



Pauly named 2018 Premier Seed Grower by KCIA

Tom Pauly of Conway Springs was awarded the title of Premier Seed Grower for 2018 by Kansas Crop Improvement Association on February 20th at the annual Seed and Crops Conference held in Manhattan.

A lifelong farmer, Pauly, along with his wife Laura and nephew Andrew, farm over 1,500 acres as Tom Pauly Farm. Tom Pauly Farm grows wheat, corn, soybeans and has operated a very successful Certified Seed Wheat business for the past 20 years.

Pauly serves as South Central director to Kansas Crop Improvement Association from 2006-2015. Through his formal ties to KCIA and his everyday farming and seed growing practices Pauly has been a passionate advocate for quality seed production and distribution. He believes this is a necessary aspect of modern agriculture and a key foundation for healthy family farm businesses. He is motivated by new ideas and caring for the land through no-till



Kansas Crop Improvement Association president Mike Sieck, right, presented the 2018 Premier Seed Grower award to Tom Pauly, shown with his wife Laura.

farming practices to be a good steward of the land and do the best he can for future generations.

The Premier Seed Grower award was presented by KCIA Board president Mike Sieck.

Since its inception in 1930, 166 Premier Seed Grower awards have been presented by Kansas Crop Improvement Association (KCIA). To qualify for the award, the recipient must have several years of experience as a certified seed

producer, with certified seed being a major component of their business, must exhibit quality consciousness in all production and sales practices, and must be involved in public service activities. Recipients are selected by ballot with previous year's honorees casting the votes.

For further information, call Kansas Crop Improvement Association at 785-532-6118, visit www.kscrop.org, or e-mail kscrop@kansas.net

One more for the Harvest Brigade



A neighbor of Nancy Fager, Dickinson County, saw G&G's July 21, 2018 cover feature on the WWII Harvest Brigade and the Massey Harris Model 21 combines they used. He told her, "I think you've got one of those in your pasture!" Sure enough, it was, with the "Brigade Proved" slogan under the MH logo, photo at right.

Nancy would love to sell her combine to be restored or used as a parts donor to get another 21 field-ready. If you're interested contact *Grass & Grain* and we will get her in touch with you.



USMEF economist stresses importance of trade with Japan at USDA Outlook Forum

The importance of Japan as a trading partner for U.S. agriculture was the focus of a Feb. 22 panel discussion at the USDA Agricultural Outlook Forum in Arlington, Virginia. U.S. Meat Export Federation (USMEF) economist Erin Borrer explained that Japan is the leading value destination for both U.S. beef and U.S. pork, with 2018 exports expected to reach \$2.1 billion and \$1.65 billion, respectively, when year-end data is available. But Borrer also cautioned that the competitive terrain in Japan has gotten steeper for U.S. red meat due to Japan's preferential trade agreements with Australia, the European Union, Canada, New Zealand, Mexico and Chile, and this situation will worsen unless the United States secures similar access terms with Japan.

Borrer noted that U.S. beef export value per head of fed slaughter averaged a record \$320.72 in 2018, up 14 percent year-over-year and shattering the previous high (\$300.36) set in 2014. Japan accounts for one-fourth of this total, or \$82.75 per head. The ratio is similar for U.S. pork export value, which averaged \$51.46 per head slaughtered in 2018. Japan accounted for \$13.18, or 26 percent of the total per-head value.

She also explained that

beef and pork make up a significant portion of U.S. agricultural exports to Japan. The projected \$3.92 billion in combined red meat product exports represent about 30 percent of the \$13 billion in total U.S. ag exports to Japan, second only to grains and feeds.

Furthermore, Japan's red meat consumption is likely to expand at a faster rate once the benefits of lower import duties are passed along to consumers. In South Korea, for example, the tariff rate on U.S. beef has dropped by more than half since 2012 under the Korea-U.S. Free Trade Agreement, and U.S. beef enjoys a tariff rate advantage over its competitors. Most pork from the United States and other major suppliers enters Korea at zero duty. Red meat is now more affordable and accessible for Korean consumers who

have responded enthusiastically, with per capita consumption setting new records. A similar development in Japan will only benefit the U.S. beef and pork industries if they are on a level playing field with competitors.

Without a U.S.-Japan trade agreement, potential losses for the U.S. meat industry are substantial. On a per-head basis, Borrer estimates lost export opportunities for U.S. beef will reach \$18.70 by 2023 and \$42 by 2028. For pork, the per-head loss is projected to be \$4.55 by 2023 and \$7.06 by 2028. U.S. exporters are already feeling the effects of tariff disadvantages of 11 percentage points for beef cuts and 6.4 percentage points for beef tongues and skirts. For pork, the most immediate impact is on processed and value-added products, where tariffs are quickly being phased

to zero. This is already eroding U.S. market share for important products such as ground seasoned pork. Japan's imports of U.S. ground seasoned pork were valued at \$288 million last year.

"Unless the U.S. and Japan can quickly reach a trade agreement, lost opportunities will mount as Japanese companies seek more value-added, further processed products from suppliers such as the EU and Mexico," Borrer explained. "Decisions that are being made today will transform the business and without clear indications that the U.S. and Japan will reach an agreement, the U.S. industry is likely to suffer permanent losses in market share and related investment. Japan is irreplaceable as a trading partner, given its demand for high-value chilled pork cuts, and it is seen as an increasingly

important market for value-added pork. At a time when U.S. companies are looking to produce more value-added and branded products, the industry cannot afford to miss these opportunities in Japan."

These lost export opportunities also carry serious implications for U.S. agriculture and the rural economy. Exports to Japan are estimated to directly support more than 4 percent of the jobs in the meat packing and processing industry. Absent a trade agreement with Japan, an annual cost of \$5.2 billion in direct economic losses to other businesses and industries will result in the top 15 meat packing and processing states. Over the next ten years, an estimated 23,600 jobs outside the meat industry would be lost in those 15 states.

Joining Borrer on the discussion panel were Jeffrey Schott, senior fellow

at the Peterson Institute for International Economics, and Ben Conner, vice president of policy for U.S. Wheat Associates. More details from Borrer's presentation are available online.

Borrer also addressed the USDA Outlook Forum on Feb. 21, covering a range of topics impacting global red meat trade. These included the spread of African swine fever (ASF) in China, which has the potential to increase China's need for imported pork. ASF's expansion in Europe also impacts global trade, as some countries have suspended imports from European Union member states in which ASF is confirmed.

Borrer detailed the impact of ongoing trade disputes on U.S. red meat exports, including imposition of retaliatory duties on U.S. pork by China and

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Baldwin City named Quilt Capital of Kansas

By Donna Sullivan, Editor

Baldwin City has a rich history in the realm of quilting. Not only does it host the longest-running quilt show in the state of Kansas, it is also home to one of the oldest quilt shops in the nation. The quilt show was started in 1973 by Enola Gish, who was known as the "Quilt Lady" and wrote a weekly column on the subject for many years for the *Baldwin Ledger*. The show was held in conjunction with the Maple Leaf Festival and has been held every year since, with more than one hundred quilts on display each year. And that quilt shop – Quilters' Paradise – opened for business on January 3, 1989 as Cygnet Fashions and Fabrics. The name was changed to Quilters' Paradise in the 1990s. Sharon Vesecky, a fourth-generation quilter herself, owns and manages the store.

The Maple Leaf Quilt Guild was established in 1991 and as one of their activities began a Quilt Walk, where quilts were displayed in the downtown businesses. The Quilt Walk evolved

into an Art Walk that continues on, now featuring a wide array of fiber arts, including a display by the guild.

Taking their love for the time-honored craft to an international level, the Baldwin City quilters took advantage of a "Sister City" relationship with Riviersonderend, South Africa, to share their passion for quilting. Their South African sisters recently presented them with a quilt reflecting their culture, and now the quilt guild is in the process of creating one to present to them.

To celebrate not only the show and Quilters' Paradise, but also the many cottage industries involving quilting that have sprung up in Baldwin City, Vesecky launched a campaign to have Baldwin City designated the Quilt Capital of Kansas. On February 14, Resolution 1711, introduced by Sen. Tom Holland, passed the Senate. The resolution recognizes the positive economic and social impact of the quilting industry, both for the local citizens themselves and the tourism it draws.



Pictured are Senator Tom Holland, Sharon Vesecky and her sister Lauretha Rowe. The quilt is one that featured as a "Quilt of the Day" at the Kansas State Fair.

Insight

KANSAS FARM BUREAU
The Voice of Agriculture

By Kim Baldwin,

McPherson County farmer

During certain parts of the year I secretly cringe when someone walks into my house. It's not that I don't like visitors; it's more about what my houseguests might see when they enter our home. In the winter and spring, odds are my floors will have some mud deposits that someone tracked in. In the summer and fall, dirt clods and seeds sprinkled around my house are a given.

"It's just part of life," I tell myself. Even then, at times it still creates a bit of uneasiness for me when someone comes to visit. My concerns about my house have had to take a backseat though, as we have an extended houseguest this year. My farmhouse — in all its seasonal, messy glory — has been on full display as we have opened our home to a high school foreign exchange student. She's a Sicilian from a large city who is accustomed to warm weather, ocean views and pasta.

Lots of pasta. In preparing for her exchange experience, she watched all the Hollywood teen movies to help her formulate an understanding of what life would be like for her in America. There were dance routines, musical interludes, mean girls, study groups and school dance scenarios that she studied.

She made a conscious choice to come to the United States to study and participate in the lifestyle and culture. Little did she know, the images, events

and people portrayed in the movies she studied in preparation for this once-in-a-lifetime experience would be very different from her reality: life on a farm in rural central Kansas.

Our family's goal is to carry on our business as usual while also working to give her the best possible experience this year. It's safe to say Hollywood didn't prepare her for the majority of it. Common conveniences including accessibility to a mall, a movie theater, a great pizza place and a coffee shop are all still possible, although getting there requires a bit more planning and miles on our part.

She's experienced early drives into town to get to school, dirt road treks required to reach a classmate's house, small class sizes at our rural school where the math teacher is also the cross country and scholar's bowl coach, making selections at our small town grocery store and the beauty of a community coming together for a weeknight high school basketball game.

She's had friendly conversations with folks during a community meal served family-style at a local church, checked out books from our local library, discovered butter-scotch, experienced slow Wi-Fi, which affects her Netflix viewing. She's also learning the beauty of Amazon's two-day shipping.

She's watched our farm dog give birth, and she's held a piglet in her arms.

Our local FFA chapter members welcomed her and then put her to work, and she has experienced the joy (and chill) of traversing the farmyard on an inner tube pulled by a four-wheeler following a recent snowstorm.

While the clothes shopping options are limited, especially for a teenager who usually spends portions of her weekends visiting shops trying on clothes with her friends for fun. She's beginning to realize that we have to plan our shopping adventures a little more than she would in Sicily. And, thank God almighty, it only took two trips to Wichita to secure the prom dress!

After multiple video calls with her family and Snapchat posts seeking advice, she has even purchased her own pair of cowboy boots. The girl is committed and living a life she didn't even know existed. To say she's adjusted nicely is a huge understatement. She has become part of our small, rural community, and she has fully embraced the lifestyle and all the community has to offer.

