Breaker Hammer; TE 3000 AVR Polygon Demo Jack Hammer; DSH 900 16"Gas Concrete Saw; TE 76 Industrial Hammer Drill; TE 76P, TE 76 ATC, TE 70, TE 5, TE 6-S, TE 7-C Hammer Drills; DX 35 Semi-Auto Fastening Guns; GX 120 Gas Powered Fastening Gun; SFH 18-A Hammer Drill/Driver Combo 18V; Drywall Screw Guns; Drywall & Metal Screws (Strips); Caulking Guns; Extra Chargers & Misc. Fasteners; 25 cal Shot.

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From field to scone: K-State grain scientists bring life to 4-H'ers projects

On an otherwise routine Thursday night in mid-November, about 40 Kansas 4-H members were transported by computer screen to a flour mill and baking lab on the Kansas State University campus.

Such is the life of online learning during a global pandemic, though this trip was symbolic. The one-hour journey marked the kickoff of a program – called Bring Your 4-H Projects to Life -- that aims to connect youth to college and career opportunities related to their interests.

"Not only does this provide an additional opportunity for youth to learn about their 4-H projects, but it is also purposeful programming to enhance our mission toward career readiness," said Lindsey Mueting, a 4-H youth development agent in McPherson County.

Mueting and Sarah Maass, a 4-H youth development agent in the Central Kansas Extension district, developed the series to run on the second Thursday of each month. Each month's program will connect youth to professionals currently working in an area related to one of 34 projects offered by Kansas 4-H.

"We are making connections with new people and using our amazing resource of the university to bring college and career ideas and opportunities to our 4-H youth," Mueting said.

On its maiden voyage, the program took the youth and their parents to the inner-workings of the K-State Department of Grain Science and Industry, where faculty members walked them through the life of a kernel of wheat as it is taken from a farm field, processed into flour, made into dough, and formed into scones for baking

into scones for baking. Jason Watt, the Buhler Instructor of Milling at K-State, explained the anatomy of a wheat kernel and explained how three parts – the bran, germ and endosperm – are all needed for whole wheat flour.

He used simple equipment to show the youth how a kernel is first cleaned, then crushed to its finest form. The process he demonstrated was tedious when done by hand; larger, more automated equipment gets the job done in just a fraction of the time.

"How long does it take to process one pound of flour?" one youth asked.

On a small scale – such as what Watt demonstrated – the answer is 30 minutes. But, he said: "The average wheat flour mill will make 750,000 pounds of flour a day, to upwards of 1.2 million pounds of flour a day. If you're talking about one pound of flour... well, probably just a few seconds."

Up the hallway, baking science instructor Aaron Clanton was preparing dough to make scones. As the online learning shifted to his baking lab, he began with a chemistry lesson on the important differences associated with using baking powder or baking soda in recipes.

"Both are leavening agents which cause baked goods to rise," he said, "but they are not created equal."

Clanton then showed how each product reacted to cold water, hot water and vinegar. Baking powder, which contains both an acid and an alkaline component, bubbled as it interacted with each ingredient. Baking soda, which does not contain acid, only reacts when it is combined with an acid, such as vinegar.

The lesson became more clear when Clanton showed examples of

Kansas Beef Council partners with popular blog to reach consumers

The Kansas Beef Council's (KBC) partnership with a national food and fitness blog, Meal Prep on Fleek, continues to disseminate accurate and science-based beef nutrition information to millennial and Gen-Z consumers in predominantly urban areas. This month, the checkoff-funded partnership features an Easy Steak and Potato Bites recipe that shares nutrition information about sirloin steak, including that it is both a nutritional powerhouse and a lean option that will fit anyone's macros. In addition, the post directs consumers to the Beef. It's What's for Dinner. website to learn more about how lean cuts of beef, like top sirloin, offer unbeatable taste and balanced nutrition.

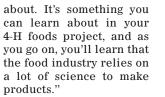
Content created through this partnership has been seen more than 1.2 million times in the first three quar-2020. Topics have included easy-to-make of recipes, how beef is an optimal protein for workout recovery and ideal cuts of beef for grilling and roasting. Collaborating with influencers like Meal Prep on Fleek is just one aspect of a larger, integrated strategy to impact beef demand. Checkoff-funded content produced and disseminated by KBC has been seen more than 12 million times in 2020, while nutrition and culinary programs get pro-beef information in front of numerous professionals and influential decision makers. Producers can visit the new Beef Hub at kansasbeef. org/BeefHub to learn more about KBC programs.



Aaron Clanton, a baking science instructor in K-State's Department of Grain Science and Industry, gave Kansas 4-H members a chemistry lesson on the important differences associated with using baking powder or baking soda in recipes.

scones made with each ingredient. The scones with baking powder rose to a good height and color with fluffy air pockets in the middle. The ones without baking powder were flat and crumbly.

"There is a lot of science involved in baking," said Clanton, a 4-H member as a youth. "It's a very rewarding thing to learn



Each of the youth received baking ingredients and a recipe to make their own scones at home. In the week following the online lesson, they were encouraged to post pictures, videos and description of their own scones online, Mueting said.

"The pandemic definitely brought about a new way of thinking for educators and our families," Mueting said. "I don't think something like this would have come about a year ago, but there are some changes we made that I hope we as extension professionals don't ever lose. Stepping outside our comfort zones to collaborate between units on projects has been a blessing that hopefully extends well past the pandemic."

Gordon Smith, head of the Department of Grain Science and Industry, said the interaction with the 4-H youth was mutually beneficial. He hopes some of those kids will develop an early connection to the university and eventually choose to get their own education on campus.

"Extension agents are part of our family," Smith said. "We're all committed to the education of students at any age. And we believe that you guys (the 4-H youth) are the future."

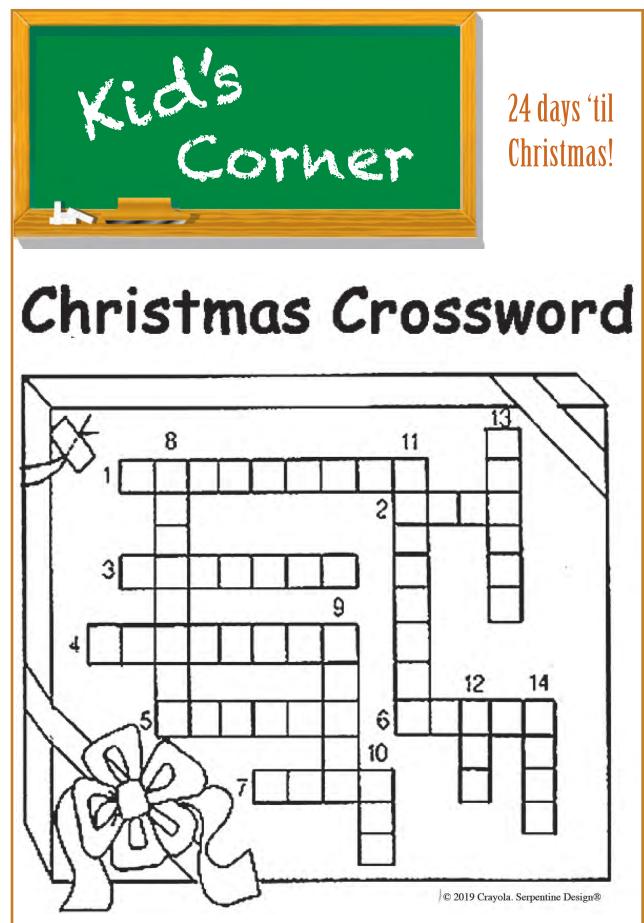
For more information on upcoming lessons through Bring Your 4-H Project to Life, interested persons can contact Mueting at Lmueting@ksu.edu; or Maass at semaass@ksu. edu.

