

Governor's Water Conference focuses on water resource management

Approximately 600 attendees with diverse water interests were encouraged at the Governor's Conference on the Future of Water in Kansas to keep pushing forward with implementation efforts for accomplishing regional priorities within the Long Term Vision for the Future of Water Supply in Kansas to ensure our state's water future.

"Four years have passed since I first called for the 50 Year Water Vision and the progress we have seen is great, but the state of Kansas needs to remain focused on a sustainable water future," said Gov. Sam Brownback. "Kansans must act on a shared commitment to have the water resources necessary to support the state's social, economic and natural resource needs for not only our current generation but



Pat Sauble, center, was presented the Water Legacy Award for devoting much of his life to water conservation in Kansas. Presenting the award was Gov. Sam Brownback and Tracy Streeter, director of the Kansas Water Office.

Photo by Donna Sullivan

most importantly our children and grandchildren."

Attendees heard updates on water resource statuses and continued implementation of the Vision as well as areas of concern throughout the state. Progress con-

tinues to be made through local, state and federal efforts to implement conservation practices to improve water quality and decrease reservoir sedimentation but much work still remains. To date 164 failing stream-

banks have been stabilized but more than 600 still need to be addressed. Reservoirs within Kansas continue to lose storage due to sedimentation. In regards to the groundwater they heard how an expanded Index Well network continues to provide valuable real-time data on conditions to help lead to better water management decisions. The Sheridan 6 Local Enhanced Management Area (LEMA) is having positive impacts on water conservation efforts in the region and Water Conservation Areas continue to be established across Kansas. However, current enrollment only accounts for 0.4 percent of all acres where these water conservation and planning tools can be utilized statewide.

"As we have mentioned many times before, this Vision process was set in motion by the Governor when he asked us to look long-term for water supply across the state, and for sustainability in the Ogallala aquifer. Water supply challenges are not an issue confined to one user group — they are not confined to one area of the state," said Kansas Water Office director Tracy Streeter. "It is a challenge that crosses state agency lines and we will continue to push forward

as this Vision is integrated into our existing Water Plan."

The morning featured the "Water Legacy Award" which was presented to Pat Sauble, who has been an influential and steady voice for water conservation in Kansas for a majority of his 96 years. Among many honorable accomplishments, he was recognized for helping establish the Kansas Watershed Association and served as the first president and also served as director of the Kansas Association of Conservation Districts for many years. Sauble also represented Kansas on the national level for resource management on the National Cattlemen's Beef Association Property Rights and Environmental Management Committee.

This year's 'Be the Vision' award recipients were also honored for taking extraordinary measures to conserve, reuse or adopt better practices to help ensure the future of our state's water resources. This year's recipients were the City of Wichita for their innovative stormwater best management practice implementation program; the Lower Smoky Access District — agriculture and municipal partnership; the Wichita County Water Conservation Area and the Dwane Roth

Family for their leadership in conservation efforts over the Ogallala.

The rest of the day continued with Jim Gulliford, EPA Region 7 Administrator; Michael J. Teague, Oklahoma Energy & Environment, Secretary; and four panels highlighting different water topics, Water and Emergency Response; Public Water Supply and Agriculture — Solving non-point source pollution problems together; Overcoming Water Scarcity — The Israeli Approach; Sustainability Initiatives in Agriculture; The Farm Bill's Role in Water and Natural Resource Management

The conference also featured the Kansas Water Office Photo Contest. More than 120 photos were submitted to be voted on as the 'people's choice' at the conference. The winner will be featured on the 2018 brochure, website and other locations throughout the coming year.

The Governor's Conference on the Future of Water in Kansas is hosted by the KWO, Kansas Water Resource Institute/K-State and the Kansas Geological Survey/KU. Major sponsors for the event include Black & Veatch, Burns & McDonnell and Great Lakes Dredge & Dock.



Mick and Shelly Bigham have placed a small temporary office on the location of the shooting range they plan to break ground on in December.

Shooting range planned in Salina

By Donna Sullivan, Editor

Ground will soon be broken on a new indoor shooting range in Salina. Mick and Shelly Bigham plan to begin construction on their Centerfire Range and Training Center in early December at Old 40 and North Street.

Shelly served for ten years with the Salina Police Department and Mick, an avid hunter and outdoorsman, has been in management for over fifteen years for a welding and gas supply company. "Mick has always wanted us to do some kind of project together, where we owned our own business and had a little bit of freedom," Shelly said. The couple originally thought they might open a bar and grill, but with her experience in the police department and going to the shooting range, the conversation came up that there wasn't any place in Salina

for the average person to be able to go and target shoot. "The rest was him convincing me that this was a good way for us to go," she said.

Centerfire Range and Training Center will have two separate bays with six 25-yard shooting lanes in each and a retrieval system for moving the targets back and forth. The shooting lanes in the 16,000-square-foot facility will be surrounded by eight-inch concrete walls, military-grade ballistic material and noise abatement panels. Plans call for a state-of-the-art range ventilation system as well. The training center will feature a large room that will seat fifty people comfortably for classes such as hunter's safety, concealed carry and fun safety and handling classes.

The building will also house a pro shop that will carry hand-guns, rifles, shotguns, ammo and accessories as well as hearing and eye protection and clothing lines.

In the future they hope to add a separate building for 100-yard shooting lanes, possibly a 3D archery facility and a snack bar. Competition shoots and league shooting are also planned.

While the current climate in the country sometimes leans anti-gun, the Bighams believe that education is key and want to be sure that people who do choose to own and carry firearms for protection are well-versed in the safe and responsible use of them.

Shelly set up a booth at last year's Salina Farm and Ranch Expo and plans to exhibit at shows in communities around Salina to promote the range. While

those in the agriculture community typically have all the land they need for shooting firearms, she believes the education the facility will provide will be of great benefit to those just learning to shoot.