While she has learned and experienced a lot during her time with us, I know my family has gained some valuable lessons as well. And for me, allowing her to view our farmhouse in all its seasonal, messy glory is something I've been able to relax about. After all, it is just a part of life for our farm family here in rural, central Kansas.

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

Prairie Ponderings

By Donna Sullivan

When my sister and I were young and would play Monopoly, she had a game plan she adhered to very strictly. She only bought the railroads — presuming I didn't get to them first — then just collected the rent from those and her \$200 each time she passed go. I beat her every single time. She was four years younger than me, so it could be argued that at some point I should have enlightened her. But hey, who doesn't like winning at Monopoly?

Watching what today's ag producers are going through has gotten me thinking a lot about those Monopoly games. Because while my sister's strategy seemed pretty risk-free, in the end I always ended up with all of her money and all of her railroads as I continued to build up my land holdings while the safe places for her to land on the board became fewer and farther between.

So many of today's producers are smart, hard-working, business-savvy individuals. They thoroughly think through every management decision and

weigh every risk. Then they often take that risk, in the hope of one day attaining the reward. Because anyone who has ever dabbled in business knows that great reward only comes at great risk. They have a dream of helping set their children up in agriculture and everything they are trying to build is for the benefit of their family.

Then times like these hit.

Low prices, drought, failed crops; this never-ending winter that is taking its toll on morale, livestock and even equipment. The little shoots of green we are usually starting to see this time of year that help to bolster spirits are buried under ice and snow. We tell ourselves spring has to be just around the corner, then another storm hits.

It leaves many of you wondering why you continue to try so hard when everything seems stacked against you. You watch while others put in a fraction of the hours of work you do for what seems like double the reward. You get discouraged.

Yet, the next morning, you drag yourself out

of bed and out the door to see what the day will hold. Will it be another calf frozen to the ground that requires a few hours in the mudroom? Will another piece of equipment break, another ewe prolapse, another heifer lose her calf?

Sometimes in those Monopoly games, I bit off more than I could chew when I landed on a piece of property a little sooner than I could afford to buy it. So I would mortgage something, sell a house or two, anything to keep from missing the opportunity. Sometimes I would be sweating bullets, as it appeared this time my aggressiveness would fail. That my sister, with her railroads and money for passing go would emerge victorious. But she never did.

I know, agriculture is not a Monopoly game and the stakes are real and high. The potential for failure is always there, lurking around every decision you make, costing you sleep and peace of mind. The rewards are hard fought and a long time coming.

But hang on, my friends, please hang on. You can do this.



Maybe I am just becoming a curmudgeon, maybe my family is right, and I am grumpy, and most likely of all, I am getting to be old and set in my ways. I like to think of myself as young and hip but the fact that I have two kids in college probably excludes me from that. I try not to be that old guy talking about how far our society has slipped and what it was like in "my day," but increasingly I find myself falling into that trap.

There is a whole litany of things that I go on a rant about that makes me seem old and stodgy. Things like tucking your shirt in while you are in public. Wearing a ball cap indoors is another one of my pet peeves. I admit it, there are many little things about our society that I think we have become too lax on, but things like wearing ball caps indoors really don't hurt anything and probably shouldn't draw my ire as much as it does.

However, there is one thing that is like nails on a chalkboard for me and really gets me going. It is the notion that our lives are so busy that we no longer have time to go to church on Sunday mornings. Our church attendance has been steadily dropping and I hear the same thing from many other churches. I wish I had a dollar for every time I have heard someone say that Sunday morning is their only time to sleep in.

I guess this is where the old, grumpy guy in me comes out and this is probably not the time of year to tell me things like that. Sleeping in to someone who has livestock is probably not an option this time of the year and often anytime of the year. It doesn't matter how tired you are, the animals need to be checked, especially if they are lambing, calving or kidding. So, telling me how rough your week was is not going to yank at my heart strings.

Often, during this time of the year, Sunday morning is not a time of relaxation but rather a time of going out even earlier so things can get checked, fed and watered in time to make it to church. From January to April, Sunday mornings are more hectic for me than relaxing and I know I am not alone in my quandary.

It's all about priorities. My highest priority is to try to make it to church Sunday morning. Sure, there are times when an emergency rises or there is

something that is unavoidable but for the most part, I make it to church — sometimes a little disheveled, bleary-eyed, out of breath and hopefully not smelling bad. It isn't easy and I have questioned it myself from time to time, but I don't ever remember regretting the effort.

I don't mean to sound high and mighty and I am not trying to upset anyone or lose any friends over this. We all must make our own decisions and ultimately, we are the only ones who will have to answer for our actions. I would also be lying if I didn't admit to skipping a time or two myself with no good excuse. I can't speak for anyone else but generally when I don't attend church on Sunday, I find something lacking the rest of the week.

I know many churches are pondering the same problem and some have made concessions, changed worship time and days to accommodate our busy lifestyles. I am open to the idea and I have had several long discussions with my pastor about it and maybe, probably, I am a dinosaur. I certainly don't know what the answer is and maybe it is finding a time and day more convenient to the masses, but I am also not sure about that.

I suspect if we change the time and date of church service many will find conflicts with that also and be too busy to attend. I also am sure that watching church service online or getting it through a podcast is a also less than great solution. I am sure that we need to be together, worshipping intentionally to get the full effect. I am not casting judgement, because Lord knows I have lots of flaws myself, but I am saying I think as a society we really need to look at our priorities for Sunday mornings.

I know life is hectic, I am the first one to complain about not having enough down time. I know how hard it is to get kids up and around for church. It is a battle Jennifer and I fought and one that I am glad we chose to fight. Sunday is supposed to be a day of rest and I am sure that is something we are all missing. Yes, I am old and grumpy, set in my ways and I am willing to admit I am wrong on this one. As for sleeping in, I do have an answer for that one, I highly recommend Sunday afternoon naps.

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Success is not final, failure is not fatal: it is the courage to continue that counts. — Winston Churchill



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Soybean producers disappointed 90 days brings no tariff conclusion

After nearly three months of negotiations, President Trump and Chinese President Xi could not reach a conclusion and bring to an end tariffs imposed on soy growers by China since July 2018, a measure that would have brought great relief to soy growers.

Davie Stephens, a soybean grower from Clinton, Kentucky, and American Soybean Association (ASA) president stated, "We are glad that talks between these two countries will continue with-

out the tariff hike previously expected at the 90-day deadline, but we need resolution and are discouraged that it's still hard to see a tangible end in sight."

The Chinese government has recently announced and begun to make good on government-to-government commitments to purchase American soybeans totaling around 20 million metric tons (735 million bushels), which is a positive step. However, ASA continues to push

for more than piecemeal purchases and see open access to the China market restored through the removal of tariffs.

The value of U.S. soybean exports to China has grown exponentially the past 20 years, from \$414 million in 1996 to \$14 billion in 2017. China imported 31 percent of U.S. production in 2017, equal to 60 percent of total U.S. exports and nearly one in every three rows of harvested beans. Over the next 10 years, Chinese demand for soybeans

is expected to account for most of the growth in global soybean trade, making it a prime market for the U.S. and other countries.

While ASA is pleased that the administration has announced that negotiations have been positive and will continue past Trump's imposed 90-day window, soy growers continue to urge the administration to rescind the tariffs and instead make soybeans a part of reducing our trade deficit with China.

Mexico is essential market for Kansas wheat farmers

With discussions on trade dominating the public discourse, it is vital for Kansas wheat farmers to preserve a trading partnership with our neighbor to the south. Mexico has become the largest buyer of U.S. wheat in the world. Mexico buys about 106.5 million bushels of wheat from the United States each year, including 55 million bushels of hard red winter (HRW) wheat.

Flour millers in Mexico generate strong demand for U.S. hard red winter wheat, the primary class of wheat grown in Kansas. In MY 2015/16, Mexico surpassed Nigeria and Brazil to become the top market for U.S. HRW.

A rising number of industrial bakeries, along with traditional artisan bakeries, account for about 70 percent of wheat

consumption according to CANIMOLT, the association representing Mexican millers. That puts Kansas farmers and other HRW producers in a good position to meet that demand. Being closer to HRW production and having a highly functioning ability to import a large share of HRW directly via rail from the Plains states is an advantage for Mexico's buyers.

Yet our customers there have many other sources of milling wheat to which they can turn. In response to rising world grain prices in 2008, Mexico lifted a 67 percent import tariff on wheat from outside the United States and Canada. To date, the tariff has not been reapplied and the Mexican import market is currently tariff-free for wheat from all qualified

origins.

The United States-Mexico-Canada Agreement (USMCA) has been signed by leaders of the United States, Canada and Mexico. It now needs to be ratified by Congress. If it doesn't pass and the President pulls out of the North American Free Trade Agreement (NAFTA), Mexico could begin to shift their imports to other origins.

The negative impact on the United States would include a net loss of 256,000 U.S. jobs, a net loss of at least 50,000 jobs in the U.S. food and agriculture industry, and a drop in GDP of \$13 billion from the farm sector alone. NAFTA withdrawal would also disrupt critical industry supply chains, close markets, eliminate jobs, and increase prices for the

basic needs of American consumers.

The USMCA also includes important provisions for wheat farmers. Most notably, USMCA retains tariff-free access to imported U.S. wheat for our long-time flour milling customers in Mexico. Congress must vote to ratify USMCA. That is a crucial step toward rebuilding trust in U.S. wheat as a reliable supplier in this important, neighboring market.

USMEF economist stresses importance of trade with Japan

Mexico. China also increased the duty rate for U.S. beef last year, and Canada imposed retaliatory duties on prepared beef products imported from the United States.

Retaliation has weighed less heavily on U.S. beef exports, which were record-large in 2018 and surged by more than \$1 billion over the previous year. Pork export volume held steady with the record pace of 2017, but export value was pressured greatly in the second half of the year, following retaliatory actions by China and Mexico. Borrer explained the retaliatory tariffs have been paid by the U.S. pork industry as prices for hams, picnics, feet and hocks - key items for export to Mexico and China - were down an average of about 20 percent from June through December last year, and this translated into year-over-year losses of \$11.75 per head. Industry losses, just for these products, amounted to \$860 million.

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Kimberly Edwards, Stillwater, Oklahoma Wins Weekly G&G Recipe Prize

Winner Kimberly Edwards, Stillwater, Oklahoma: **LITTLE REUBENS**

16-ounce package little smokies
1 cup sauerkraut, drained & patted dry
(2) 8-ounce cans crescent dinner rolls
1 cup Thousand Island dressing
1/2 teaspoon horseradish
Separate crescent rolls into triangles. Cut each triangle into 3 pieces to form 3 long triangles. Place 1 teaspoon sauerkraut and 1 little smokie on wide end of each triangle. Roll up. Place on ungreased cookie sheet. Bake at 375 degrees for about 12 minutes or until brown. Mix dressing and horseradish. Use as dipping sauce for little reubens. Makes 48.