More information about all 4-H projects is available from your local K-State Research and Extension agent, or online from the Kansas 4-H office.

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- 9. Jolly toymaker
- 10. Color of Santa's suit
- 11. Hang this from the mantle
- 12. Santa's Helper
- 13. Santa's transportation
- 14. Chistmas carol

Grass & Grain, December 1, 2020 Page 10 Virtual Crop Pest Management Schools to be held in December participate are asked to

Research and Extension, NW Region counties/districts are hosting two "Virtual" Crop Pest Management Schools, December 8th and December 10th starting at 7:50 a.m. with

"online check-in" to 5:00 p.m. Join them online

to learn about how to control the latest pests - weeds, insects, and diseases - affecting all crops in central and

western Kansas.

Commercial Applicators will earn one core hour and seven hours for 1A, certified by Kansas Department of Agriculture. Certified Crop Advisors (CCA) will also

earn eight pest management credits. These schools would also be an excellent educational opportunity for produc-

northwest.k-state.edu/ events/crop-pest-manga-The cost to participate gement-school or to any

in the NW region or call Craig Dinkel, Midway Extension, 785-483-3157; Cody Miller, Phillips/ Rooks Extension, 785-543-6845 or Clint Bain, Golden Prairie Exten-

is \$40. Those wishing to Extension Office website sion, 785-743-6361. JA grant to fund orphaned pesticide disposal of

The Kansas Department of Agriculture pesticide and fertilizer program recently received a grant from the U.S. Environmental Protection Agency, Region 7, to aid in the disposal of orphaned pesticide products.

Orphaned pesticide products are herbicides, insecticides, rodenticides and fungicides that can no longer be offered for sale in Kansas. This can include partially used products owned by private citizens, unsold products at retailers, or unused/partially used products owned by an applicator. The grant will support the pickup and disposal of the products by Clean Harbors, an environmental waste company.

Although local county weed department or household hazardous waste facilities will often take pesticide waste at little to no charge, sometimes the cost of disposal for the facility is too great or the facility is not permitted to take that particular type/kind of waste. The grant is available for those instances when the local facilities will not take the waste.

The orphaned pesticide waste grant applies to waste from farmers, ranchers, businesses or other private individuals. Grant funds can also pay for the disposal of abandoned pesticide waste left on property that was sold or waste that was dumped or abandoned. Funds are

limited, and disposal will be approved on a first come, first served basis.

To apply for funds to dispose of orphaned pesticide waste, contact the KDA pesticide and fertilizer program at 785-564-6688 or email product registration specialist Judy Glass at Judy.Glass@ks.gov. You will need to complete a form and receive approval to arrange for pickup of the pesticide waste. This grant helps KDA fulfill its mission to serve Kansas farmers, ranchers, agribusinesses and the customers they serve, while protecting natural resources and promoting public health and safety.

Kansas Forage and Grassland Council and Kansas State University to host Winter Forage Conference December 10 in Great Bend

Mark your calendars! The Kansas Forage and Grassland Council and Kansas State University will host their annual Winter Forage Conference from 9 a.m. to 3 p.m. on Thursday, Dec. 10, 2020, at the Great Bend Events Center – 311 10th St., Great Bend, KS 67530. The in-person event will also be available to KSFGC members via Zoom. Must request Zoom link.

Agricultural specialists will speak on a variety of topics such as pasture management involving weed control, current hay prices and statistics, insects, alfalfa information and research update.

Featured speakers include Kim Nettleton, Kansas Department of Agriculture, market news; Don Miller, Alforex Seeds: Romulo Lollato, wheat and forages extension specialist: Keith Harmoney, range scientist and Walt Fick, KSU range management specialist.

"We've got a great set of presenters and an agenda that contains something for nearly every forage grower in Kansas," said Roger Black, Cowley County farmer and rancher, and KSFGC president.

The event is free for current KSFGC members whose memberships extend into 2021, and registration is \$25 for non-members, payable at the door. To learn more, go to https://ksfgc.org/upcoming-events/. Everyone is encouraged to RSVP online at http://bit.ly/KS-FGCam, or contact Alicia Boor by e-mail at aboor@ ksu.edu or bwalton@ksu. edu, or by calling 620-793-1910. Again, don't forget to specify if you plan on attending in person or would

like the Zoom link. A fee of \$15 will be added for each additional farm member who attends (to assist with meal costs).

register by Sunday, De-

cember 6, by midnight.

Simply go to: http://www.

Forage growers are encouraged to join or renew your KSFGC membership prior to December 1, at https://www.afgc.org/i4a/ ams/public/member_start. cfm?mbrAppID=9&page-ID=3401, and you MUST be a paid KSFGC member in order to get the Zoom link.

A limited number of free KSFGC caps will be available on a first come, first served basis.

The Kansas Forage and Grassland Council was organized in 1988 to strengthen the forage base for the livestock industry through more efficient production and utilization. KSFGC serves to provide education and programs to strengthen the forage industry in Kansas.

Research on late summer, early fall rangeland burning looks convincing

For years, ranchers on the High Plains have used controlled burning, traditionally during the spring. to impede the growth of invasive plants on rangelands. In many ways, it's been effective. The practice helps control weedv plants that rob moisture and nutrients from more desirable nutritious grasses for cattle to graze.

But not every spring day lends itself to burning large swaths of the prairie, especially during high winds or spring rains, so sometimes those burns happen in a small window of time when conditions are favorable. That sometimes leads to hundreds of acres being burned in a short space of time and resulting smoke that wafts over communities large

and small, reducing air quality.

That smoke problem. plus evidence that one of the more invasive of weed species in Kansas, sericea lespedeza, was not being controlled effectively by spring burns, led Kansas State University range cattle scientist K.C. Olson and a team of researchers to study whether it was possible to better control sericea by conducting burns in the late summer or early fall and still have the desired nutritious grasses come back for cattle to graze the acreage.