To generate immediate capital for the project, they are pre-selling lifetime memberships from now until the doors open, at which point they will no longer be available. "It's a win-win situation for everybody," Shelly pointed out. "A lifetime membership will pay for itself in five or six years." They will also offer monthly single or family memberships and offer senior and military discounts, but she added that you don't have to be a member to use the facility.

Lifetime Elite memberships are \$4000 for a single or \$5000 for a family. Regular lifetime memberships are \$2500 for a single and \$3500 for a family.

Until the end of November they are running a Black Friday special for \$1000 off a Lifetime Elite or \$500 off a regular lifetime membership. More information can be found on their Center Fire Range Facebook page or their website www.centerfirerange.com or by calling 785-643-9651 or 785-643-9652.

The Bighams want Centerfire Range and Training Center to be very family-oriented and to provide training for a wide range of people. Customer service will be a priority for them. "We find that customer service is kind of a lost art," Shelly stated. "But we're all about customer service. We want our members to feel that this is their range."

Anderson celebrates real estate career



By Donna Sullivan, Editor

Forty-three years in business — a somewhat unusual number to observe, but Dolly Anderson of G&A Realty believes every milestone is worthy of celebrating. So she did. She recently held a reception and invited her friends and clients to help her mark over four decades in a business she had originally hoped would just get her two kids raised and through college.

She was a young, divorced mother of two in 1967 when she moved to Kansas to live with her mom while she got back on her feet. Without a college degree, her prospects were only minimum wage jobs, which she knew would not support her family.

"I was young and naive and thought, 'I'll just go into real estate where I can work hard and make money.'" Dolly recalled. At that time she was only the seventh female realtor in Manhattan among a sea of men, whose population dominated the industry.

"I worked hard and put in the hours and the days," she said. "And it's been wonderful."

She met and married her husband Dusty, a rancher, which helped open the door for her to work with those in the agriculture community. Dusty died in May 2008.

In 1974 she and a business partner opened G&A Real Estate. Dolly bought out her partner in 1980 and has been the sole owner ever since. According to Dolly G&A Real Estate is the oldest real estate company in Manhattan operating with the original name and owners.

She treasures the people she has met over the years. "With the University and the military, we have the most wonderful cross-section of people," she said. "I've met some of the most wonderful people that I never would have met except for real estate."

No doubt that times have changed, with all the lengthy contracts, inspections and legal requirements. "What was so neat when I first started was, your word was your bond," she reflected. "Our contracts were two pages long and we never had a problem."

Looking ahead, Dolly has no plans to retire. "I don't have an exit plan," she laughed. "Because I never thought I'd be in it this long."

Once her kids were grown and gone, her passion for showing her horses continued to motivate her to continue in the business. "My inspiration is to make enough money to go to the next horse show," she admitted. Horses have always played an important role in Dolly's life, even to the point of bringing one to college with her the one year she attended Kansas State University. She started showing horses in the 1970s and as she got more wins under her belt, began showing nationally. She's won in all the big shows she's wanted to compete in. For eight years she showed a mare that her mother and stepfather had raised which Dusty gave her as a gift and up until last year, she and her daughter were showing the third generation of horses that her mother and stepfather had raised.

With success in real state and wins in the horse show arena, Dolly appreciates all the good people along the way that have made both possible. "A lot of my success is from the people that have been with me all these years," she said. "I'm very thankful for all the people that have been associated with G&A Real Estate."

As she visited with the 125 or so people that came to her reception, she relished the time with old friends and clients who became friends. It's those connections that keep her coming to the office each day, with no immediate plans to leave the business.

"I'm going to keep going as long as I can," she said. "It's a wonderful business and I love the people I get to meet and work with."

Insight

KANSAS FARM BUREAU
The Voice of Agriculture

Citizen investment drives rural Kansas

Without question the most important resource in Phillipsburg, Dodge City, Pittsburg, Salina, or any community in Kansas, is human resources. If you look up the definition of human resources, you will find it as: "the individuals who make up the community and their learned skills that create the ability to lead teams of people, manage systems and pro-

duce goods and services." Rural communities thrive and prosper when farmers, ranchers and small community businesses work together for the common good. The single greatest roadblock for success and growth in any community is lack of organized leadership with vision. Fortunately, Kansans have been an active bunch. Citizens of this

state always believed they can get the job done. Kansans continue to build on a long and proud heritage and self-responsibility by investing in new businesses, communities and those they employ. Kansas communities believe they can continue to be part of a livable frontier – a state of mind where there is always room to grow and prosper. Farmers, ranchers and businesses in this state all have similar goals and philosophies. They have always believed there is too much government intrusion into their lives and businesses. For years, they have worked hard to reverse this trend and control their destiny. Some people still have

the mistaken belief that government can control the economy and provide a better life for its citizens. That is unrealistic. Both for theoretical and practical reasons, governments are unable to control the economy and create jobs. Kansans know this. Our communities have never stood idly by and waited for government to take care of them. Instead they have formed alliances to tackle community issues, foster business development and ensure an environment where they will continue to grow. It is not enough for Kansas communities to have and follow a strategic plan for economic development. Rural com-

munities do not forget they need institutions that bring farmers into the communities on a regular basis. This means restaurants and other gathering places where rural and townfolk can gather. This means a place where they can talk about mutual issues and interests – children, the high school basketball team, the remodeled community center – just about anything that relates to the welfare and wellbeing of the area. Grocery stores, a church – with committed leaders willing to live and become a part of the community – active participation in the school system and involvement in farm and community organiza-

tions are all ways to rekindle interest. Strong communities survive and prosper when farmers retire in their towns, or become actively involved in local and regional affairs. Farmers, ranchers and businesses remain the key to growth and vitality in any rural area. Working together, both rural and urban, with progressive community leadership, we can improve our standard of living and our quality of life in Kansas. *John Schlageck is a leading commentator on agriculture and rural Kansas. Born and raised on a diversified farm in northwestern Kansas, his writing reflects a lifetime of experience, knowledge and passion.*