Rose Edwards, Stillwater, Oklahoma: **PINEAPPLE CAKE**
2 cups flour
2 cups sugar
2 eggs
2 teaspoons baking soda
20-ounce can crushed pineapple
Frosting:
8 ounces cream cheese
1 stick oleo
2 cups powdered sugar
1 teaspoon vanilla
1 cup chopped pecans
Mix all ingredients for cake. Bake at 350 degrees for 40-45 minutes. Cream oleo, cream cheese and vanilla. Add powdered sugar and pecans. Frost cooled cake.

Kellee George, Shawnee: **MAYONNAISE BISCUITS**
2 cups self-rising flour
1 cup whole milk
6 tablespoons mayonnaise
Preheat oven to 400 degrees. Line a baking sheet with parchment paper. In large bowl, stir all ingredients just until combined. Drop dough by heaping tablespoonfuls onto prepared pan. Bake until golden brown 12-14 minutes. Serve warm.

Millie Conger, Tecumseh: **APPLESAUCE BBQ CHICKEN**
4 boneless skinless chicken breasts
1/2 teaspoon pepper
1 tablespoon olive oil
2/3 cup applesauce
2/3 cup honey barbecue sauce
2 tablespoons brown sugar
Sprinkle chicken with pepper. Cook in oil until golden brown on both sides but not done. Com-

bine other ingredients and spoon over chicken. Cover and cook 7-10 minutes until juices run clear.

The next recipe is from JoAnne Breault, Wamego: "Goes great with soup, salad or any meal. Just plain good!!"
SWEET POTATO BISCUITS WITH HONEY BUTTER

2 1/2 cups biscuit/baking mix
1 1/2 cups canned sweet potatoes, drained
6 tablespoons milk
1/3 cup butter, melted
Preheat oven to 425 degrees. Place biscuit mix in a large bowl. In a small bowl mix together drained and mashed sweet potatoes. Stir in milk and melted butter. Stir into biscuit mix just until moistened. Drop by heaping tablespoons 2 inches apart onto a greased baking sheet. Bake 8 to 10 minutes or until golden brown. Serve warm with honey butter.

Honey Butter:
12 tablespoons butter (room temperature)
1/4 cup honey
2 tablespoons powdered sugar
1/4 teaspoon cinnamon
1/2 teaspoon pure vanilla extract
Using a hand mixer or stand mixer beat all ingredients for a couple minutes until smooth and combined. Ready to serve immediately or refrigerate. Serve at room temperature for easy spreading.

Gin Fox, Holton: **EASY 3 INGREDIENT BAKED CHICKEN**
1 packet dry Italian seasoning
1/2 cup brown sugar
Chicken (we use chicken breast, 4 pieces)
Preheat oven to 350 degrees. Line a pan with foil. In a bowl mix together the Italian seasoning and brown sugar. Coat the chicken well. Place the coated chicken in the pan and bake at 350 degrees for 25 minutes on each

side, until brown. Ready to eat!

Lydia Miller, Westphalia, shares the next two recipes:

SAUSAGE BEAN SOUP
3/4 pound Italian sausage
1/2 cup chopped onion
1 garlic clove, minced
1 cup baby butter beans, drained & rinsed
1 cup black beans, drained & rinsed
1 cup beef broth
1 cup diced tomatoes, undrained
1 teaspoon dried basil
2 tablespoons shredded Parmesan cheese (optional)
In a saucepan cook sausage, onion and garlic until sausage is browned; drain. Add beans, tomatoes, broth and basil. Cover and simmer 10 minutes. Sprinkle each serving with Parmesan cheese. Yield: 4-6 servings.

WHITE CHILI
2 pounds dried Northern beans
1 1/2 cups chopped onion
1 tablespoon oil
1 tablespoon oregano
2 teaspoons cumin
1 1/2 teaspoons seasoned salt
1/2 teaspoon cayenne pepper
4 1/2 quarts chicken broth
2 garlic cloves
8 boneless skinless chicken breasts
2 cans chopped green chiles
Wash and sort beans. Put in Dutch oven; cover with water. Bring to a boil; remove from heat. Let stand 1 hour. Drain and rinse. Saute onions in oil. Mix seasonings. Add half to Dutch oven. Saute 1 minute. Add beans, broth and garlic. Bring to a boil. Reduce heat. Simmer 2 hours. Coat chicken with remaining seasoning mixture. Bake at 350 degrees for 15 to 20 minutes until juices run clear. Cut into bite-sized pieces. Add to beans. Stir in chiles. Simmer 1 1/2 to 2 hours.

GIN FOX, HOLTON: EASY 3 INGREDIENT BAKED CHICKEN
1 packet dry Italian seasoning
1/2 cup brown sugar
Chicken (we use chicken breast, 4 pieces)
Preheat oven to 350 degrees. Line a pan with foil. In a bowl mix together the Italian seasoning and brown sugar. Coat the chicken well. Place the coated chicken in the pan and bake at 350 degrees for 25 minutes on each

Trying To Keep The Facts Straight: What To Know About Measles

By Nancy C. Nelson, Meadowlark Extension District, Family Life
In the 10 years before a measles vaccine was available in 1963, nearly all children got measles by 15 years old. Each year, 3 to 4 million people in the U.S. were infected, about 400-500 people died, 48,000 hospitalized and 1,000 suffered encephalitis (swelling of the brain) from measles.

In 2000, the United States declared that measles was eliminated from this country. The U.S. eliminated measles because it has a highly effective measles vaccine, a strong vaccination program that achieves high vaccine coverage in children, and a strong public health system for detecting and responding to measles cases and outbreaks.

The Centers for Disease Control and Prevention defines measles elimination as the absence of continuous disease transmission for 12 months or more in a specific geographic area.

If measles is eliminated, why do people still get it in the United States? Every year, unvaccinated travelers, American or international visitors, get measles while they are in other countries and bring measles in to the United States. They can spread measles to other people who are not protected against measles, which sometimes leads to outbreaks. This can occur in communities with unvaccinated people.

Measles is highly contagious, so anyone who is not protected against measles is at risk of getting the disease. People who are unvaccinated for any reason, including those who refuse vaccination, risk getting infected with measles and spreading it to others. They may spread measles to people who cannot get vaccinated because they are too young or have specific health conditions.

CDC considers you protected from measles if you have written documentation (records) showing at least one of the following:

You received two doses of measles-containing vaccine, and you are a school-aged child (grades K-12) or an adult who will be in a setting that poses a high risk for measles transmission, including students at post-high school education institutions, healthcare personnel, and international travelers.

You received one dose of measles-containing vaccine, and you are a pre-school-aged child or an adult who will not be in a high-risk setting for measles transmission.

A laboratory confirmed that you had measles at some point in your life.

A laboratory confirmed that you are immune to measles.

You were born before 1957.

Vaccines are one of the top public health achievements because they have reduced or even eliminated many diseases.

Handling A Recalled Food

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

Food recalls happen almost daily and many do not get a lot of publicity. In a majority of recalls, it is the manufacturer that issues a voluntary recall.

Manufacturers will work with the FDA or USDA to help determine the reason for the recall and to fix the issue. If foodborne illnesses have occurred, the CDC and state health departments will also be involved.

As consumers, it is important to pay attention to recalls to eliminate the chance of getting sick. Recall announcements give specific information about the food recall including the type of food, brand, package size, date codes, manufacturer codes, shelf life dates, distribution locations, and other pertinent information.

If you have a recalled food, take it back to where it was purchased for a refund, or throw it away. Do not take the chance of eating it or feeding it to animals.

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Avoid Slips, Trips, and Falls During Winter Weather

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

As the winter months are upon us, we caution everyone to take extra care to avoid slips, trips, and falls as you are on your feet at home, on the job, or out and about. Following are a few tips to avoid a potential fall:

- If you notice a hazard, act:
- * Stay alert for uneven surfaces.
- * If moving between vehicles, watch for curbs and pot-holes.
- * If the temperature is close to freezing, assume there is ice; slow down and take short strides.
- * Wear appropriate slip-resistant shoes for the environment and the weather.
- * Use extra caution in parking lots, sidewalks and drives at work and at home.

Warm Up Cold Winter Days

You can't find a warmer place than the kitchen on a cold winter day, especially after an afternoon of snowball fights or building a snowman. When you've come in out of those nippy north winds, mix up some frothy hot cocoa and a batch of these delicious popcorn treats that would make even Jack Frost melt.

Popcorn is a whole grain that provides carbohydrates and fiber to the diet and is naturally low in fat and calories. Consuming at least 3 or more ounce equivalents of whole grains per day can reduce the risk of several chronic diseases and may help with weight maintenance. That's good news for your waistline, especially during these less active months. And by adding a natural sugar substitute and a sprinkling of dark, lovely cocoa, you'll satisfy a chocolate craving (yes, we assume everyone has one) and add flavonoids and antioxidants to your diet.

Cinnamon Chocolate Popcorn

3 quarts popped popcorn
Butter-flavored cooking spray
9 tablespoons powdered cocoa mix (cocoa sweetened with sugar or sugar substitute)
3 teaspoons cinnamon

Put popcorn in a large bowl and lightly spray with cooking spray. Sprinkle cocoa mix and cinnamon on popcorn. Toss to coat evenly. Spray and toss again until mixture is well-coated. Serve immediately. Serves 3.



While away those long winter days by trying your hand at these Chocolate Popcorn Cookie Sticks. A variation of the Italian biscotti, these delicious cookies are a fun and tasty way to fill an afternoon and fill your kitchen with warmth and an irresistible aroma. Get the children involved by letting them pop the popcorn, grind it in a food processor, and roll out the dough.

Chocolate Popcorn Cookie Sticks

1 cup egg substitute
1 1/2 teaspoons vanilla
1 cup plus 3 tablespoons sugar, divided
3 cups air-popped popcorn, ground in food processor or blender
2 1/4 to 2 1/2 cups flour
3/4 cup unsweetened cocoa powder
4 teaspoons baking powder

Preheat oven to 350 degrees. Line baking sheet with foil and spray with cooking spray. Combine egg substitute, vanilla and 1 cup sugar in large bowl; mix well. Add popcorn, flour, cocoa powder, and baking powder and mix well; dough will be stiff but continue mixing until all ingredients are well-combined.

Sprinkle remaining sugar on work surface; divide dough into 3 equal pieces. Roll dough into 8-by-4-by-1/2-inch logs and roll in sugar lightly on all sides. Transfer logs to baking sheet, leaving a space between them. Bake 25 to 30 minutes.

Remove from oven and allow "logs" to cool for 5 minutes. Cut logs diagonally into 1/2-inch slices. Arrange in a single layer on baking sheet. Bake 10 minutes; turn cookies over and bake 5-10 minutes longer until lightly browned and crisp on both sides. Cool cookies and store in air-tight container. Yields: 24-28 cookies.

From www.popcorn.org



Home and Away

The Need to Create

By Lou Ann Thomas

This long, cold, dreary winter has really taken a toll on my body, mind and spirit. I feel frozen in place with little motivation for much of anything other than complaining about the weather. My body aches; my mind whines and my creative spirit may have gone to sit on a beach somewhere.