"I just knew that everv plant on the prairie has a silver bullet. We had 60 vears of history of spring burnings (indicating that we were) not controlling sericea lespedeza," said

AUCTION

Olson, who in addition to his research responsibilities, teaches students in animal science. "I thought, 'What if we applied fire at a time when the plant at least has the appearance of vulnerability, at the point of flowering or the beginning of seed set?

That window of time is typically around late August or early September.

"We wanted to touch it, so to speak, before it had the chance to make viable,

mature seed." **Early findings**

He and a team of K-State scientists and students initially conducted limited studies of nine 14acre plots between 2014 and 2017 in Geary County. The average date the plots were burned, was on April 1. August 1 and September 1. By 2016, Olson said, they could tell that visually, they were having a strong effect.

"Before we were done we knew we had a pretty exciting solution - a pretty exciting talking point for the people of the Flint Hills," Olson said. Those first results ended with less than 2% sericea lespedeza basal cover on the two alternative fire treat-

were smaller, lighter and less robust than those that survived traditional spring burning.

"Today if you go to that site - and we haven't burned since the fall of 2017 - it's still very clean-looking."

'Eye-popping results'

The team is also looking into how the later season burning will affect other weeds, including Old World bluestems, which are technically not bluestems at all and have invasive characteristics. Olson said. Two that have become problematic on the High Plains are yellow bluestem and Caucasian bluestem.

'They're another thing we did to ourselves. They were either seed or hay that was brought into the state, was cultivated and in many cases have supplanted the native vegetation." he said.

K-State studies, as well as data out of Texas, indicate that later-season burning thwarted growth of vellow bluestem.

At the same time. Olson said, he was not aware of any studies looking at fire suppression of Caucasian bluestem, so in August 2018, the team burned 18 one-acre patches, plus had non-burned controls. The plan was for another burn a year later, but the climate was drier and did not have enough litter accumulation to burn. "But a year post-treatment when we again measured plant community characteristics, we saw some things that were just eye-popping," he said.

With one-year treatment there was a 38% reduction in Caucasian bluestem basal cover and a 20% to 40% increase in native spe-

cies' richness. **Cattle performance data**

Since the early studies, the research has expanded to larger regions and includes how cattle that graze the land perform in terms of weight gain and breakeven costs.

'The performance data is pretty exciting," Olson said, after three treatments and two summers of conventional stocker grazing.

In typical spring grazing, an animal will graze a certain amount of acreage which researchers call its average "footprint." Using that, they then looked at the economics of using fire alone to combat invasive weeds (at an average cost of about \$2.25 per footprint) versus the cost to apply a well-known herbicide (\$54 per footprint)

The team determined that, given real-world values of gain, animals grazing in a non-traditional fire regime could gain up to 70 pounds less per head and still break even with conventional burning and subsequent herbicide application to the "footprint." "You can give up 70 pounds of total weight gain and use fire instead of herbicide control and still break even," Olson said. In year one of the current study, the team looked at six pastures per burning treatment with conventional cattle stocking rates (with heifers) and saw small differences in cattle performance. Year two included the same stocking density but with steers rather than heifers. "We had strong differences in growth performance in cattle that grazed the summer-burned pastures compared with those grazing spring burned and fall burned pastures," Olson said.

"Basically, over two years, considering the performance of cattle grazing spring burned pastures versus summer burned. the pastures were equivalent. The cattle that grazed the fall burned pastures were just a few pounds behind - about 20 pounds, far below the 70-pound breakeven level. Though the team is

planning four more years of this research, the results so far are encouraging enough that Olson said he wants people to know about them now.

"I don't want to wait four more years to help these hills be healthier, he said. He's recommending that producers interested in trying summer or early fall burning visit with their neighbors who as "early adopters" have already been trying it.

"They're reporting fantastic results, some of which I've seen with my own eyes," he added.

Olson said the team is considering expanding the research beyond the Flint Hills, adding that studies by the University of Nebraska indicate that the Great Plains would benefit from more controlled fires, not less.

Selling items from GEORGE CROCKER ESTATE SOCIAL DISTANCING APPLIES. Stay home if you are sick!

SATURDAY, DECEMBER 5, 2020 • 10:00 AM

Saffordville Community Bldg., 2248A ZZ Rd., STRONG CITY, KS

Saffordville is about 10 mi West of Emporia on Hwy. 50 & about 7 mi. East of Strong City on Hwy. 50. There is a large Saffordville sign along the highway.

ANTIQUE & COLLECTIBLE FURNITURE, ACCESSORIES,

MILITARY, POLITICAL, FOBS, MEDALLIONS, SLAVE ITEMS,

ART (most by Geo. Crocker), BOOKS, CAMPAIGN BUTTONS

SIGNS. POSTERS & MORE!

See last week's Grass & Grain for listings & Check website for photos & updates www.hancockauctionandrealestate.com

Exit the highway and go South across the railroad tacks to auction site.



JAMESTOWN, KS **REAL ESTATE AUCTION** THURSDAY, DECEMBER 3, 2020 -— 6:30 PM AUCTION LOCATION: Hansen Auction & Realty (2 miles East of BELOIT, KS on #9 Hwy) **LIVE & ONLINE AUCTION!** (See our website for more photos & Information) www.hansenonlineauction.com

PROPERTY DESCRIPTION: The highlight of this property is a 41x41 shop building w/ living quarters built in 2014. This pole PROPERTY DESCRIPTION: building features a full concrete floor w/ concrete frame walls. The electric has been ran, it is spray foam insulated and sealing to be finished. The lower



floor includes (2) large electric overhead doors, walk through door, stubbed up tool room & bathroom. A large wide stair case leads to over 1600 sq. ft of lofted living quarters that is stubbed up for multiple bedroom/bathroom combinations. *Also included on the property are* (2) additional outbuildings: a 75x18 storage shed & 17x13 small mower shed. This property would be ideal for a sportsman/out-door hunting enthusiast or equally as pice for combined wants a shop with living quarters! Tract Description: THOMAS' ADDITION, S22, T05, R05, BLOCK 6,

Property Location: This property is located in Jamestown Kansas. It sits on the northwest corner of block six and is directly located in the corner of 4th & Cedes in the site of block six and is directly located in the corner of 4th & Cedes in the It sits on the northwest corner of block six and is directly located at the corner of 4th & Cedar in Jamestown. Taxes: 2020 real estate taxes are \$1,089.36. Seller will be responsi-

ble for all real estate taxes for 2020 and all prior years. Buyer will be responsible for 2021 taxes and all succeeding years. **Possession** Possession will be at time of closing. **Terms:** 10% of the purchase price as down payment day of auction, the balance will be due upon closing. Down payment will be escrowed with NCK TITLE, fees will be split 50/50 between seller & buyer. Title Insurance will be used, the cost will be split 50/50 between seller & buyer. Hansen Auction & Realty is acting as seller's agent on behalf of the sellers. All information is believed to be correct. However, neither the sellers nor the auction company make any guarantees expressed or implied. Statements made day of auction shall take precedence over any printed material.



www.hansen-auction.com Email: contact@hansen-auction.com

ments (Aug. 1 and Sept. 1) and more than 11% basal cover of sericea lespedeza on the spring (burning) treatment.