Moran sends open letter to farmer and rancher organizations regarding Trump administration threat of NAFTA withdrawal

U.S. Sen. Jerry Moran (R-Kan.) authored an open letter – first published in *Agri-Pulse* – to agricultural organizations regarding the threat of NAFTA withdrawal and urged them to advocate for sound trade policy. With low commodity prices and declining farm revenues, the rural economy cannot afford to lose out on export markets.

its focus to be diverted from the equally important issue of agricultural trade. Reforming our nation's tax code is critical to growing the economy and can benefit all Americans. However, there will be little to no benefit of tax reform to farmers and ranchers if their ability to sell what they produce around the world is diminished. Coming from Kansas, the economic case for pro-agricultural trade policies is clear: my state exported more than \$4.5 billion worth of agricultural products in 2016, generating more than \$5.7 billion in economic activity and supporting more than 36,000 jobs. According to the United States Department of Agriculture (USDA), more than 20 percent of total U.S. agricultural products are exported. In Kansas, approximately 40 to 45 percent of planted acres any given year will utilize export markets.

behind these numbers who often get lost in the conversation: farmers and ranchers who hope to see the family operation stay in the hands of their kids and grandkids; teenagers and college students who want to return to the farm or ranch. The ability of a new generation of young producers to make a living in agriculture is impacted far more by the wheat, corn, cotton, and beef being exported each year than by any single tax deduction. And tax rates are irrelevant to the farmer or rancher who loses half of their income due to lost export markets.

But I am convinced our country is headed down a path toward withdrawal from NAFTA unless action is taken by agricultural groups to change the administration's course. This letter is not intended as criticism of farm and ranch organizations. In conversations with agricultural groups and individual producers, I am impressed with the knowledge and conviction exhibited in defense of agricultural trade. I have heard the deep concern for the economic harm that will be done to rural America if key export markets, such as Mexico and Canada, are

closed or restricted to agricultural producers. I write this letter to encourage all of us to do more. To urge agricultural and commodity groups to raise their concerns with the President and his administration through op-eds, letters, social media campaigns, and other venues about the importance of trade. The voices of lawmakers raising alarm will only go so far – the real power to change the conversation lies with the American people.

tion away from simultaneously protecting the ability of farmers and ranchers to continue to export food and fiber across the globe. The news that the Trans-Pacific Partnership will move forward without U.S. involvement heightens the consequences of NAFTA withdrawal. With the leadership of agricultural organizations, we can help rally farmers and ranchers to speak up about the importance of trade to the future of a livelihood in agriculture. Tough negotiations on improvements – yes; withdrawal from NAFTA – no.

The timing of Moran's call to action coincides with a letter 168 agriculture groups sent today to all 50 governors regarding the "importance of NAFTA to the U.S. food and agriculture industry and to express concern about the potential of a withdrawal from this critical trade agreement."

There are real Kansans

President Trump has been consistent in his criticism of trade deals, especially NAFTA, and every indication coming from the administration points toward outright withdrawal from the agreement. Terminating a major trade deal would be unprecedented, which may make the threat hard for some to take seriously.

USDA Secretary Sonny Perdue is working with the Trump administration and Congress on a plan to protect farmers and ranchers from negative market effects should the U.S. withdraw from NAFTA, Politico reports.

"We're talking with the administration and Congress about some mitigation efforts if that were to occur; about how we could protect our producers with a safety net based on

prices that may respond negatively to any kind of NAFTA withdrawal," Perdue told reporters. Pulling out of NAFTA could have "some tragic consequences" for U.S. producers, Perdue noted, but farmers can adapt to changes in the market. He also said he does not think a contingency plan will have to be put into action because he believes NAFTA 2.0 will be "successfully" renegotiated.

The text of the letter follows. **An Open Letter to U.S. Farmer and Rancher Organizations:** While tax reform dominates the discussion in Washington, D.C., U.S. agriculture must not allow

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This week is Thanksgiving. On the American Thanksgiving is when we Americans gather together on a Thursday in November, eat turkey, watch football and start the Christmas season. Somehow this time to stop and give thanks for all we have been given has devolved into gluttony, commercialism and a day off. At least most of us have not given up on it being a day spent with our families, but I do fear we have gotten away from the true meaning of the day.

be one who produces the safest, most abundant food supplies in the world and I take this for granted. Who wants to eat leftovers when we can get in our car, drive a short distance and have someone else prepare our meal or even have them deliver that meal to us? We take our food supply, safety and choices for granted. Most in this world are simply happy to have a meal, let alone three, and they would never even dream of choices. We are without a doubt blessed to be well-nourished,

It is meant as a symbol and a day to be thankful for being a citizen of the greatest nation on earth, a place where most of us have more than the average citizen of almost every other nation could dream of. It is a day when we should be remembering the Pilgrims who started this whole ball rolling by simply celebrating their very survival.

Did you wake up feeling safe this morning? Are you worried about your family's safety? Most of us don't even give it a second thought. We know our homes and persons are protected by the local law enforcement and our freedom is guarded by our armed forces. That is a privilege, a basic necessity that we take for granted that many are not afforded around the globe. Did you voice your opinion today, go to church this week or vote earlier this month? These things we assume as part of our birthright and never take a moment to be thankful for.