That's why when my friend Gavin said he had never been to Lucas, Kansas, but wanted to go, I was in the car with the motor running by the time he finished his sentence. Quirky places, art and scenic drives are among my favorite things

and Lucas, known as the Grassroots Art Capital of Kansas, is the perfect combination of those things.

Samuel Dinsmoor's Garden of Eden may be the best-known wonder in Lucas. Dinsmoor, a Civil War Veteran, retired schoolteacher, farmer, and Populist politician began building his garden and cabin in 1907. His 11-room house is built of limestone logs, most running the entire length of the building, and the 150 sculptures in the garden were also created from concrete.

But the Garden of Eden is only one example

of grassroots art in Lucas. The Grassroots Art Center houses a collection of works by artists who have never received formal art training and create their works from ordinary materials, like recycled plastic bottles, aluminum can pull tabs, rakes and shovels, concrete and glass. Why Betty Milliken even used old chewing gum to create her art.

It's inspiring to see the extraordinary creations of ordinary people who are creating not to sell their work, but rather they create for their own enjoyment - or need. It is as though the creative spirit must be expressed and there is something inside of them that drives them to set it free. I have never been to Lucas and the grassroots center without marveling at the power of our spirits' desire to create something

new and unique.

A trip to Lucas should also include time to drive around to see the random examples of yard art and other creations residents have been moved to make and display. Also be sure to check out the Lucas Bowl, which has been designated one of the top six public bathrooms in the world. It too is a creative masterpiece!

We may never know why grassroots artists are drawn to create from concrete, chewing gum or whatever else they can find. But, thanks to the dedicated people of the Grassroots Art Center we can share and celebrate the creative spirit in all of us.

I have never left a visit to Lucas without feeling inspired and wondering, "Hmmm...what might I create?"

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THE WAY WEST

By Jim Gray

Pawnee Killer

A number of maps have been published showing the home territory for various native tribes. All of the maps that I have seen are too simplistic and most of them are just plain wrong. Pawnees are generally assigned the eastern Platte and Republican River regions of Nebraska and northern Kansas but that does not account for their extended hunting lands. When the Santa Fe Trail first opened up to wagon traffic in the 1820s Pawnee warriors threatened travelers far into southwest Kansas. That's how Pawnee Rock got its name along the trail west of Great Bend, Kansas.

Comanche territory is generally associated with central Texas into New Mexico, but they often traveled north as far as western Nebraska. The Kiowa were supposed to live from the Santa Fe Trail into west Texas, but along with the Comanches could be found as far south as Mexico.

Southern Cheyennes and Arapahos are generally given completely different locations mostly on the eastern Colorado plains, but they usually camped together and were known to regularly trade as far east as the central Kansas village of Salina. They also often visited their north-

ern relatives in the Dakotas, Wyoming, and Montana.

The Sioux were made up of several large groups, Lakota, Dakota, and Nakota. They were considered a northern tribe living north of the Platte River on the northern and western plains. Of all the tribes, the range of the Sioux may be the most misrepresented, perhaps because there were several more sub-divisions of the tribe. Although most people don't think of the Sioux as being active in Kansas, members of the Brulé and Oglala Lakota were known to frequent the Santa Fe Trail much farther south of their supposed range.

Oglala Chief Little Wound led a band of warriors that identified closely with the Cheyenne and the warrior society known as the Dog Soldiers. Of Cheyenne origin, the Dog Soldiers were a mixed band of Cheyenne, Sioux, and Arapaho. They claimed the unspoiled, isolated, Republican River valley as their homeland but ranged south below the Santa Fe Trail and north into the Powder River country.

In the annals of warfare on the Kansas plains Black Kettle is known as a chief who tried to guide his people toward peace with the invading American cul-

ture. His efforts were met with suspicion and death at every turn. In spite of Black Kettle's efforts for peace the Americans saw Cheyenne warriors around every bend.

The Dog Soldiers, separate from Black Kettle's people, were more often the warriors causing trouble. Americans tended to believe that the Cheyenne war leader Roman Nose was responsible for all the atrocities. However, Pawnee Killer, an Oglala war leader from Little Wound's band, stirred up plenty of trouble.

Pawnee Killer participated in the attacks on Julesburg, Colorado in 1865 following the infamous Sand Creek Massacre. In 1866, Pawnee Killer joined over a thousand warriors to annihilate Captain William Fetterman and eighty troopers in northern Wyoming.

In April of 1867, Pawnee Killer and his warriors burned Lookout Station on the Butterfield stage road southwest of Fort Hays. Three station attendants were tortured and killed.

Pawnee Killer and Cheyenne Chief Turkey Leg often traveled together. The two tried to lure Lt. Col. George Custer and his Seventh Cavalry into an ambush south of Fort McPherson, Nebraska, in

June of 1867. Custer didn't fall for it, but nearly lost Captain Louis Hamilton and twenty troopers in a similar planned ambush.

Soon after, on July 2, 1867, Pawnee Killer caught a detachment of twenty troopers led by Second Lieutenant Lyman Kidder on the open prairie. Custer found the troopers' bodies decomposing in the summer sun a few days after the attack.

A month after the Kidder massacre Turkey Leg and Pawnee Killer struck a Union Pacific train just west of Plum Creek (Lexington) Nebraska. By loosening the rails and spreading them apart the warriors succeeded in derauling the engine. Several railroaders were killed and the cars looted. The warriors rode away with strands of calico gaily tied to their horse's tails.

Audaciously, just a short time later Pawnee Killer brought a council

with the U.S. Peace Commission to a stop when he questioned the motives of his "Grandfather" in Washington. The commissioners had no answer. He would go on to fight at "The Battle of Beecher's Island" in September of 1868 but his exploits in the fight were not recorded.

The army closed in on the Dog Soldiers in 1869. In September, the Fifth Cavalry forced Pawnee Killer to abandon his camp leaving behind his winter's supply of meat. He continued to be pushed farther and farther into the isolation of the north, never again seeing his beloved Republican River valley, and the life he had known on The Way West.

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

K-State to host Sheep Producer Day on March 23

The 2019 Kansas State University Sheep Producer Day is planned for Saturday, March 23. This year's event will be hosted at K-State's Stanley Stout Center, 2200 Denison Avenue in Manhattan.

The event will begin with tours of Shannon Creek Lamb, Olsburg, and the KSU Sheep and Meat Goat Center. During the tour Dr. Emily Reppert, K-State College of Veterinary Medicine, and Dr. Alison Crane, KSU sheep and meat goat specialist, and Charlie Lee, KSU wildlife specialist, will present over body condition scoring, FAMACHA, and trapping and snaring clinics.

Following the tours, attendees will hear from Mike Wallace, retired USMARC manager and current Nebraska producer; Lesa Eidman, Superior Farms, Dixon, California; and Emily Voris, Kansas Department of Agriculture.

"I am very excited to incorporate many of the experts we have in different aspects of sheep and livestock production here at K-State into this year's Sheep Day program," says Dr. Alison Crane, KSU Sheep and Meat Goat specialist. "I am most excited to incorporate tours of our facility as well as a local large-scale producer into the program."

Registration begins at 8 a.m. and vans will leave for tours at 8:15 a.m. A trade show will take place throughout the day. For a complete schedule and registration information, visit www.asi.ksu.edu/events/sheep_meat_goat_events.html

Pre-registration for Kansas Sheep Association members is \$15 and non-members are \$25, if paid by March 11. Registration at the door is \$20 for Kansas Sheep Association members and \$30 for non-members. Lunch is included with registration.

K-State Sheep Producer Day is sponsored by the Kansas Sheep Association and the K-State Department of Animal Sciences and Industry. For more information about the event, contact Lois Schreiner at 785-532-1267 or lschrein@ksu.edu.

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• 195 Acres± Rooks Co., KS Grassland. Date: Fri., Mar. 8th, 2019. Time: 10:00 A.M. Auction Location: Fossil Creek Hotel-1430 S. Fossil St. Russell, KS.

CATHERINE MARLEY, JANET STIVERS, NANCY DENNEY
• 145 Acres± Trego Co., KS Cultivation. Date: Mon., Mar. 11th, 2019. Time: 10:00 A.M. Auction Location: VFW Hall- 400 N. Railroad Ave. WaKeeney, KS.

NANETTE FOORE & BRENDA SMITH

• 320 Acres± Trego Co., KS Grassland. Date: Mon., Mar. 18th, 2019. Time: 10:00 A.M. Auction Location: KOC Hall-1013 Washington St., Ellis, KS.

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• 450± Acres Ness Co., KS Expired C.R.P./C.R.P. Date: Thurs., Mar. 21st, 2019. Time: 10:00 A.M. Auction Location: Ness Co. Bank Bldg-102 W Main St. Ness City, KS.

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- TRACT 1 — Approximately 33.75 Acre Tract.
FSA Details Estimated - 33 DCP Cropland Acres
• 24.69 Estimated Base Acres
• ARC-County. Wheat, Corn, Sorghum, Soybeans
- TRACT 2 — Approximately 8.5 Acre Tract
FSA Details Estimated - 8.5 DCP Cropland Acres
• 6.41 Estimated Base Acres
• ARC-County. Wheat, Corn, Sorghum, Soybeans
- TRACT 3 — Approximately 10 Acre Tract
FSA Details Estimated - 10 DCP Cropland Acres
• 7.68 estimated Base Acres
• ARC-County. Wheat, Corn, Sorghum, Soybeans
- TRACT 4 — Tracts 1-3 Combined.
TRACT 5 — Approximately 22 Acre Tract
FSA Details Estimated - 9.83 DCP Cropland Acres
• 5.42 Estimated Base Acres
• ARC-County. Wheat, Corn, Sorghum, Soybeans

BIDDING WILL BE IN WHOLE DOLLARS (not per acre)
Order of Sale:
1. Tract 1 will be auctioned first followed by Tract 2 & 3 with the high bid held on each tract.
2. Held bids for Tracts 1-3 will be combined and \$1,000.00 added as the starting bid for Tract 4 (Tracts 1-3 Combined).
3. If a bid is placed for Tract 4 (Combination of Tracts 1-3) upon that bid reaching its' highest amount...the public portion of the auction will conclude and a negotiation will take place between high bidders on Tracts 1-3 and high bidder on Tract 4 (Combination of Tracts 1-3). Tract 5 will follow.

Directions to Properties: From Clyde, KS go West, Southwest on HWY 9 approximately 2 1/2 miles to 260th Road. Tract 5 is on the Northeast side of intersection. Tracts 1-3 are 1/4 mile South on 260th Road. Along Southeast edge of Ames.

Listing Broker's Notes: Agricultural Producers & Investors... Here's your chance to own these Excellent Cloud County properties. These tracts offer highly productive and desirable soil types. If you've been looking to add more acres to your farming operation or investment portfolio, these properties can do all that. Contact me direct with any questions you may have on these GREAT Cloud County Kansas properties.
Mark Uhlik, Listing Broker, Cell: 785.747.8568
or Email: Mark@MidwestLandandHome.com

Terms & Possession: 10% down day of the sale, balance due at closing on or before April 18, 2019. Seller to pay all 2018 property taxes. Title insurance, escrow & closing costs to be split equally between buyer and seller. Buyer takes possession at closing. Sellers interest in mineral rights transfer with the sale. Property to be sold as-is, where-is. All inspections should be made prior to the day of the sale. This is a cash sale and is not subject to financing, have your financing arrangements made prior to auction. Midwest Land and Home is acting as a Seller's Agent and represents the seller's interest. Clay County Title, will act as escrow and closing agent. All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. Statements made the day of sale take precedence over all other printed materials.