"Not only did we have less basal cover, we almost totally suppressed seed production in each of the four years that we burned in the off-season," he said.

Studies since then have borne that out. The sericea plants that did come back

FRIDAY, DECEMBER 18, 2020 – 10:00 AM Auction Held at Bethlehem Parish Hall, 402 Arrowhead Road **BREMEN, KANSAS**

66+/- ACRES MARSHALL COUNTY, KS GRASSLAND

TRACT LEGAL: 66.56+/- acres in the southeast corner less a tract in the Southeast Quarter of Section 4, Township 1 South, Range 6 East of the 6th PM, Marshall County KS

Farm Located: From Lone Elm Corner (Hwy. 77 & Cherokee Rd), go West 5 miles on Cherokee Rd. to 4th Rd., then North 2 miles to Arrowhead Rd. At

Arrowhead & 4th Rd. intersection, pasture starts 1/8 mile North on 4th Rd. (west side of road) and starts 1/8 mile West on Arrow head Rd. (north side of road). Signs are posted.

This farm is a fenced pasture with creek water that lies along two rocked roads in Herkimer Township. There is heavy timber along the creek that is considered good habitat for wildlife such as white-tail deer, turkey and coyotes. This location could be a home build site as rural water is nearby. It is located approx. 1/2 mile South of the Nebraska state line and some nearby towns include 13 mi. Northeast of Hanover, 16 mi. Northwest of Marysville and 20 mi. South of Beatrice, Nebraska.

TERMS: Cash with 10% down payment/earnest money on day of sale with the balance due in full on or before January 15, 2021 with delivery of deed and marketable title. Full possession will be given a closing. Seller & Buyer equally split cost of standard title insurance and attorney fees for preparation of contract-deed-escrow. Seller's concession for the cost of building a fence along the northern mos boundary established with the recent survey.

This land is located in a good farm community and should merit the serious consideration of anyone wanting an individual unit or add-on acres. Look it over before sale day and come prepared to BID! Statements made day of sale take precedence over any advertised or previous statements

CONSTANCE "CONNIE" KRAEMER KAA For inquiries, contact Brokers & Auctioneers KAA **OLMSTED REAL ESTATE** Tom Olmsted: 785-562-6767 or Rob Olmsted: 785-353-2210 www.olmstedrealestate.com

"Every year we're giving up more land to woody encroachment and catastrophic wildfires. We have only begun to tap the potential for prescribed fire for ecosystem management and improvement. It's my hope we can take an open mind moving into the future," he said.

"Using fire is low-cost and low-risk during most of August and early September and helps us be a better neighbor with respect to smoke management. It's an excellent way to take back those invaded acres and build carrying capacity of your rangeland."

An Agriculture Today radio interview with K.C. Olson on the topic is available online.

H 91.8 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 mi. west of Marysville & 1/2 mi. north of Hwy 36

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

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 details & maps.

See November 17 Grass & Grain for details & for more information & for a copy of the sale bill visit our website: donaldprellrealtyauction.com

SELLERS: EDINGTON FAMILY TRUST

DONALD PRELL REALTY & AUCTION, LLC donaldprellrealtyauction.com

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



Grass & Grain Area Auctions and Sales

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

Always great online Equipment auctions – www.purplewave.com

November 30 — Tractors, combine, hay equipment, machinery, vehicles, 1997 Freightliner, trailers. shop tools & equipment, irrigation equipment, riding mower, golf cart & miscellaneous held at Garden City for Mark & Jamie Schweer. Auctioneers: Larry Johnston Auction.

November 30 - 318 acres m/l of Stafford County land consisting of irrigated land held at Macksville (and by phone and online: www.hammauction. com) for Gary D. Seibert Trust & Nina M. Seibert Trust. Auctioneers: Hamm Auction and Real Estate, LLC.

December 3 — Real Estate auction consisting of a 41x41 shop building with living quarters, has

full concrete floor with concrete frame walls, overhead doors, tool room & bathroom. loft, also a 75x18 storage shed and 17x13 small mower shed (located in Jamestown) held at Beloit (with online bidding at www.hansenonlineauction.com). Auctioneers: Hansen Auction & Realty, Luke Hansen.

December 3 - 335 acres m/l of Neosho County land consisting of grassland, cropland, rock quarry held near Erie for Pat & Julia Johnson and Todd Johnson. Auctioneers: Larry Marshall Auction & Real-

December 3 - Bred Cow & Heifer special sale selling 1st calf bred heifers, bred cows, fall cow/ calf families held at Beatrice 77 Livestock, Beatrice, Nebraska.

December 4 - Large Construction Company Liquidation including vehicle & equipment, skidloader & attachments, power tools, Hilti power tools, concrete & construction supplies, shop supplies & miscella neous & much more held at Hutchinson for A & A Builders. Auctioneers: Morris Yoder Auctions.

December 5 — Antique

& collectible furniture, accessories, military & political items, FOBs, medallions, slave items, artwork, books including several 1st editions, campaign buttons, signs & posters held at Strong City for George Crocker Estate. Auctioneers: Hancock Auction & Real Estate, Paul Hancock & Jase Hubert.

December 5 — Farm equipment including Bobcat CT 450B tractor & loader, balers, crimper, accumulators, irrigation guns, seeder, harvester, orchard sprayer, tractors with loaders. Gator, pecan harvester 2 hoop house & more held at Butler, Missouri for Jay & Charlotte Payne. (some items available at www. EquipmentFacts.com). Auctioneers: Marty Read Auction Service.

-1994December 5 Ford F350 wrecker, equipment & tools including post lifts, tool boxes, 75 cent Coke machine & more held at Junction City for J & R Automotive. Auctioneers: Thummel Real Estate & Auction, LLC.

December 5 — 119.1 taxable acres m/l of Marshall County farmland & native grass with good hunting & possible investment property held at Beattie for

Jane Kittner, Katherine Krueger & Joseph Kittner. Auctioneers: Donald Prell Realty & Auction, LLC.

December 5 & 6 (2 locations) - Selling December 5: Lots of antique tools, newer shop tools, glassware, antiques & collectibles, appliances, furniture, firearms & ammo, yard tools & more held at Wamego; Selling December 6: 3,300+ sq. ft. 4BR, 2.5BA home located on east side of Manhattan, 2 car garage & additional detached 2 car garage; also selling 2009 Chevy Silverado & 2012 SRX Cadillac held at Manhattan. Auctioneers: Crossroads Real Estate & Auction, LLC.