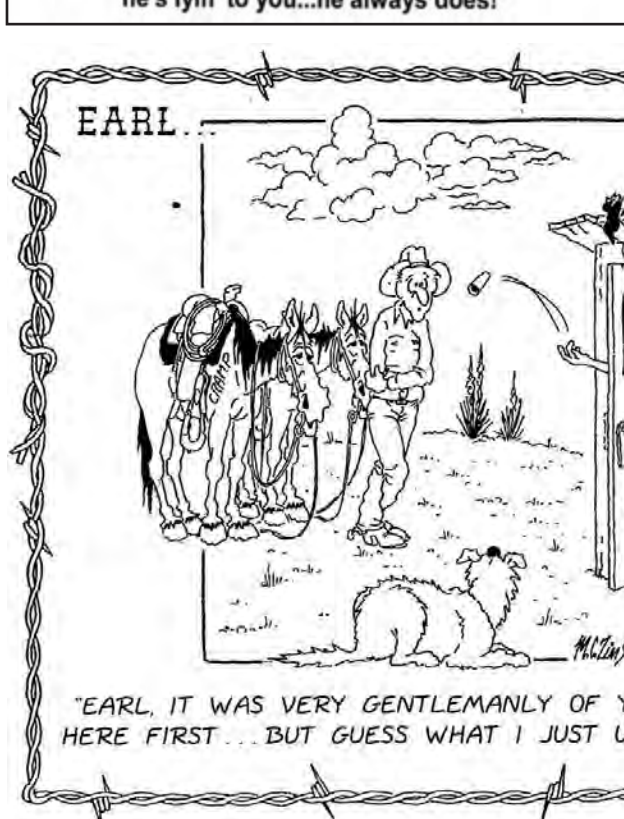
Think about what most of us have in a global context. I would guess that everyone reading this has a roof over their head and shelter. Many do not have that very common necessity. They might not have shelter because of a natural disaster or simply because they are too poor to have even the most basic of things we all require. Factor in that most of us live in houses that are luxurious based on the standards of the rest of the world and we have a great deal to be thankful about.

Did you drive your car today? How many do you have? Watch television, play on the computer? Is there a boat in your shed? We Americans have so much stuff because the necessities of life, shelter, food, water and safety are so easily and cheaply taken care of. We spend very little of our incomes on things we must have and a great deal on things we want. We should be thankful that we have so much and live in a land of great abundance.

While you are being thankful, walk over to the sink and pour a glass of water. The faucet came on when you wanted it to and clean, safe water came out. That is a blessing that many in this world can only dream about. Imagine depending on a poor well, or worse yet, a dirty, polluted river for all your drinking water. Imagine carrying that water a great distance back to your house. To have clean, safe water at any moment, without thought, is something we should be thankful for.

Do I mean to make you feel guilty for all you have? No, not really, although maybe we should feel a twinge of something. Rather I want you to take stock in all that you have and all the blessings in your life. I don't want any of us to sleepwalk through this day. It is easy to do with all the distractions. I simply want each of us to take a moment and reflect on all we have been given and how fortunate each of us are, no matter our situation or station in life. If you are a citizen of the United States, reading this column, you probably have a great amount to be thankful for. I know I certainly do.

Walk to your refrigerator and look in, check out your pantry and open your freezer. I bet it's full of food, even if this is grocery shopping day. Each day, one of our biggest dilemmas is what to have for supper. We have choices and, more astonishingly, leftovers. I would guess each of us waste more food than many in this world consume. Without a doubt we take food for granted. I am proud to



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Trump administration appoints David Schemm to serve as state executive director for USDA's Farm Service Agency in Kansas

The Trump administration recently appointed David Schemm as the new State Executive Director (SED) for the USDA Kansas Farm Service Agency (FSA). Schemm joined the Kansas FSA team on Monday, November 13.

Schemm has been active in leadership roles from community, state and national levels. He served as both a school board member and president, as well as a member of the Extension board. Additionally, he served as president of the Kansas Association of Wheat Growers and president of the National Association of Wheat Growers. He has been an advocate for farmers for a number of years on the Field to Market Board, Ag Data Coalition Board, Heartland Plant Innovations, Ag Rail Business Council, and various other agricultural organizations. He is a third-generation Kansas

farmer, who farms with his wife, son and son's fiancée in Sharon Springs. The Farm Service Agency serves farmers, ranchers and agricultural partners through the delivery of effective, efficient agricultural programs. The agency offers farmers a strong safety net through the administration of farm commodity and disaster programs. FSA continues to conserve natural resources and also

provides credit to agricultural producers who are unable to receive private, commercial credit, including special emphasis on beginning, underserved and women farmers and ranchers. The agency also purchases and delivers commodities for use in international humanitarian food programs.

Under the direction of Secretary Sonny Perdue, the USDA will always be facts-based and data-driven, with a decision-making mindset that is customer-focused. Perdue leads the USDA with four guiding principles: to maximize the ability of American agriculture to create jobs, sell foods and fiber, and feed and clothe the world; to prioritize customer service for the taxpayers; to ensure that our food supply is safe and secure; and to maintain good stewardship of the natural resources that provide us with our

miraculous bounty. And understanding that we live in a global economy where trade is of top importance, Perdue has pledged to be an unapologetic advocate for American agriculture.

As SED, Schemm will use his leadership experience to oversee FSA programs in a customer-focused manner to ensure a safe, affordable, abundant and nutritious food supply for consumers.

and Senate ag leadership to maintain vital flexibility on this point.

Both bills would eliminate the section 199 Domestic Production Activities Deduction used by many farmers and farm co-ops and would eliminate like-kind exchanges for personal property like agriculture equipment. Unlike the House bill, the Senate bill would eliminate the IC-DISC provisions of the tax code that provide incentives for export of agricultural products.