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The days at the Wakee-ney Sale Barn have been pretty cold lately. Fortunately, my job of recording ear tag numbers gets me out of the vet shack around lunchtime and allows me to spend the rest of the afternoon in climate-controlled comfort. Dr. Jake and his able helpers are in the vet shack, depending on the size of the sale, for hours. There is a wood stove, and a gas heater, but with both ends exposed to the elements, no real way to stay warm.

With the ferocious winter we have had, the dedication of our ranchers and all the other folks involved in other stages of the beef industry is more evident than ever. Hats off, folks, salute to all those folks in the cold right now freezing their fingers to the bone for the steak on your table. Most of my jobs are indoors - writing, researching, corresponding. Days at the Fort Wallace Museum are mostly heated or air-conditioned. I don't have to chop wood to be comfortable at home or at work.

Bringing beef to your table requires no little amount of sacrifice. We do not raise cattle. Dr. Jake has his hands full taking care of the cattle on other ranches and keeping our horses and mules fed. But many of our friends raise cattle, and while I was growing up in the Blue Ridge Mountains, we raised Black Angus. We never had a large herd - an average of thirty-some head and a maximum of 60-some head, but our little 35-acre home place had enough grass to sustain them, and we didn't have to have tons of hay in the winter. It was enough to give me an appreciation for what it takes to raise cattle.

As the wind whistles past my window today, I am grateful my skills and work keep me inside. Wishing you all warm thoughts as March roars across the plains. *Deb Goodrich is the host of the Around Kansas TV show and the Garvey Historian in Residence at the Fort Wallace Museum. Contact her at author.debgoodrich@gmail.com.*

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National Sorghum Producers launches new, mobile-friendly website

National Sorghum Producers launched a new and enhanced version of SorghumGrowers.com with a refreshed brand and focus on increased grassroots engagement. The website offers an easy-to-use advocacy platform for enhanced member engagement along with the latest news and issues impacting the sorghum industry.

"The importance of grassroots representation by producer organizations is more critical now than ever," said Jennifer Blackburn, NSP external affairs director.

"This website acknowledges our member base at the heart and soul of our organization and provides a space where sorghum farmers can learn about the latest legislative and regulatory issues impacting their farms and engage easily and effectively at home or on the go."

New and updated features include:

Responsive, dynamic sizing that will allow for uninterrupted viewing on computers, smartphones, tablets and more.

An advocacy page where farmers can sign up to receive action alerts from NSP along with tips to become more engaged at home and in Washington, D.C.

Impact page featuring wins and the financial return NSP has achieved on behalf of sorghum producers, starting from its founding in 1955 to ending the China case in 2018 and more.

All-new Sorghum Grower magazine section where articles can be browsed by issue or topic, plus digital advertising availability.

A page for the newly developed "Sorghum Smart Talk" podcast where viewers can listen to latest episodes.

More information about the National Sorghum Foundation and its scholarship programs, plus ways to donate.

Those interested in viewing the website can go to SorghumGrowers.com.



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KPA hosts legislative reception



In February the Kansas Pork Association hosted its annual legislative reception at the historic Dillon House, located across the street from the State Capitol in Topeka.

KPA board members were given the opportunity to visit with legislators about challenges and advancements in the pork industry.

The reception was held in conjunction with the KPA executive board meeting and the annual meeting.

Speakers included Kansas Secretary of Agriculture Mike Beam and John Bottenberg of Bottenberg and Associates.

Outgoing KPA chairman Scott Pfortmiller, St. John, was recognized for his contribution and support of the organization. Art Sauder, Great Bend, was elected as the new chairman.

Jason Hall, Elkhart, and Emily Roush, Lebanon, were elected for another term on the board.

Incoming KPA chairman Art Sauder, Great Bend, recognizes outgoing chairman Scott Pfortmiller for his contribution to the organization.



Emily Roush, Lebanon, talks with legislators about modern pig barns.

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Phosphorus: a farmer's analysis in soil phosphorus chemistry

Agricultural producers know their soil fertility. They know how much of what to apply and when to achieve the production yields they desire. Of course, the large part of yield is left to nature's whims, but the capability of soil fertility is there. While there are some definite improvements that could be had, most crop producers have a good basis of their field soil fertility. Agronomist like myself often never get into the gritty details of soil chemistry with producers. We often focus on the "how much," rather than the "why." We don't get into the gritty details of why because they are not really important to producer yields... but maybe we should. Farmers are smart enough for it and maybe something can be found in the finer details. Phosphorus from a producer's point of view is likely the simplest nutrient. However, chemically, it is far from simple.

Phosphorus in 3 pools - Phosphorus (P) in soil can generally be divided into the groups; solution P, active P, fixed P. Solution P is by far the smallest of these pools (as in less than one lb. per acre) and the only one that plants can use immediately. P2O5 is the form that is represented in fertilizers but plants adsorb only orthophosphates, H2PO4- and

HPO42-. This conversion from fertilizer to orthophosphate is very fast in most soils. The active P pool is that which is easily released when solution P is depleted. Calcium, iron, and aluminum in soil form soluble compounds with P that adsorb and desorb while the solution P pool. Organic P (plant residue and manure) form part of this active P pool. A soil test, such as Bray or Olson, uses a weak acid to dissolve and quantify the P in the solution and certain percentage of active P. Therefore, a soil test is JUST AN INDEX - Not the actual quantity in soil. Fixed P is normally the largest pool by a great margin but it very insoluble. It is complexed in soil clay layers, hard to dissolve minerals, and stubborn organic matter. It can take years or centuries for this P to dissolve. A total P soil test can tell you how much P is in all three pools (most of it) but it involves boiling soil in strong acids for hours. Not a test useful for produce.

Phosphorus and pH - As long as there is enough water in the soil to get allow chemicals to move around, pH is the controller of P forms (along with nearly all minerals). Soils with a low pH (below 6) results in P fixed to aluminum that won't desorb into the soil solution. Soils with a high pH (above 7.5)

result in P fixed to calcium. This is why fields with plenty of P in the soil can still result in deficient P symptoms.

Phosphorus as a bank - Phosphorus can be stored in the soil and used later. As long as soil loss is controlled, the P is stored for the next crops. Potassium (K) is similar in that it can be stored in the soil but crops will tend to "luxury consume" K. This effect is not dramatic but something to consider in hay and silage production. In crop production most of the K is stored in the debris that is left on the field so not much K is lost from luxury consumption. As a very general average it takes 18 lbs. of added P fertilizer to increase background P one ppm. At low P levels (below 10 ppm), acidic soils (below 6), and heavy clay soils, take more fertilizer to increase background P levels. A good P background goal is 20 ppm. While there are likely actual differences in crops or pasture types, fertilizer recommendations tend to go with the "optimum at

20 ppm" across the board, but there are small differences of opinion among state extensions.

Phosphorus and the environment - As previously mentioned, very little P is in solution and P absorbs readily onto a number of soil components. This leads to P being a very immobile nutrient. Most P losses are associated with the loss of soil itself in erosion events. Although new research is showing that higher concentrations of P at the soil surface can lead to P losses in the runoff solution rather than the soil itself, an important note for no-till producers. This is likely to be a rate of a few lbs. per acre so more of an environmental loss rather than production loss. A common environmental threshold for P is to not go above 50 ppm. This is environmentally too simplistic but still a good producer guideline.

This crash course article in phosphorus chemistry will likely not change anyone's production habits, but I hope it will at

least provide some enlightenment on the "why." If you have any questions over soil fertility or even the finer details of soil chemistry, please give me a call. Be warned, though, I do love soil chemistry.

On March 18th a special soil program, Dirt Day, will be held in the Neodesha Civic Center from 3:00 p.m. to 8:00 p.m. This program won't cover the normal area of production crop

fertility, but important soil topics often missed such as poultry litter management, cover crops, geology of SE Kansas, erosion control, and pasture fertility. The program is for both crop and cattle producers and is free. Please call (620) 378-2167 to RSVP.

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

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K-State researchers seeking ways to protect flour

Most consumers typically don't think that a food safety risk lurks in their kitchen's flour bin, but a handful of product recalls since 2015 in the

United States and other countries is changing that mindset.

Rather than accept that it's just the way the cookie crumbles, scientists at

Kansas State University are taking the challenge head on to find ways to ensure the safety of flour and the many products that are made from it.

"When I was trained as a food scientist, one of the things we were taught is that there were a few products that were generally safe," said Gordon Smith, department head for grain science and industry at K-State. "Maybe those products were not absolutely safe, but they were on a continuum of things that were much lower risk. Flour was one of those products."

In January, 2019, General Mills announced a voluntary national recall of five-pound bags of its Gold Medal unbleached flour, citing the potential presence of salmonella. There have been no confirmed consumer illnesses as a result of the suspect flour, but the company issued the recall "out of an abundance of care," according to a statement.

The incident symbolized a heightened awareness in the flour industry that the raw product could carry such potent pathogens as Shiga toxin-producing E. coli (STEC) or Salmonella introduced at some point from harvest in a crop field to the consumer's kitchen.

"We are curious about where the contamination comes from," Smith said. "We can speculate and speculate, but no one knows the answer to that positively or if there's a single source. No one knows where it comes from or what happens during storage or processing."

Armed with world-class laboratories capable of studying dangerous pathogens in controlled settings, the university is replicating commercial milling and baking processes and introducing E. coli and Salmonella at high doses to determine ways to reduce the risk of contaminated flour and finished bakery products.

K-State food scientist and microbiologist Randy Phebus has worked for more than 30 years tracking foodborne pathogens. Since 2012, Phebus has been a lead investigator on a \$25 million project to investigate the presence of STEC in beef products and cattle.

He's now part of a K-State group that has turned a watchful eye to flour.

"Ultimately in flour, like in many other prod-

ucts, we would like to have a ready-to-eat, pasteurized product that is safe," he said. "The (food) industry is looking for that type of product, but the reality is that raw, agricultural-based products like flour are not risk free."

"We are on a quest to find a processing method or antimicrobial technology that will help the industry reduce these food safety risks to a very low probability of causing consumers to get sick or companies to have a contamination-related recall."

Kaliramesh Siliveru, an assistant professor in the Department of Grain Science and Industry, is leading computerized modeling of grain processing, re-creating the life of flour from the time a wheat stalk is grown in a farmer's field to the time flour is scooped out for a homemade cake or cookies.

That work is finely detailed, essentially building a picture of the entire environment for flour processing.

"You have to make certain that the entire chain is clean," Siliveru said.

He added that, in practice, computerized modeling provides a fuller understanding of the potential spots where E. coli or other pathogens may be found, whether that be in the field, during harvest, at the flour mill, in a consumer's kitchen or someplace else.