December 5 — Consign ment auction consisting of tractors, cars, trucks, SUV, ATV, trailers, farm equipment, lawn equipment, skid steer attachments, livestock equipment, lumber, vintage items, hay & straw & miscellaneous held at Wetmore for St. James Catholic Church. Contact Bill Burdick (785-547-5082) or Ron Burdiek (785-207-0434). Auctioneers: Wayne & Craig Wischropp, Dan Harris, Dan Deters, Dale Wilhelm, Rodney Burdiek.

December 6 — Toys including truck & car banks. metal airplanes, 1/16 scale tractors, 1/32 & 1/64 scale cars, trucks, farm equipment, Hot Wheels, cast iron toys, limited ed. Mid States farm equipment, train engines, cars & accessories & more; Coins in-

Grass & Grain, December 1, 2020 cluding gold coins, silver coins including Morgan silver dollars, Peace dollars. Walking Liberty half dollars, Indian Head pennies & many more held at Scott City for Judy Munch,

Auctioneers: Berning Auction. Inc. December 7 — 78 acres m/l of good Native Grass pasture with pond & creek at SW of Osage City for Estes Trust. Auctioneers: Wischropp Auctions.

Jim & Janell Krehbiel.

December 8 - 998.88 acres m/l of land in Dickinson & Geary Counties: T1: Homestead 3BR, 4BA home & 36.74 ac m/l; T2: 111.77 ac. m/l hill pasture, cropland; T3: 127.04 ac. ml cropland; T4: 39.82 ac. m/l cropland; T5: 156.78 ac. m/l cropland; T6: 117.16 ac. m/l grassland; T8: 207.32 ac. m/l grassland; T9: 44.13 ac. m/l cropland; T10: 79.11 ac. m/l cropland held at Junction City for Andrew J. Schuler Jr. Trust No. 1 & Rose Anna Schuler Trust No. 1. Auctioneers: United Country Real Estate / Crossroads Auction & Realty.

December 9 — Absolute land auction consisting of 262 m/l acres Jewell County grass & creek bottom land, wildlife habitat held at Esbon for SA Holdings. Online & phone bidding available (www.farmandranchrealty.com). Auctioneers: Farm & Ranch Realty, Inc., Donald L. Hazlett, broker/auctioneer.

December 11 - 191.8 taxable acres m/l of Mar-

shall County farmland & native grass with good hunting & possible investment property held at Marysville for Edington Family Trust. Auctioneers: Donald Prell Realty & Auction, LLC.

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December 12 - Antique furniture (most 1880s-1900s), Western items, advertising items, tovs & much more held at Strong City. Auctioneers: Hancock Auction & Real Estate, Paul Hancock.

December 12 - 153+/-Guns, mostly older/vintage military, Harley Davidson, ammo, swords, knives/bayonets, tools & more held at Osage City for a private seller. Auctioneers: Wischropp Auctions.

December 15 - Real Estate: Tract 1: 66.3 acres m/l Smith County farmland, grass & creek; Tract 2: 69.8 acres m/l Smith County farmland held at Gavlord for Aaron James. Auctioneers: Thummel Real Estate & Auction, LLC.

December 17 — 137.99 acres m/l of Shawnee County land including tillable & pasture, deer & wildlife habitat, building site held at Wakarusa for Don & Chris Perry. Auctioneers: J&D Auction Service, LLC, Jase Hubert & Dwayne Coble.

December 18 - Land auction consisting of 65 acres m/l of pasture held at Bremen for Constance Kraemer. Auctioneers: Olmsted Real Estate & Auction.

unwanted house guests Take steps now to prevent

By Adaven Scronce, Wildcat Extension **District diversified** agriculture and natural resource agent

The weather has gotten cooler and many types of wildlife are preparing for winter. While we may have been enjoying the leaves changing colors and preparing for the coming holidays, wildlife has had other priorities. They have been busily working on storying food for the winter and/or looking for their winter homes. Different types of wildlife prepare for winter in different ways, some will migrate south to warmer weather, some will hibernate for the winter, and others will adapt to the change in weather. For smaller wildlife, such as rodents, looking for a winter home may result in them moving into houses, garages, grain storage facilities and machine shops.

A common unwanted house guest when the temperature gets cooler is the house mouse. House mice are described as small rodents that have small black eyes and relatively large ears. They are usually light gray with a cream belly and weigh about half an ounce. Adult house mice are about five and a half to seven and a half inches long, including their tail. Effective mouse control involves

sanitation, mouse-proof construction and population reduction. Be on the lookout for mouse activity and don't hesitate to start a mouse reduction process at the first sign of mice. Common signs of mice being active in an area are: droppings, fresh gnaw marks, tracks, and nests made of finely shredded paper or other fibrous materials. Other signs that mice are in a building include an ammonia-like smell and sounds of gnawing, squeaking, or climbing in walls and ceilings.

With the cooler weather, mice will be looking for warmer places to build their nests and easy access to food. Prevention is the best way to reduce the likelihood of mice moving into houses and buildings. Now is the time to check houses and other buildings for cracks and get them sealed. Mice can squeeze through cracks or holes a quarter of an inch wide. Cracks and holes can be temporarily be plugged with steel wool, but a more permanent fix of filling cracks with caulking or a barrier over the holes is the best way to prevent mice from coming through those spaces. After mouse-proofing buildings, efforts to prevent and control mice should be focused on sanitation and population control. Sanitation to prevent

mice includes the elimination of shelter that mice could use to hide, nest, and raise their young in. To remove shelter, keep garden areas picked up and free of access plant debris, and move firewood and scrap piles of wood or metal that give mice places to hide and build nests away from buildings. In buildings, remove cabinet clutter and store supplies off of the ground. As well as removing shelter, it is important to remove food sources by removing pet food and bird seed or storing them in secure containers.

If after rodent-proofing and sanitizing mice are still drawn to a building and find their way in, the next step to take is population control. Trapping is the preferred method of mouse population control in houses and other structures when there are only a few mice. Trapping provides visible results and does not require hazardous rodenticides. Dead mice can be removed, avoiding odors that can result when using poisons to control mice in buildings. Simple wooden snap traps can be found at most grocerv or hardware stores and are inexpensive and effective. Newer style plastic traps that are designed to be set with one hand and allow disposing of the mouse without touching them are also available. Both styles of traps will need to be loaded with bait. Peanut butter. bacon. dried fruits, and seeds are bait options that are attractive to mice and easy to use. If baits are not successful at attracting mice, a cotton ball can be tied to the trigger to attract mice looking for nest material. When placing traps, place them in areas where there are signs of mice activity. Place traps next to walls, ideally behind objects and in a dark area, so mice will pass directly over the trigger. In garages and warehouses traps can also be set on ledges and pallets. If you do not want to use the traditional style of traps, another option is to use glue boards. However, do not place glue boards where children, desirable wildlife and livestock can come into contact with them. Glue boards will not be as effective in dusty

moving into buildings it is important to rodent-proof buildings by sealing all cracks and holes and reduce access to food and shelter by removing plant debris, storing firewood away from buildings, and edu or (620) 331-2690

removing or securely stor ing pet food and bird seed.