"We encourage the House and the Senate to work together to ensure that any final tax reform legislation does not negatively impact agriculture. Given the tight margins in agriculture and high volatility of ag markets, Congress needs to continue to focus on preserving financial flexibility for ag businesses," added Wald.

Senate tax bill differs from House bill on key issues for agriculture

K-Coe Isom, the nation's leading agricultural accounting and business advisory firm, recently discussed the House and Senate tax bills and outlined how the bills differ in key respects on some critical issues for agriculture.

"Overall, both bills contain many provisions that are positive for agriculture," said Jeff Wald, CEO of K-Coe Isom. "They both move in the right direction on the estate tax, eliminate the Alternative Minimum Tax, and allow for immediate expensing of capital purchases for the next five to six years. These elements of the bills would be beneficial to farmers and ranchers."

Earlier versions of the House bill would have required farmers to pay self-employment taxes on rental income. After K-Coe Isom and others met with House Agriculture Committee chairman Michael Conaway to

express concerns that this would negatively impact farmers, this provision was removed from the House legislation. The Senate bill would not require payment of self-employment taxes on rental income.

While the two bills share provisions that would benefit agriculture, the bills do differ on some critical issues.

On business interest deductions, Wald worries that the Senate bill could constrain certain ag businesses that are heavily reliant on credit financing.

"The House bill would limit interest deductions for businesses with more than \$25 million in gross receipts," said Wald, "which could impact larger agricultural businesses. The Senate bill would use a \$15 million gross receipts test. It would sweep in many medium-sized operations and limit their ability to deduct interest expenses. We are optimistic that we can work with House

Cautious optimism for next three years in grains, ethanol market

Rising incomes worldwide will underpin global demand and create opportunities for U.S. exports in grains, oilseeds and ethanol according to a new report from CoBank's Knowledge Exchange Division. Meanwhile, global commodity surpluses, trade agreement renegotiations, and relative strength of key currencies will set the scope of growth over the next three years.

"In the absence of major weather disruptions, global grain surpluses are expected to persist over the next three years. Acreage expansions and improvements to yields in competing export hubs will be headwinds for US exports," said Tanner Ehmke, manager of CoBank's Knowledge Exchange Division. "The bright spot will be the continual growth in demand. As the global middle class grows, so will the opportunities for U.S. exports."

Overall, U.S. grains, oilseeds and ethanol will face mounting competition in export markets, but

there are specific considerations for each commodity.

Corn

In the short term, demand for corn will continue on a solid growth path. However, the trajectory is expected to slow over the medium term as livestock and broiler growth slows. The ethanol sector will also struggle to grow demand substantively due to changing market dynamics in Brazil, and remaining challenges related to higher blend levels in the U.S. In the export market, corn will face significant competition from South America and Eastern Europe, specifically Brazil, Argentina and Ukraine.

"The combination of anemic demand growth domestically and rising export competition abroad is expected to result in only minor improvements in the years ahead," said Ehmke. "Free trade agreements are needed to increase our competitiveness abroad."

Wheat

The long-term trends

of low prices, declining acreage and rising export competition point to more challenges for US wheat.

"Russia's dominance in the world wheat market creates an uphill battle for US wheat farmers, many of whom are reducing or eliminating wheat in their rotations in search of more profitable crops," said Ehmke.

Soybeans

The U.S. is still the world's largest producer of soybeans, but has handed the mantle of largest exporter to Brazil. This trend is expected to continue as the value of the real remains low compared to the U.S. dollar, and nagging infrastructure challenges in Brazil are improving.

"Global demand growth for livestock feed and biodiesel production will support U.S. soybeans," said Ehmke. "But Brazil is looking to further its lead in exports and will continue to expand soybean plantings."

Ethanol

Brazil and China are determined to reduce

their dependence on US ethanol. Expansion of US demand also faces challenges as higher blend levels will be slow to gain acceptance.

"The U.S. could lose Brazil as an export market, and will also be competing globally with Brazil moving forward," said Ehmke. "The US will shift focus to emerging markets like Mexico, Thailand, India and Indonesia in the medium term. However, the newly developed markets are unlikely to fully offset losses in China and Brazil, resulting in weaker crush margins."

Farm Supply

Commodity price stagnation and overcapacity in fertilizer production point to a weak fertilizer market over the short to medium term. Crop protection and seed sales are also expected to struggle due

to low commodity prices and rising farm debt levels. Seed and chemical prices, though, are expected to rise, stemming from mergers and acquisitions throughout the world and increased environmental regulatory burdens on chemical companies in

China.

A brief video synopsis of the report, "2018-2020: Pressure on Grain and Farm Supply Sectors to Persist" is available on the CoBank YouTube channel. The full report is available to media on request.




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1 cup chicken broth
4 cups cubed cooked turkey
(2) 10 3/4-ounce cans condensed cream of chicken soup, undiluted
1 teaspoon garlic powder
3/4 cup sour cream, divided
4 ounces cream cheese, softened
1/2 teaspoon pepper
1/4 teaspoon salt
1 1/2 cups (6 ounces) shredded Cheddar cheese
Place the potatoes in Dutch oven and cover with water; bring to a boil. Reduce heat, cover and cook 15 to 20 minutes or until tender. Meanwhile in a large skillet saute the celery and onions in butter until tender. Remove from heat. In a large bowl combine the stuffing cubes, poultry seasoning and sage. Stir in broth and celery mixture. Transfer to a greased 9-by-13-inch baking dish. In another large bowl combine the turkey, soup, garlic powder and 1/4 cup sour cream. Spoon over stuffing mixture. Drain potatoes and mash. Beat in the cream cheese, pepper and salt and remaining sour cream. Spread over turkey mixture. Sprinkle with cheese. Bake uncovered at 350 degrees for 30 to 35 minutes or until heated through.