"Computer modeling also provides insight into how these pathogens are transferred in the supply chain from farm to table and allows us to design a kill step to inactivate these dangerous pathogens," Siliveru said.

Phebus notes that K-State's work responds to an important industry issue to maintain the safety of flour and baked products.

"Companies have a brand and the liabilities that go with marketing retail or wholesale flour," he said. "It's also a very important food service issue because if you're a pizza parlor or something like that making bread, you've got to know that you're not going to be making people sick."

"And it's a home kitchen issue because if you've ever baked a cake, you know that even if you've baked the cake well, the flour gets all over the kitchen, so it's a cross-contamination hazard."

Smith noted that K-State's work includes faculty in the university's grain science department and the Food Science Institute. K-State also is working with the Manhattan-based American Institute of Baking, which works with more than 200 bakery companies across the United States, and several milling and processing equipment companies.

Parts of the studies are being carried out in the Hal Ross Flour Mill, located in the university's grain science complex in Manhattan, and in food safety labs in the Department of Animal Sciences and Industry.

"It's high level research, but it's also information that is part of teaching students," Phebus said. "We may be training the first generation of food science, milling and baking science students who will be food safety experts concentrating on grain handling, flour milling, bakery products and even pet food."

Kansas cattle on feed up two percent

Kansas feedlots, with capacities of 1,000 or more head, contained 2.33 million cattle on feed on January 1, according to the USDA's National Agricultural Statistics Service. This inventory was up 2 percent from last year. Placements during December totaled 395,000 head, down 1 percent from 2017. Fed cattle marketings for the month of December totaled 410,000 head, up 1 percent from last year. Other disappearance during December totaled 15,000 head, unchanged from last year.

*** AUCTION ***
Personal Collection of Richard & Martha Newkirk
SATURDAY, MARCH 23, 2019 — 9:00 AM
 1390 Lynx Road — BURLINGTON, KANSAS 66839
 International & Farmall Tractors, Implements, Parts & Accessories; large amount of Wheel Horse lawn & garden tractors & equipment; IH Cub Cadet collection; stationary gas engines including a 3 hp John Deere w/original cart; Pedal Tractors; John Deere tractor & implements; Lots of collectibles & farming equipment; Signs; Trucks & Trailers; and lots lots more!
Complete sale bill: www.kansasauctions.net/kurtz
AUCTIONEER:
Darwin W. Kurtz
785-448-4152
Richard Newkirk, Owner
620-203-0065

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ANNUAL PRODUCTION SALE

SATURDAY · MARCH 16TH, 2019
 SALE 1:00 PM · AT THE RANCH · 1716 280 RD · FORMOSO, KS
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 817 · GOLD STANDARD/ DENALI BW 83 · Adj WW 689 CE 7.7 · BW -0.3 · WW 31 · YW 61 · Milk 8 · TSI 209.90	 804 · RESOURCE/SLAM DUNK BW 80 · Adj WW 724 CE 7.8 · BW -0.5 · WW 35 · YW 60 · Milk 16 · TSI 207.18	 8910 · BELLS&WHISTLES/WYOMING WIND BW 88 · Adj WW 720 CE 5.6 · BW 1.0 · WW 34 · YW 62 · Milk 14 · TSI 206.27

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Angus Genetic Alliance

Bull & Female Sale

**** Sale Date **: Saturday, March 23, 2019**

View Cattle: 10:30 AM - 3:00 PM • Selling Starts At Noon

SELLING

- 25 Yearling Registered Angus Bulls
- 25 Fall Yearling Registered Angus Bulls
- 10 Registered Angus Young Bred Cows & Pairs
- 15 Registered Angus Open Replacement Heifers

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LAND AUCTION

SATURDAY, MARCH 23, 2019 — 10:00 AM
 Kloppenberg Center — HANOVER, KANSAS

80 AC.± WASHINGTON COUNTY LAND

Legal Description: S14, T02, R05, 6th Principal Meridian, 80 ACRES, S2 NW4 EXC RD ROW.
FSA Details (78.95 FSA acres): • 65.09 DCP Cropland Acres
 • 60.50 Total Base Acres with 40.34 Soybeans Acres & 20.16 Wheat Acres
 • Soybeans & Wheat enrolled in ARC County
2018 Property Taxes: \$1,625.45
 • Buyer to take full possession of this property at closing.
 • Sellers ownership interest in mineral rights to transfer with sale of property.

Property Location: From the intersection of All American Road (148) and 22nd Road go East on 22nd Road to Big Bear Road. Property is located on the Southeast side of 22nd Road and Big Bear Road intersection.

Listing Broker's Notes: Producers, Investors & Home Builders ... Here's your chance of a lifetime to buy a GREAT piece of property that offers something for everyone no matter if you're looking for the perfect addition to your farming operation or investment portfolio, or a spot to build your dream home. Contact me today for additional information!
Jeff Dankenbring, Listing Broker, Cell: 785-562-8386 or Email: Jeff@MidwestLandandHome.com

Terms & Possession: 10% down day of the sale, balance due at closing on or before April 26, 2019. Sellers to pay 2018 taxes. Title insurance, escrow & closing costs to be split equally between buyer and seller. Buyer takes possession at closing. Property to be sold as-is, where-is. All inspections should be made prior to the day of the sale. This is a cash sale and is not subject to financing, have your financing arrangements made prior to auction. **Midwest Land and Home is acting as a Seller's Agent and represents the seller's interest.** Galloway Wieggers & Brinegar, attorney for sellers, will act as escrow and closing agent. All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. Statements made the day of sale take precedence over all other printed materials.

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Organic wheat: K-State joins Heartland Plant Innovations and others to explore breeding platform

The southern Great Plains has a reputation for growing a large percentage of the U.S. wheat crop that is so important to millers and bakers around the globe who depend on it for making bread and general purpose flour. But because of lower prices, compounded by weather challenges in recent years, fewer and fewer overall acres have been planted to wheat. A February report by the U.S. Department of Agriculture estimated U.S. winter wheat planted area at a 110-year low.

One part of the wheat industry bucking that trend is organic wheat production. While still a tiny part of overall U.S. wheat output, organic production – wheat certified by the USDA to be grown free of chemical pesticides and fertilizers – grew by more than 11 percent to 10.5 million bushels, according to the USDA’s most recent report. That crop was grown on more than 336,550 acres.

Organic wheat sought by millers and bakers for use in flour and ultimately for organic bread, pastries, crackers and snacks, commands prices sometimes two to three times higher than conventionally grown wheat.

But growers considering switching from conventional wheat production to organically grown wheat face obstacles, including a lack of research focused on which existing varieties grow well in organic environments and a need for new varieties developed specifically for organically managed fields.

To address the benefits and challenges, Heartland Plant Innovations, a for-profit innovation company that was formed through a collaboration of Kansas wheat producers via Kansas Wheat, Kansas State University, and private investors, conducted a survey of organic wheat growers in the southern Plains and organized a conference in late January in Manhattan, attended by wheat producers, plant breeders, flour millers, Extension professionals and other industry representatives.

“HPI’s goal in hosting this conference was to uncover the challenges and opportunities within the organic wheat industry,” said HPI president Dusti Gallagher. “The outcome of this conference will be to produce an industry-wide white paper that will assist in advancing the industry forward. HPI’s efforts will focus on exploring opportunities to breed and evaluate wheat lines optimized for organically managed lands.”

from them. He and his wife Ashley along with his parents, Tim and Robyn, grow organic wheat on farmland near St. Francis, in the far northwest reaches of the state. Their land has been in the Raile family tracing back to Gottlieb Raile Sr., who arrived in the United States from Odessa, Russia in 1885.

“My current farming operation is in transition to be fully organic on all my acres,” Raile said, adding that about half his acres are already certified and the rest are in the transitional phase. “Before becoming organic, I was a conventional no-till farm.”

Making a transition from a conventional wheat operation to certified organic takes three years, during which the grower cannot use synthetic fertilizers or chemicals. Crops produced in those three years must be sold on the conventional market.

“Weed control is the biggest challenge, since the only method available is mechanical removal,” Raile said, adding that seeking out markets for organically grown wheat is something of a challenge but one he likes. “I enjoy seeking out new markets and building relationships with past buyers, since it’s

unlike the conventional marketplace and being able to sell it locally.”

Other crops he is considering are organic barley, oats, peas, millet and sorghum.

Because they cannot use synthetic pesticides or fertilizer on their fields, organic farms on average produce about 23 bushels per acre less wheat than conventional farms.

Protein was the top priority for organic farmers according to the survey and conference participants. Other priorities include test weight, disease resistance, falling mixograph/farinograph numbers (which are used to measure specific properties of flour), and yield.

Early vigor was also mentioned so the wheat can grow quickly, spread out and tiller early in order to out-compete weeds. Many of the newer varieties, growers said, have been developed so the stalk and head structure are upright, which work well in conventional systems where spraying for weeds can occur. Organic growers, however, prefer heads that splay over and provide shade in the rows, which impedes weed growth.

In addition to the three-

year transition phase, lower yields, and weed and pest control, producers said other challenges in changing to organically grown wheat include a lack of crop insurance instruments that would protect transition-

ing and organic producers. A lack of wheat varieties that have consistent kernel size. The need for separate storage and transportation. Price transparency and market information are

difficult to come by. The survey and conference were supported by an Agriculture and Food Research Initiative grant from the USDA National Institute of Food and Agriculture.



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Offered in 6 Tracts


GENERAL INFORMATION: These farms were recently acquired by an area bank and offer the opportunity to purchase good productive cropland in areas where land seldom changes hands. Visit www.arrowprintco.com/claycountyland or www.kretzauctions.com for soil maps, FSA photos and other information.

Tuesday, March 26, 2019
7:00 p.m.

Sale held at the Catholic Parish Center
730 Court, Clay Center, Kansas

RECREATIONAL POSSIBILITIES: Several of these tracts to be sold feature good thick timber. Are you tired of asking landowner's permission to hunt turkey and deer... give these tracts a look. Several of the tracts have enough firewood to last for generations.

POSSSESSION: **Open Ground: Immediate**
Grass & Timber: Immediate
Wheat Ground: After 2019 wheat harvest. Buyer to receive \$50.00 per acre cash rent credit at closing based on planted wheat acres.





FSA INFORMATION:

	Farmland Acres	Cropland Acres	Wheat Base/Yield	Corn Base/Yield	Sorghum Base/Yield	Soybean Base/Yield
Tract #1	152.12	104.71	60.00/33	00/00	21.3/82	11.50/38
Tract #2	48.66	37.11	5.29/32	8.03/134	4.84/85	15.91/39
Tract #3	81.92	80.12	11.44/32	17.35/134	10.47/85	34.39/39
Tract #4	158.14	137.09	19.32/32	29.32/134	17.7/85	58.10/39
Tract #5	155.01	114.74	16.36/32	24.82/134	14.98/85	49.18/39
Tract #6	157.62	97.84	13.98/32	21.20/134	12.80/85	00/00

The above are FSA estimates only and are not guaranteed.