For more information. please contact Adaven Scronce, Diversified Agriculture and Natural Resource Agent, adaven@ksu

New 15-country trade agreement formed

Fifteen Asian and Oceanic countries formed the world's largest multi-country trade agreement, accounting for one-third of the global economy and half the global population. The Regional Comprehensive Economic Partnership (RCEP) includes Australia, China, Japan, South Korea, New Zealand, Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand and Vietnam.

While RCEP is touted as the world's largest trade agreement, USMEF does not expect a major impact on red meat trade," Joe Schuele, vice president of communications for U.S. Meat Export Federation, said. "In many cases the red meat-exporting countries involved in RCEP had already secured lower tariff rates through bilateral trade agreements or other regional pacts. For example, Australia and New Zealand each already had trade agreements with all of the participating countries.'

ESTATE AUCTION SATURDAY, DECEMBER 12, 2020 • 10:00 AM 2248A ZZ Rd., STRONG CITY, KS. At Sattordville Community Bidg Saffordville is abut 8 miles East of Strong City & about 10 miles West of Emporia on Hwy. 50. There is a large Saffordville Sign. Exit the highway and go South across the Railroad tracks to auction site. ANTIQUE FURNITURE (most cards w/Indians; Arrowhead col-1880s-1900s): Oak Barbers cabinet w/leather strops; Oak lection -framed: Padlock & watch fob marked 101 ranch; Cherry Jewelers fancy cabinet w/U roll Brand tobacco fob; Indian belt top; Oak S roll top desk; Oak 3 drawer file cabinet; 6 Oak 'Old buckle; 1 piece of old pottery, damaged; Western books. Man Winter' captains dining ADVERTISING: Esso Elephant chairs; Oak high boy dresser w/ Kerosene porcelain sign; Ford Tractor Ferguson system wheelmirror, 2 lingerie drawers at top; Oak fancy dresser, small mirror at top, 60" tall; 2 oak library ta-bles; Oak dressers; Glass curio less implements sign; Curlee Clothes thermometer; quite a few posters/prints & original poster advertising, some framed, some not; Marlboro lighted sign; Budweiser Neon cabinet; Oak pulpit top; Oak wall cabinet-handmade & a corner cabinet; Gum wood pie safe, punched wood sides; Oak Ar-King of Beers; Schlitz Malt Liquor "Bull"; Hills Bros Coffee Thermometer; Tiger tobacco moir: Oak 3 drawer file cabinet: 3 parlor tables, fancy legs, oak tin; Fees Paramount Dairy 1 qt. and walnut; Oak glass front tobacco showcase-Cigets single sweets tobacco; Oak step back Crock; Millers Creamery quart crock; Banks w/advertising; Inkitchen cabinet; Oak washstand; dependent Stove Co. Elephant; Winchester clock; Harder Fur-niture dustpan; Delaval cream Oak round table, Octagon base & 4 double pattern back chairs; Eastlake Walnut green marble separators cabinet-13" x10" Schlitz "The Maids Dilemma" cardboard; Conoco sign-14" parlor table; Walnut dresser w/ rose marble insert; Hall seat w/ beveled mirror; Oak flat front x 48"; Coca Cola tin sign 48" Grandview Ter street signs. TOYS: Huber steam roller; Allis china hutch; Oak curved glass hutch, fancy top w/leaded glass & also curved glass, 1 large glass missing; Walnut marble top dresser; Oak Barristers Chalmers tractor/scraper; cast 3 horse fire wagon-Jerry Smith Collection; Fordson tractor; sevbookcase, 30" wide; Newer 5 eral horses/riders, some Indidoor Lawyers bookcase, 5' wide, 6' tall; Oak 7' tall headboard full ans: clown still bank: Advertising banks; Oil can banks; Horse pull size bed; 88"x36" flat front case. toys; Cast toy sewing machine. WESTERN: 1890s Hackney size harness display horse, OTHER: Cast base fish tail count er scales; cast dehorners; brass cast iron legs, Cast ears & eye farriers shoe gauge; farriers tools sockets, glass eyes, balance of 1975 Fine Silver Medallion-Sov ereign Nation of the Osage w/ body composition- on casters; Sylvester Tinker, Peace & Friendseveral single spurs from Jerry ship on back-weighs 8-9 ounces Blackhawk/The Sauk tribe coin Smith collection; Horn art; Chalk Indian busts; several Pictures & Prints w/Western theme, some w/arrowheads; cast Rooster windmill weight,-10' #2; wooden original, some not; Walking sticks, 1 w/Silver top; Univer-Walking hammers; hand crank corn shellsal coffee mill; Tobacco cutter; ers; cast "stars"; neck yoke tack or Butcher knives w/names; a few pair bookends w/Indians; Horse coat hangers; cast tack hangers; crock water dispenser, marked Cast door stop; Stereoptican Battery Water filter



areas, unless covered, and in extreme temperatures as their tackiness will be reduced. And of course, cats are also an option for mouse control and population reduction.

As the weather continues to get colder the likelihood of mice coming into houses and other buildings will increase. To help prevent mice from

ČΖ H 0 1 N7 4 \ SUNDAY, DECEMBER 6, 2020 - 10:00 AM LOCATION: Wm Carpenter 4-H building, at the Fairgrounds, north edge of SCOTT CITY, KANSAS

TOYS: Truck & car banks; Metal airplanes; JD, Allis, Case, IHC 1/16 scale tractors, some NIB; 1/32 & 1/64 scale cars, trucks, farm equipment; Hot Wheels; Cast iron toys; Limited Edition Mid States farm equipment, in box; Train engines, cars & accessories; *Many* other toys to unpack yet!

COINS

Gold Coins: 1908-1909-1912-1924 \$20.00 St Guadens gold coin, MS60; 1866 \$5.00 Liberty gold coin, VF; 1909 \$5.00 Indian gold coin, XF; 1910-1912 \$10.00 Indian gold coin, XF