Kellee George, Lawrence:
PUMPKIN BISCUITS
2 1/4 cups whole wheat flour
2 tablespoons brown sugar
1 tablespoon baking powder
1 teaspoon salt
1/2 cup butter, cubed
1 cup canned pumpkin
3/4 cup buttermilk
1 tablespoon butter, melted
Preheat oven to 450 degrees. In a large bowl whisk flour, brown sugar, baking powder and salt. Using a pastry blender cut in butter until mixture resembles coarse crumbs with some pea-size pieces. In a small bowl mix pumpkin and buttermilk.

Stir into dry ingredients just until a soft dough forms. Turn onto a floured work surface, pat into a 1-inch thick round. Using a 2-inch round cutter cut out biscuits. Repeat with scraps. Arrange on an ungreased baking sheet. Brush with melted butter. Bake 12-15 minutes or until golden brown. Serve warm or at room temperature with honey and butter.

Marcile Shippy, Woodbine:

DATE PUDDING
1 1/2 cups flour
2 teaspoons baking powder
1 1/2 cups sugar
1 1/2 cups finely chopped dates
1/2 cup nuts (can be optional)
1 cup milk
1 1/2 teaspoons vanilla
2 cups boiling water
2 cups brown sugar (not packed)
Preheat oven to 350 degrees. Sift flour, sugar and baking powder together. Stir in dates and nuts until coated. Add milk and vanilla. Mix until blended; pour into a 9-by-12-inch pan (spray coated). Mix boiling water and brown sugar over heat for two minutes until well-dissolved. Pour syrup over

pudding mixture. Bake at 350 degrees for 40-45 minutes or until cake comes up through syrup and turns golden brown. Serve plain or even better with whipped cream or ice cream.

Millie Conger, Tecumseh:

CRANBERRY MACADAMIA BARK
1 pound white candy coating, chopped
3-ounce jar macadamia nuts
1/2 cup dried cranberries
Line a baking sheet with parchment paper. Melt coating in microwave until smooth. Stir well. Stir in nuts and cranberries. Spread into pan. Refrigerate until firm. Break in pieces.

Sharon Vesecky, Baldwin City: "The recipe last week for oatmeal pancakes interested me, so I made them gluten-free. I forgot to check the baking mix for sugar content until the pancakes were done, so the sugar was omitted. They were fine without it."

GLUTEN-FREE OATMEAL PANCAKES
1/3 cup oatmeal (use name brand to reduce chance of contamina-

tion with other grains)
2/3 cup gluten-free baking/pancake mix (I use Pamela's)
1 tablespoon oil
1 egg
3/4 cup milk (add more if mixture thickens up as it stands)

Mix together ingredients and fry.

Lucille Wohler, Clay Center:

EASY CRANBERRY SALAD
1 large box strawberry gelatin
1 can crushed pineapple
3-ounce package cream cheese
1 can cranberry sauce
Mix gelatin, pineapple, cream cheese and cranberry sauce. Mix thoroughly and cool overnight.

Lydia Miller, Westphalia:

BANANA SPLIT DESSERT
2 cups graham cracker crumbs
1 stick melted oleo
2 eggs
2 cups powdered sugar
2 sticks oleo
20-ounce can crushed pineapple
5-6 bananas
Chopped walnuts
Maraschino cherries
Large tub of Cool Whip
Mix crumbs and 1 stick melted oleo and

press into 9-by-13-inch cake pan. Beat eggs, powdered sugar and 2 sticks oleo with electric mixer for 15 minutes. Spread over crumbs. Drain pineapple and spread over egg mixture. Slice bananas and place over pineapple. Spread Cool Whip over all. Sprinkle walnuts and cherries over top. Chill overnight or longer.

Rose Edwards, Stillwater, Oklahoma:

PEANUT BUTTER BARK
1 pound white candy coating, coarsely chopped
1/2 cup chunky peanut butter
1/2 cup semisweet chocolate chips
1/2 teaspoon shortening
Line jelly roll pan with parchment or waxed paper. In microwave, melt candy coating and peanut butter; stir until smooth. Spread into pan. In microwave melt chocolate chips and shortening, stirring to blend. Drizzle over top then cut through mixtures with a knife to swirl. Refrigerate until firm. Break into pieces.

Roast Turkey with Arugula-Pesto Rub

12-pound turkey
1/2 cup packed fresh arugula leaves
2 tablespoons snipped fresh basil
1-2 tablespoons grated Romano cheese or Parmesan cheese
1 tablespoon finely chopped toasted walnuts
1 tablespoon olive oil
1 clove garlic
1/2 teaspoon salt
1/4 teaspoon black pepper
Preheat oven to 325 degrees. Remove neck and giblets from turkey; discard.

Rinse body cavity of turkey; pat dry with paper towels.
To prepare rub, in a blender or food processor combine arugula, basil, cheese, walnuts, olive oil, garlic, salt, and pepper. Cover and blend or process with several on/off turns until a paste forms, stopping several times to scrape the side of the blender or food processor.
To apply rub, slip your fingers between the skin and meat on the breast of the turkey to loosen skin.

Lift skin and spread the rub under the skin from front to back of the turkey. If desired, rub any remaining mixture on the outside skin of the turkey or rub with vegetable oil. Skewer neck skin to back. Tie drumsticks together or to the tail with clean 100-percent-cotton kitchen string. Twist wing tips under back. Place turkey, breast side up, on a rack in a shallow roasting pan.

Insert an oven-going meat thermometer into the center of an inside thigh muscle. Thermometer should not touch bone. Cover turkey loosely with foil. Roast turkey for 2 1/2 hours. Remove foil; cut band of skin or kitchen

string between drumsticks so thighs cook evenly. Continue roasting for 30 to 75 minutes more or until the meat thermometer registers 180 degrees and turkey is no longer pink (the juices should run clear and drumsticks should move easily in their sockets). Remove turkey from oven. Cover with foil; let stand for 15 to 20 minutes before carving. Transfer turkey to a cutting board. Carve turkey. Makes: 30 servings.