TRACT #3: 81.3 taxable acres in SE/4 of 28-8-3E, Clay County. An outstanding irrigated farm with 700 gallon well with senior water rights. Sells with 2006 Valley irrigation system. Farm is subject to some flooding from Republican River. 80.12 acres tillable (all in wheat). Soil is primarily Muir Silt Loam Class I and Eudora Loam Class I. 2018 taxes were \$3,279.84 based on 81.2 taxable acres.

TRACT #4: SE/4 of 20-8-4E, Clay County. New fence on north, east and south boundary lines. Good blacktop along east boundary line and gravel along south boundary line. 129.8 acres tillable (all open), 9.8 acres waterways, 10.8 acres good thick timber. Soil is primarily Crete Class III & IV and Muir Class I. 2018 taxes were \$2,630.18 based on 155.8 taxable acres.

TRACT #5: NW/4 of 28-8-4E, Clay County. Farm has two 12,000 bushel bins, a 50 x 150 cattle shed with a 20 x 150 lean-to, feeding facilities and 20-year old irrigation system with good surface water rights. Also includes 20 year old 40 x 50 Quonset shed with concrete floor. Excellent building site location. Miscellaneous iron on property will be removed by closing date of May 16. Newer fence on East and West boundary lines. 114.74 acres tillable (63 acres irrigated and in wheat, balance open), 39.21 acres grass and waste. Soil is primarily Muir Silt Loam Class I and Crete Silt Loam Class II. 2018 taxes were \$3,339.28 based on 154.3 taxable acres.

TRACT #6: NW/4 of 26-8-4E, Riley County. Good gravel access to northwest corner. Pond in northwest corner needs work. Modest pond in southeast corner. 96.67 acres tillable (all open), balance grass, meadow & timber. Cropland is primarily Wynore Silty Clay Class II. 2018 taxes were \$1,855.66 based on 155.6 taxable acres.

TERMS AND CONDITIONS: 10% due day of sale, with balance due May 16, 2019. If for some reason title conveyance cannot be completed by May 16, 2019, buyer to pay 10% per annum interest on unpaid balance from May 16, 2019 until date sale is closed.

2018 real estate taxes and prior years paid by Seller. Title Insurance will be used with cost split equally between Buyer and Seller. Clay County Abstract & Title Company will serve as Closing Agent. All mineral rights owned sell with property. Property selling "as is" with no guarantees or warranties made by seller.

Announcements made at the auction take precedence. All information given is from sources deemed reliable, but not guaranteed. Property selling subject to easements, restrictions and reservations if now existing. Auction Company is representing the seller in this transaction.

FINANCING: 85% of purchase price financing available to qualified buyers. If interested, contact Dennis or Kirk at Solomon State Bank #785-655-2941.

SALE CONDUCTED BY: CLAY COUNTY REAL ESTATE
Greg Kretz, Salesman & Auctioneer
Cell Phone: (785) 630-0701

SELLER:  **Solomon State Bank**
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ESTATE AUCTION #3

SATURDAY, MARCH 16, 2019 — 9:00 AM
2110 Harper, Bldg. 21 , Dg. Fairgrounds — LAWRENCE, KS

VINTAGE FURNITURE
J&P Coats "Best Six Cord" 6-drawer Spool Cabinet; Oak 4-tier china/bookshelf cabinet w/top mirror; 4-tier Walnut glass bookshelf; marble top dresser; carved parlor tables; Glass Ball Foot Unusual Piano/Seat stool; ornate rockers; kitchen primitive cabinet; large primitive box w/lid; dry sink cabinets; carved entry wall mirror; Walnut dropleaf tables; Oak Coat Rack; end tables; several styles ornate chairs; child's wooden furniture; tea-cart; several vintage pictures & frames!; solid wood doors w/ hardware.

COLLECTIBLES, GLASSWARE & MISC.
Matching 2'x3' Cast-Iron Lions; Gargyle brass folding fireplace screen; Charlie Weaver Bar Tender; 6' Brass Sleigh Bells; 1970 Winchester 1898/1899/1900 calendars; Buffalo Bill Print; cast-iron Boxer Dog; several cast-iron door stops; Arcade wall mount Coffee Grinder; Crown #10 Metal Coffee Mill (Rare!); wooden coffee mills; cream strainer & tapered cream can; cherry pitter; Howe small grain scale; Dayton "Computing Scale" Pat 1900; Columbian Postal scale; The Magnavox phonograph horn; Arcade cast-iron Model T sedan car; several cast-iron banks (Longhorns, Cats, Sheep, Postal, Buildings); stereoscope view cards; post cards; Valentines; Zellner Merchant Co. Tonganoxie, KS Crock Bowl; Perfection oil heater; 1896 WMA Stick-ney Cigar Co. #130 glass cigar box; **Clocks:** Felix clock, 1970 Snoopy Alarm Clock, Kitchen, Mantel, Wall, Alarm; Mickey Mouse/Howdy Doodo/Mrs. Beasley/Vintage dolls; "Lightning" Amber qt. jar; ashtrays of all styles; Jayhawk Taxi badge; old style J-Hawk shot glass; Law. Sanitary paper fan; marbles; lighters; 4 pack cigarette case (Camel/Old Gold); Stage Coach chalk lamps; numerous styles of lamps; Aladdin Amber B lamps; several oil lamps; Butter blue crock; Parrot glass lamp; bird cage feeders; head vases; vintage cookie jars; **100s Glassware:** Roseville 329-10 Apple Blossom bowl, Roseville 437 Water Lily vase, Fiesta yellow tray (green & yellow) & Fiesta roshin candle tripod vase, Hull, Weller, McCoy, Shawnee, Jadite, 100 pieces of Carnival (Marigold), Nippon, Germany, Fire King Game, Blue, Country Casual Pfaltzgraff (NIB), Hen/Nests & Wall Pockets, Roosters/Hens; Shirley Temple glasses; S/P's; **Knives:** Will Rogers Schrade, original Bowie/many others!; small lead ammo mold; photo albums; Black Beauty/Huck Finn/Old Books; vintage calendars/prints; kitchen primitives; 100+ box lot items; **numerous items too many to mention!**

JEWELRY 9:00 A.M.
100s of Pieces: Turquoise (rings, bracelets, necklaces), Sterling; Costume (broaches, rings, necklaces, bracelets, ear rings), **Many Many Pieces!!**

AUCTION NOTE: This is the 3rd of Several Auctions that we will conduct as this Estate has not been touched in 50 Years! They were avid Auction/Garage Sale Goers that bought anything and everything! Many Unusual Collectibles & Primitives that date back to 1900s from Lawrence & Surrounding Areas!
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New Haven Pay Raise F047
CED, +8; BW,+1.5; WW. +55; YW, +103; \$B, +122.74

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Who owns the data from your operation?

By Joe Aker

Do you own the data collected from precision technology used in your

farming operation?

The use of precision farming technologies is ever expanding in farm-

ing operations across rural America. We know who owns the bushels produced and their value, but

who owns the data your combine, tractor, planter, sprayer, and irrigation systems are producing and, even more importantly, who owns the value that data has?

Combining all the yield and soil maps, irrigation, weather, input application, and planting data, which is increasingly accurate and detailed, a farmer can predict, enhance, prescribe, and refine their cropping inputs for current and future growing years. This added value is specific to the land the crops are growing on and can aid an operation continually by saving money from overapplication and increasing profits where increased application is necessary. Some fields save pennies, others dollars per acre; both add up significantly over thousands of acres.

In a lease agreement, a landlord may have a claim for the data collected on their land. The tenant operator has just as much of a claim if they are the ones who purchased and implemented the tools that collect the data. The best way to sort out this dilemma is to have a written lease that specifies who owns the data collected during the cropping year(s) of the lease. However, most farm leases are oral and if data ownership is contested, there is no statutory guidance to determine the data's ownership. Details such as whether the lease agreement is a cash-rent agreement, or a crop-share agreement are extremely vital when determining who may have a claim for the data's ownership. In the world of technology, courts are usually not in the forefront of dilemmas created by its implementation; the same applies here. Courts have not decided this issue yet.

Written lease agree-

ments detailing ownership are an easy solution. Similarly, a written operating agreement specifying data ownership in a partnership, LLC, or Corporation can aid in the event of a dispute. For example, two brothers own equipment and operate as an LLC end up in a dispute and go their separate ways, which brother has a claim for the ownership of the precision farming data collected by the LLC's farming operation? Put it in writing and help prevent any problems.

What if in the same scenario of the LLC going through dissolution, the brothers were also tenants of leased land data was collected on and the landlord, now terminating the lease and bringing in a new tenant, wanted to retain the data collected by the brothers and give it to the new tenant? From the landlord's perspective, the data is of important value because the new tenant would have a head-start to knowing what inputs and outputs the land needs and is capable of. From the outgoing tenant's perspective, the data collected was valuable to them during their lease for which they incurred expenses collecting the data and it would be unjust enrichment for the incoming tenant.

One argument giving ownership of precision farming data to the producer is attempting to classify it as a trade secret. According to the Uniform Trade Secrets Act, a "trade secret" is: "information, including a formula, pattern, compilation, program, device, method, technique, or process, that: (i) derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper

means by, other persons who can obtain economic value from its disclosure or use, and (ii) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy." Although this seems straightforward, one commenter argued that "all of the definitions at least imply a requirement of something more than raw information; for example, courts demonstrate a strong predisposition to protection of 'business information' such as business methods like market surveys, business plans, and service models. That line of reasoning seems more analogous to a farmer's marketing plans or business analyses than farm data itself. If one argues farm data collectively represents the embodiment of a process of growing a crop rather than simply comprising descriptive information about the crop, one might attempt to leverage the cases demonstrating what appears to be a predisposition of courts to grant trade protection to process information." Although no court has ruled that precision agriculture data constitutes a trade secret, the definition of a trade secret provides a path to argue during litigation over the ownership rights of the data in favor of the farmer.

Another data ownership claim could be held by the technology company who created the data collection tool itself. For this claim, it is important to read the software terms of conditions and use agreements.

The technology company could have, and in many cases, does have access to detailed, minute-by-minute data collected by a farmer about: the rainfall, weather, temperature, seeding population and variety, fertilizer rates and frequency, chemical applications, soil type and holding capacity, irrigation data, photoperiod, crop disease intensity, drought pressure, yield, and the list goes on. This detailed, real-world, minute-by-minute research and development of new crop inputs like seed, chemicals, fertilizers, and precision agriculture technology is very valuable to companies behind these innovations. This in-field research can provide much needed information to companies trying to perfect and develop new technologies in production agriculture. Precision agriculture technology companies surely cannot ignore this potentially very lucrative use for the data stored on their clouds and servers by producers. However, when "(m)any companies offer consulting or data analysis services, (they) have company policies addressing various concerns such as confidentiality of the information, specifying to whom the data may be disclosed, and uses that may be made of the data."

So, to answer the question who owns precision farm data, read your agreements, and if you don't have it in writing be sure to find professional assistance familiar with the newest advancements in agricultural technology.