SILVER COINS (Morgan Silver Dollars): 1878 (8-tail feathers) MS60; (2) 1878 (7-tail feathers) MS60; 1878S-1878CC-1879-1879O-1879 (2nd & 3rd rev.), 1879, CC; (6)1880 O; (4) 1880 CC 1881 S, CC; (4) 1882; 1882 CC; 1883 S, O, CC; 1884 S, O, CC 1885 S, O, CC; 1886 O, S; 1887 O, S; 1888 S; 1889 O, S, C; 1890 O, S, 2-CC; 1891 O, S, CC; 1892 O, S, CC; 1893 O, S, CC; 1894 O, S; 1895 O, S; 1896 O, S; 1897 O, S; 1898 O, S; 1899 O, S; 1900 O, S; 0, S; 1901 O, S; 1901 O, S; 1902 O, S; 1903 O, S; 1903 O, S; 1902 O, S; 1903 O, S; 1903 O, S; 1902 O, S; 1903 O, S; 1903 O, S; 1902 O, S; 1903 O, S; 1903 O, S; 1902 O, S; 1903 O, S; 1903 O, S; 1902 O, S; 1903 O, S; 1900 O, S; 190 1903 O, S; 1904 O, S; 1921 D, S. *Most sets have the plain, O, S*, CC. (Peace Dollars): 1921; 1922 D, S; 1923 D, S; 1924 S; 1925 S 1926 D, S; 1927 D, S; 1928 S; 1934 S; 1935 S; Several IKE silver dollars; (Walking Liberty Half dollars): 1941 D, S; 1942 D, S; 1943 D, S; 1944 D, S; 1945 D, S; 1946 P, D, S; 1947 D - Several of each year; Lincoln pennies 1912 -1955, books, frames, singles, rolls; (3) 1909 VDB Lincoln penny; (Indian Head pennies): 1893 MS60; 1862 MS60; 1883 MS60; 1863 MS60; 1880 MS60; 1886 MS60; 1886 MS60; 1904 MS60; 1900-1909; Mercury Dimes; Franklin halves Rolls of Peace dollars and Walking Liberty haves; Some frames of coins; *Type sets*: Indian Head pennies, Barber nickels, Buffalc nickels, Barber & Mercury dimes, Standing Liberty quarters, Barber-Walking-Franklin-Kennedy halves; Many other coins!

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JUDY MUNCH * JIM & JANELL KREHBIEL, OWNERS TERMS: VALID ID required to register. No Exceptions! Cash or approved check day of sale. NO Credit Cards! Everything sold as is. No warranties expressed or implied. Not responsible for theft or accident. Announcements day of auction take precedence. LUNCH served. NO pets allowed in bldg. NOTICE: Due to Covid-19, you are responsible for your own SAFET and HEALTH. The auction company nor the seller will be held responand the term in the defined of the place, so please be respectful. We know auctions are a hard place to social distance, so we will have masks and hand sanitizer available. *Enjoy the auction!* BERNING AUCTION, INC., 812 West M St., Leoti, KS 67861

620-375-4130

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TERMS: Cash, approved check or credit cards with 4% fee. Inspec-tion day of auction and remove all items day of auction. SOCIAL DISTANCING APPLIES. Stay home if you are sick!





ON THE EDGE OF COMMON SENSE

Both Sides

Yeah, he wished he was a cowboy but just at times like this

(Yup, he's glad that he's a cowboy but there's times on days like this) When he spent the day

a-horseback and had time to reminisce

10.

(When he spends all day a-horseback thinkin', 'Wonder what I've missed?')

Never thinkin' about Monday, 'bout the real life he led

(Never knowin' if it's Monday, if he'll ever get

rai

lers

ahead) 12 & 14 Bale



Cradles can be lifted w/one hand • Cradles are removable Safety locks for cradles in both the up & down positions, located at the front of trailer

• 1-Year Mfg. Warranty on axles & tires • 2-Year Warranty on trailer Heavy duty tubular construction

10-bale trailer has 7,000 lb. tandem axle with brakes & 10 ply tires

12-bale trailer has 10,000 lb. tandem dual axle w/brake & 10 ply tires 14-bale trailer has 12,000 lb. tandem dual axle w/brake & 14 ply tires

Comes with a spare tire

Now have options of hydraulic dump & 14 ply tires



Just the smell of sweatv horses and the peace inside his head

(Just the smell of sweaty horses and a blanket for a bed)

How he really coulda been one if the cards had fell that way

(How he grew up punchin' cattle, had no other cards to play)

But he never had the option he had other cards to play

(So he never had the option, it was bound to be this way)

And he sees the hiredon wranglers when he passes them the reins

(And he sees the weekend cowboys when they're handin' him the reins)

And he almost wants to join 'em but his common sense refrains

(And he wonders could

he make it in their life of ball and chains)

So he joins his boon companions and they toast their saddle sores

(But he joins his fellow cowboys and they do their nightly chores)

They revel in the cowboy life and forget the wrangler's chores (Then doze off while the

campfire talk drifts in from distant shores)

But by Monday they're a memory as he bills another page

(But by Monday he's back ridin' and the open smell of sage)

And forgets the car he's drivin' would've paid their yearly wage

(Reminds him he would not survive in a weekend cowboy's cage)

www.baxterblack.com

Kansas cattle on feed up 4%

Kansas feedlots, with capacities of 1,000 or more head, contained 2.52 million cattle on feed on November 1, according to the USDA's National Agricultural Statistics Service. This inventory was up 4% from last vear

Placements during October totaled 430,000 head, down 4% from 2019. Fed cattle marketings for the month of October totaled 440,000 head, up 10% from last year.

Other disappearance during October totaled 10,000 head, unchanged from last year.

To till or not to till...

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

A recent social media post jokingly pointed out the degree to which 'recreational' tillage occurs. Essentially, it was saying the quicker we finish harvest, the more tillage we'll see, simply because we have time. So while there is truth to some tillage being recreational, there are times when it might be necessary.

One instance where tillage may become a necessity is for compaction issues. If you think that's the case on your farm, now is a good time to do some monitoring. Start by digging down - to 18 inches if possible - and look for dense layers that can restrict roots. If roots have been able to penetrate the platy soil layer, it probably isn't root-limiting. If you note horizontal roots or roots that are stubby and gnarled, lacking root hairs, tillage might be a consideration.

If you do decide to deep till there is only need to till about an inch below the dense zone. Doubling tillage depth quadruples the power requirement, so going too deep is a waste of time and energy. Deeper tillage may also destroy soil structure.

Bottom line: there's only a benefit to deep tillage when compaction is root-limiting. Tillage does temporarily loosen soils, but they tend to re-compact and become denser with time because soil structure is broken into smaller pieces. That means deep tillage effects will only last for a short period unless traffic patterns are controlled, or tillage system is changed. Effects may be negative if soils are too wet and soil smearing instead of soil fracture is the result.

For additional information on determining if deep tillage is needed - or when it's being effective, check out this KSU Agronomy eUpdate article, available upon request or online at: https://webapp.agron.ksu.edu/agr_social/eu_article.throck?article_id=1184. NOTE: there may be other options to combat compaction as well. That's another article for another day...