Nutrition Facts (Roast Turkey with Arugula-Pesto Rub): per serving (serving size 4 ounces each): 186 kcal, 6 g fat (2 g sat. fat, 2 g polyunsaturated fat), 110 mg chol., 100 mg sodium, 0 g carb., 0 g fiber, 0 g sugar, 31 g pro. from <http://www.bhg.com/recipe/roast-turkey-with-arugula-pesto-rub/>

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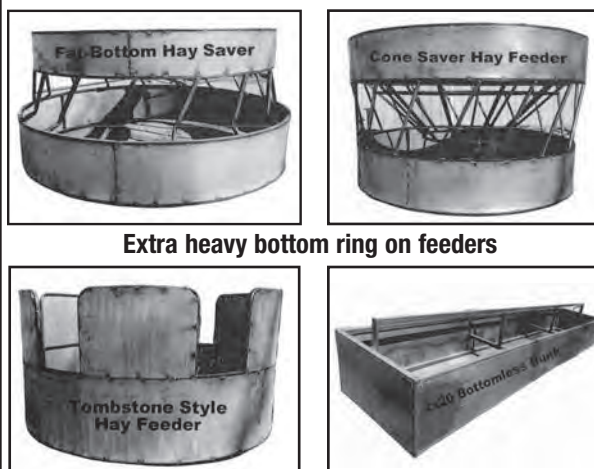
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Cook and freeze now to avoid holiday stress

BUTLER, Mo. – One way to reduce holiday stress is to prepare some of the food ahead of time and freeze it. From casseroles to cookies, you can have a large portion of your holiday food ready before the actual day arrives.

“But some things freeze better than others,” said Tammy Roberts, University of Missouri Extension nutrition and health education specialist. “Things that may not have the quality you would be proud to serve include meringue, cream or custard pie fillings, mayonnaise, sour cream, and vegetables such as lettuce, cucumbers, radishes and celery,” Roberts said.

Uncooked potatoes and cooked pasta don't often freeze well on their own, but you can get great results with these foods in a casserole, she added. You can store casseroles

in the freezer up to three months. Roberts offered the following tips for quality home-frozen foods: Foods that will be reheated should be slightly undercooked before freezing. This helps avoid overcooking the end product. Cool foods quickly before freezing by putting them in the refrigerator or setting the prepared casserole in a pan of ice water. A hot glass baking dish can crack or break when placed in ice water, so use caution. Wrap your food well. Air shortens shelf life and can affect color, flavor and texture, Roberts says.

Cheese or crumb toppings on casseroles can become soggy or dry in the freezing process. Add these when reheating the dish. It can be hard to find information about how

long it takes to reheat a frozen dish such as a casserole. Roberts says to use the oven setting at which the dish was originally cooked, and to start with just less than twice the original cooking time. For example, if the original cooking time was 30 minutes, start with about 50 minutes, but be sure to check often at the end of that time. A good clue that a casserole is thoroughly reheated is that the edges are bubbling and the center is hot.

The MU Extension guide “Quality for Keeps: Freezing Home-Prepared Foods” is available for free download at extension.missouri.edu/pdf/GH1505.

For more food and nutrition information from MU Extension, including feature articles, answers to frequently asked questions and learning opportunities, go to missouri-families.org/nutrition.

1/4 cup brown sugar
1/8 cup sugar
1/8 teaspoon salt
1/4 teaspoon cinnamon
4 tablespoons butter, chilled



Preheat oven to 400 degrees. Wash your apples.



In a large bowl, make the streusel topping by combining the flour, oats, brown sugar, sugar, salt, and cinnamon. Mix together and cut in butter until coarsely crumbled.



Take 4 of your apples and slice the tops off. Clean out the flesh from the inside with a grapefruit spoon and knife, set aside.



Chop the remaining 4 apples into small pieces and add to a skillet with the butter, brown sugar, and

cinnamon. Simmer until the apples are soft enough to easily bite through, yet not mushy, and the butter and sugar have become a “caramel-like” sauce. About 10 minutes.



Scoop the apple filling into the hollowed-out apples and top with the homemade streusel.

Bake for 10 - 15 minutes or until golden brown and bubbly. Serve with a dollop of whipped topping or a little warm cream. Enjoy!



Ashleigh is a freelance writer and blogger for her website, *Prairie Gal Cookin'* (www.prairiegal-cookin.com). She shares everything from step-by-step recipes to local history, stories, and photography from out on the farm in Kansas. Follow PGC online or like it on Facebook for more recipes and ramblings!



By Ashleigh Hett

BAKED APPLE-CRISP STUFFED APPLES

With the cool weather and the apples being perfectly sweet after a freeze or two, I decided it was time to bake some wonderfully, caramelly, apple goodness. After doing a little sleuthing around on Pinterest to get my creative juices flowing, I stumbled across some ideas with stuffed apples. And here we are!

So, the trick to making these is to clear out most of the flesh in 4 of the apples, make your own homemade caramel apple filling (I don't actually use any caramel, but if cooked right, the apple mixture will have some sticky caramel-like sauce with it), and then topping the stuffed apples with a homemade streusel topping.

I promise you. One bite of the topping and you won't be able to quit. Don't even try it. It's perfect, I'm sure... Aw, heck! Go ahead and make a little extra - You'll want it while you're waiting for the apples to bake!