Disclaimer: The information in this article is intended for general informational purposes only. This information is not intended to be, nor should be interpreted as, legal advice or a legal opinion. The reader should not consider this information to be an invitation to an attorney-client relationship, should not rely on the information presented here for any purpose, and should always seek the legal advice of counsel in the appropriate jurisdiction.

About the author: Joe Aker is a fifth generation farmer in Abilene and a Partner with Cottonwood Law Group, LC in Abilene where he practices agricultural law and taxation, estate and business planning, and family law. www.cottonwoodlawgroup.com



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oleenbros.com

Dwight, KS P.O. Box 8 66849

Arden: (785) 466-1422

Jan: (785) 466-1421

Jesse: (785) 499-3250

15 Black Hereford Qualifiers
Bred to Homo Black Bull



Colts with Color & Pedigree



The Best of Both Worlds

Production Sale:

March 25th 2019 @ 12:00

68 - Hereford Bulls

57 - Angus Bulls

16 - 2YR Old Angus Bulls

100 - Heifer Pairs (BWF, HH, AN)

100 - Bred Heifers (BWF, HH, AN)

30 - Open BWF Yearling Heifers

26 - AQHA Colts & 4 - Riders

BAXTER BLACK

ON THE EDGE OF COMMON SENSE

Pull My Finger

ATTN: This is addressed to teenagers, tuba players and grown-ups in the news media who have gotten great giggles out of the story that cow flatulence is a danger to mankind!
It can be expected

from those that have the attention span of a Bartlett pear, but tuba players should know better.

Cows do not flatulate. Allow me to give you a lesson in bovine physiology. Cows are herbivores, vegetarians. They live on

grass. Cows are big: 1,000 lbs. Cows eat a lot of grass. They have four stomachs, the biggest is the rumen. The rumen's job is to prepare grass and roughage to make it digestible by the other stomachs and the alimentary track. This is done by bacterial digestion and fermentation, and physical maceration.

Now, cows lead a fairly boring life. They graze and chew their cud. The cud is a baseball-size wad of chewed, swallowed, re-chewed, regurgitated, chewed and swallowed

grass, ad infinitum. This cud is part of a magnificent digestive mechanism that allows cows and other ruminants to utilize fibrous vegetative material that is otherwise completely indigestible by simple-stomached animals like... people. For instance, cows can derive nutritional benefit from lettuce! Who'd a thunk it!

People eat lettuce because it is the next best thing to eating nothing. If you wanna lose weight, the best way is to eat... (?). No, not lettuce, Noth-

ing! But nobody wants to eat nothing, so they eat lettuce, which is the next best thing.

This whole issue involves greenhouse gasses emitted into the atmosphere. There are three; carbon dioxide (CO2), methane and nitrous oxide.

METHANE comes from fermentation of organic breakdowns; compost in your flower garden, garbage dumps, rice paddies, wetlands, domestic and wild ruminants, and alcoholic beverages...agricul-

ture produces 5.8% of all greenhouse gasses.

CARBON DIOXIDE comes from fossil fuels like coal, oil and natural gas, their energy production, transportation and use. CO2 accounts for 86.3% of all Greenhouse gasses. Transportation (cars and trucks) amount to 33% of all fossil fuels used.

What do we do with all this information? Eliminate non-essential herbivores? Starting with elephants, buffalo, goats, horses, prairie dogs and termites. Next they begin to regulate our diet; no sugar, no organic food (too inefficient) and how about trees? They absorb CO2 and produce oxygen but what if we have too many trees and they won't let you cut them down? I can picture an army of bureaucrats regulating the use of gasoline, diesel, electricity, construction... wait a minute! They already do!

Back to cow "flatulations;" the methane that cows emit comes directly from the rumen. They belch it up. Not as funny, but at least now you know.

In the U.S., 30 million cows emit more methane than all the cars. 125 million cars produce more total greenhouse gasses than cows. Which is worse for our environment? Hard to say which is more essential; agriculture or transportation? How long can you live without driving?
www.baxterblack.com

10, 12 & 14 Bale Hay Trailers



- 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

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THE WORKHORSE OF WESTERN KANSAS



As winter shows no sign of loosening its grip, seeing its beauty in obscure places seems to be the best bet, as in the case of icicles on this antique threshing machine near Leonardville.
Photo by Kevin Macy

Farmers & Ranchers AUCTIONS EVERY MONDAY & THURSDAY

Selling Hogs & Cattle every Monday

RECEIPTS FOR THE WEEK TOTALED 2,819 CATTLE & 17 HOGS.

STEERS			
400-500	\$175.00 - 186.50	8 blk	Ellsworth 636@144.00
500-600	\$163.00 - 176.00	8 blk	Delphos 636@143.00
600-700	\$150.00 - 160.50	12 blk	Marquette 524@143.00
700-800	\$136.00 - 148.00	45 blk	Claffin 671@142.50
800-900	\$130.00 - 140.00	16 blk	Galva 657@139.50
900-1,000	\$123.00 - 131.00	5 mix	Gypsum 644@138.50
		19 blk	Tescott 686@138.50
		12 blk	Clay Center 660@137.00
		17 blk	Ellsworth 708@135.50

HEIFERS			
500-600	\$145.00 - 159.00	3 mix	Geneseo 673@135.50
600-700	\$140.00 - 152.00	47 blk	Claffin 749@134.00
700-800	\$123.00 - 135.50	115 mix	Moundridge 687@133.25
800-900	\$118.00 - 128.00	5 mix	Brookville 688@133.00
900-1,000	\$112.00-\$123.25	7 blk	Lindsborg 676@133.00
		6 blk	McPherson 715@133.00
		12 blk	Longford 745@133.00
		3 blk	Assaria 697@132.50
		4 blk	Mt. Hope 751@131.50
		6 blk	Delphos 724@130.50
		3 mix	Canton 718@130.00
		11 mix	Lindsborg 756@130.00
		6 blk	Clay Center 772@129.50
		9 blk	Marquette 767@129.50
		23 blk	Geneseo 788@129.00
		31 mix	Hope 796@128.75
		4 blk	Little River 829@128.00
		5 blk	Inman 842@128.00
		9 mix	Gypsum 811@127.50
		4 blk	Clay Center 865@127.50
		3 red	Clay Center 845@127.50
		11 blk	Carlton 845@127.25
		10 mix	Abilene 834@127.00
		11 blk	Carlton 934@123.25

THURSDAY, FEBRUARY 28

STEERS			
11 blk	Tescott	431@186.50	
4 blk	Mt. Hope	439@185.00	
7 blk	Marquette	339@184.00	
4 blk	Lindsborg	456@180.00	
10 blk	Tescott	477@179.00	
2 blk	Tescott	373@178.00	
2 bwf	Wakefield	520@176.00	
4 blk	Bennington	524@175.00	
6 blk	Bennington	589@174.00	
3 blk	Colwich	540@168.00	
6 blk	Lindsborg	599@165.00	
5 blk	Colwich	584@164.50	
7 blk	Falun	604@160.50	
10 mix	Bennington	644@159.00	
14 blk	Mt. Hope	703@148.00	
19 blk	Tescott	709@146.50	
12 mix	Lindsborg	725@144.00	
5 blk	Assaria	751@143.50	
10 mix	Little River	720@142.50	
4 blk	Partridge	714@142.50	
9 blk	Clay Center	728@142.00	
23 blk	Marquette	816@140.00	
43 mix	Great Bend	802@138.60	
31 mix	Gypsum	794@138.50	
28 mix	Gypsum	827@137.25	
46 blk	Assaria	840@136.85	
66 mix	Durham	845@136.00	
9 blk	Clay Center	829@134.00	
5 blk	Brookville	926@131.00	
8 blk	Little River	918@130.50	
57 mix	Florence	914@130.35	

MONDAY, FEBRUARY 25

CATTLE & HOG SALE:

HOGS

13 fats	Newton	265@39.00	
BABY CALVES			
1 bwf	Minneapolis	115@400.00	
1 blk	Minneapolis	100@360.00	
1 blk	Minneapolis	85@350.00	
1 bwf	Tampa	90@335.00	
1 blk	Minneapolis	75@335.00	

BULLS

1 red	Salina	1850@87.00	
1 blk	Gypsum	1985@86.00	
1 blk	Gypsum	2090@85.00	
1 blk	Stillwater, OK	1755@83.00	
1 blk	Salina	2130@83.00	
1 red	Salina	1430@83.00	
1 blk	Salina	2190@80.50	

COWS

1 red	Gypsum	1400@74.00	
1 red	Hillsboro	1590@72.00	
1 char	Gypsum	1575@72.00	
1 red	Ellsworth	1685@72.00	
1 blk	Gypsum	1730@71.50	
3 blk	Salina	1792@71.00	
1 blk	Ellsworth	1600@70.00	
1 blk	Ellsworth	1545@69.50	
1 red	Hillsboro	1715@69.00	

For information or estimates, contact:

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

Jim Crowther 785-254-7385 Roxbury, KS	Lisa Long 620-553-2351 Ellsworth, KS	Cody Schafer 620-381-1050 Durham, KS	Kenny Briscoe 785-658-7386 Lincoln, KS	Kevin Henke H: 785-729-3473, C: 785-565-3525 Agenda, KS	Austin Rathbun 785-531-0042 Ellsworth, KS
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Cattle Sale Broadcast Live on www.cattleusa.com 1150 KSAL, Salina 6:45 AM -MON-FRI * 880 KRVN 8:40 AM - WED.-THURS. *550AM KFRM - 8:00 am, Wed.-Thurs.

Livestock Commission Co., Inc. Salina, KANSAS

SALE BARN PHONE: 785-825-0211

MONDAY — HOGS & CATTLE

Hogs sell at 10:30 a.m. 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, ANDREW SYLVESTER & GARREN WALROD

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



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

**Starting in FEBRUARY ALL SPECIAL Sales will start at 11:00 AM!!

UPCOMING SPECIAL SALES:

**Starting in FEBRUARY ALL SPECIAL Sales will start at 11:00 AM!!

SPECIAL COW SALES
• TUESDAY, MARCH 19 • TUESDAY, APRIL 16 • TUESDAY, MAY 7

OTHER SPECIAL SALES:

- ★ Monday Evening, March 4th: Don Johnson Angus Sale
- ★ Saturday, March 23rd: New Frontier Bucking Bull Sale
- ★ Saturday, May 18th: Spring Spectacular Horse Sale

EARLY CONSIGNMENTS FOR THURSDAY, MARCH 7:

- 10 steers 700-800
- 15 steers & heifers, home raised, bunk broke, long time weaned, vacc, 400-650.

LAST CALL!

Get Your HORSES CONSIGNED TODAY for our SPRING SPECTACULAR HORSE SALE!

Saturday, May 18, 2019 • starting at 10 AM

WE NEED YOUR STUFF THIS WEEK!

- May 17th @ 1:00 PM Rope Horse Preview
- May 17th @ 6:00 PM Ranch Horse Competition
- May 18th @ 7:00 AM Rope Horse Preview
- May 18th @ 10:00 AM Spring Spectacular Horse Sale

IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- 6'8" x 24' GOOSENECK STOCK TRAILER METAL TOP
- 6'8" X 24' GOOSENECK STOCK TRAILER

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