Farmers & Ranchers **AUCTIONS EVERY MONDAY & THURSDAY**

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

RECEIPTS FOR THE WEEK: 527 CATTLE, 148 HOGS

NO SALE WAS HELD **THURSDAY, NOVEMBER 26**

МС	ONDAY, NOVEMBER	23, 2020:	1 bwf 1 blk	Marquette Lost Springs	1460@65.00 1590@68.00	FARMERS & RANCHERS HAS SWITCHED BACK to Cattle USA.com for our online auctions.
1	HOGS		2 blk	Lost Springs	1417@71.00	
8 Fats	Tescott	311@38.00	2 blk	Lost Springs	1635@69.00	UPCOMING SPECIAL SALES:
29 Fats	Tescott	319@36.00	2 blk	Lost Springs	1585@69.00	All Sales are on Tuesday at 11 AM
20 Fats	Moundridge	270@42.00	1 bwf	Culver	1865@68.00	
1 Sow	Esbon	640@40.00	1 blk	Gypsum	1515@66.50	WEANED/VACC. SALES: Tuesday, Dec. 1 • Tuesday, Jan. 5 • Tuesday, Feb. 2
1 Sow	Esbon	490@37.00	1 blk	McPherson	1565@67.00	COW SALES: Tuesday, Dec. 15
7 Sow	Abilene	573@38.75	1 blk	Carlton	1790@70.50	BUFFALO SALE: Saturday, December 5, 11 AM
6 Sow	Abilene	491@32.00	1 red	Tampa	1610@65.00	
6 Sow	Abilene	461@29.50	7 mix	Salina	1304@66.00	
10 Sow	Abilene	554@37.25	1 blk	Bushton	1690@69.00	SPECIAL COW SALE TUESDAY, DECEMBER 15, 2020
8 Sow	Abilene	549@36.00	1 blk	Bushton	1655@66.00	• 8/7 blk angus-bigger calves Butch Stucky bulls
11 Sow	Abilene	541@36.75	2 blk	Marquette	1608@66.00	• 50 bred cows& pairs
10 Sow	Abilene	449@31.50	1 bwf	Ellsworth	1650@67.00	• 100 3-5 yr cows blk & red angus
1			1 blk	Glasco	1705@67.00	• 100 3-5 yr cows bik & red angus • 13 running age
1	CALVES		1 bwf	Randall	1610@70.00	 13 running age 10/10 4-5 yrs red cows blk calves
1 blk	Junction City	125@360.00	3 mix	Enterprise	1678@68.50	,
1 blk	Junction City	135@385.00				 10/10 older pairs 80 blk red angus spring cows 3-5 yrs
1 bwf	Salina	65@150.00		BULLS		• 80 blk red angus spring cows 3-5 yrs
1 blk	Salina	175@300.00	1 blk	Brookville	2160@82.00	• 20/20 pairs
1 bwf	Salina	155@300.00	1 blk	Salina	2230@90.00	• 125 bred cows blk cows 3-5 yrs bred angus or sim/ang Feb/Mar calvers
l			1 blk	Salina	1990@93.00	• 200 mix cows 4-8 yrs spring bred & fall pairs
1	COWS		1 blk	Gypsum	2240@86.50	• 150/150 blk/ bwf/ red/ rwf 3-5 yrs ang calves worked true fall calves
1 blk	Salina	1810@69.50	1 red	Abilene	2095@89.50	• 35/20 blk red ang cows 4-6 yrs bred blk
1 blk	Salina	1220@64.00	1 blk	Delphos	2028@86.50	• 75 blk & few red cows 4-6 yrs bred angus & Jamison Hereford early
1 blk	Marquette	1990@70.00	1 blk	Норе	2225@88.50	spring calves • 39/39 blk/bwf
EARLY CONSIGNMENTS FOR THURSDAY, DECEMBER 3, 2020 • 50 sim/ang S&H 450-650, spring/fall vacc • 27 sim/ang S&H 650-800, spring/fall vacc • 60 S&H 450-750, HR/2rd • 60 strs 650-800, HR/Sept 20th weaned/ 2rds/ fall vacc • 100 blk/ bwf S&H, 600-900, vacc/ weaned 50 days • 128 blk sim/ang strs 800-825, NS • 63 blk sim/ang strs 850-875, NS • 61 blk strs 850-900, NS • 50 blk S&H, 600-750 • 12 blk ang strs 850, LTW/ Fall vacc/ Bunk Broke • 65 S&H 500-700 • 70 S&H 500-700 • 13 S&H 550-800, weaned since end of Sept/vacc PLUS MORE BY SALE TIME.						 25 bred cows blk/ red ang 4-9yrs bred red ang calve Feb-March 30/20 young pairs 125 blk cows 7 to older bred blk Don Johnson start Feb 15th 25/25 big calves worked 4 yrs old bulls back in mid Nov. cows wormed worked, 1 rd vacc & castrated 90 blk 3-5yrs bred to red blk angus Jan. calvers 40/10 blk & red 4-7 yrs bred red ang BRED HEIFERS 200 blk hfr Al bred angus clean up angus 70 pure blk angus hfrs 25 blk hfrs all off 2 local ranches, start calving Feb. 5 for 90-100 days bred registered blk ang son of Teax 718WEPD & YWEPD of 109, Rohleder did spring vacc cydectin early nov w/ scourguard 11/14 40 bred red ang hfrs bred to son of Charlo Star Feb. 7th for 60 days scourguard dectomax vls 10/24 25 red angus hfrs bred to sons of Charlo Star Feb. 21st for 60 days scourguard dectomax vls 10/24 15 blk ang bred hfrs bred to sons of Charlo Star Feb. 21st for 60 days scourguard dectomax vls 10/24 60 blk hfrs Montana origin
IN STOCK TODAY: • Heavy Duty Round Bale Feeders • 42' ROUND BALE DUMP TRAILERS • HEAVY DUTY FEED BUNKS (SILAGE & GRAIN) • HEAVY DUTY 5000# GRAIN TOTE						 12 red angus hfrs Montana origin 15 blk hfrs SD origin AI bred 5-8 to Connealy angus bull cleaned up sane 70 days 30 blk hfrs bred to LBW angus bulls start calving mid February 140 blk hfrs bred to Davidson angus start Jan. 22 for 58 days Choran Nichols origin on hfrs 40/40 1st & 2rd calf hfr pairs purebred angus AI sired calves very fancy PLUS MORE BY SALE TIME.

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Livestock Commission Co., Inc. Salina, KANSAS SALE BARN PHONE: 785-825-0211 MONDAY — CATTLE • HOG SALE 2nd & 4th MONDAY

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

THURSDAY — CATTLE ONLY

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

AUCTIONEERS: KYLE ELWOOD, BRANDON HAMEL & GARREN WALROD

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

.com LIVE (ATTLE AUCTIONS

For Information or estimates, contact:

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

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

Jim Crowther 785-254-7385 Roxbury, KS

Lisa Long 620-553-2351 Ellsworth, KS

Cody Schafer 620-381-1050 Durham, KS

Kenny Briscoe 785-658-7386 Lincoln, KS

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

Austin Rathbun 785-531-0042 Ellsworth, KS

Farmers & inchers Livestock ina, Kans

Cattle Sale Broadcast Live on www.cattleusa.com1150 KSAL, Salina 6:45 AM -MON.FRI * 880 KRVN 8:40 AM - WED.-THURS. *550AM KFRM - 8:00 am, Wed.-Thurs.