- You'll need:
Apples:
8 apples
4 tablespoons butter
1/3 cup brown sugar
1/2 teaspoon cinnamon
Streusel Topping:
1/4 cup flour
1/8 cup oats (I used old-fashioned)

Beef It's What's For Dinner

Braised Short Ribs with Red Wine Sauce

- 2 lbs. beef short ribs, boneless
1 teaspoon vegetable oil
Salt & pepper
1 can (10 1/2 ounces) beef broth or beef consommé
1 cup dry red wine
2 small onions, quartered
4 cloves garlic, minced
3 fresh thyme sprigs
1 1/2 cups sliced mushrooms
2 tablespoons butter
1/4 cup chopped shallots
1 teaspoon minced fresh thyme
2 teaspoons cornstarch dissolved in 1/2 cup dry red wine

Heat oil in large stockpot over medium heat until hot. Brown beef short ribs on all sides. Season with salt and pepper as desired. Add broth, 1 cup wine, onions, garlic and thyme to stockpot; bring to a boil. Reduce heat; cover tightly and simmer 1 3/4 to 2 1/2 hours or until beef is fork-tender. Remove short ribs from stockpot; keep warm. Strain vegetables and skim fat from cooking liquid. Reserve 3/4

cup cooking liquid for sauce; discard remaining cooking liquid. Melt 1 tablespoon butter in large nonstick skillet over medium heat. Add mushrooms, shallots and minced thyme; cook and stir 5 minutes or until mushrooms are tender. Add reserved cooking liquid and cornstarch mixture to skillet. Bring to a boil. Reduce heat and simmer 5 minutes; stirring often. Remove skillet from heat; stir in remaining 1 tablespoon butter. Serve sauce over short ribs.

Cook's Tip: To cook in a slow cooker, add beef, salt and pepper, as desired, broth, 1 cup wine, onions, garlic and thyme to 4 1/2 to 5 1/2 quart slow cooker. Stir to combine. Cook on HIGH 4 to 6 hours, or LOW 8 to 10 hours, or until beef is fork tender. When the beef is done, continue instructions for sauce preparations beginning in step 2.

Test Kitchen Tips: To cook in a slow cooker, add beef, salt and pepper, as desired, broth, 1 cup wine, onions, garlic and

thyme to 4 1/2-5 1/2 quart slow cooker. Stir to combine. Cook on high 4-6 hours, or LOW 8-10 hours, or until beef is fork tender. When the beef is done, continue instructions for sauce preparations beginning in step 2.

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Our view: anti-farmer legislation rings hollow

It's been a busy couple of weeks for the anti-farm crowd in their quest to leave farmers with fewer tools to deal with depressed crop prices and weather disasters.

First up was a new proposal by Sens. Jeanne Shaheen (D-NH) and Pat Toomey (R-PA) to essentially write America's sugar farmers out of the next Farm Bill.

The "Sugar Policy Modernization Act" would prohibit sugar growers from receiving nonrecourse loans available to other crops — loans that are repaid with interest and are the main component of U.S. sugar policy. The bill would also mandate that the USDA keep America's sugar market flooded with imports to artificially depress prices for multinational food companies.

"A better name would be the 'Sugar Farmer Bankruptcy Bill' because that's exactly what it's designed to do," explained Galen Lee, a sugar beet farmer from Idaho.

It's a devastating bill

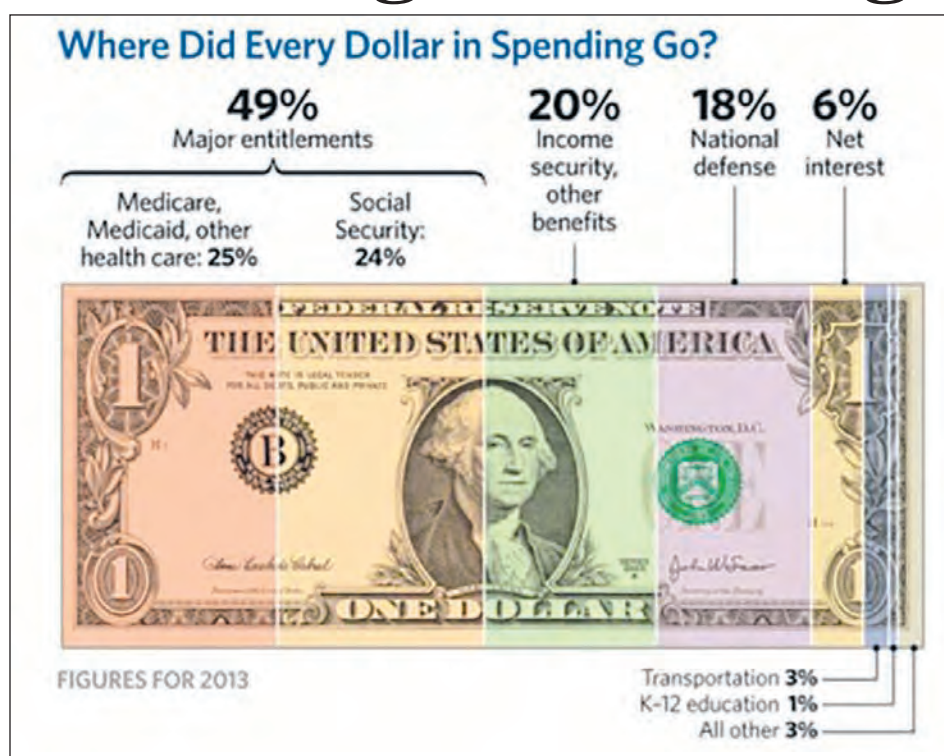
for rural communities from coast to coast all by itself, but Shaheen wasn't finished.

A day later, she teamed with Sen. Jeff Flake (R-AZ) to introduce legislation designed to deny farmers access to insurance policies that provide some revenue stability amid price declines and low yields.

These policies are vital to farmers who forward contract crops and to farmers forced to purchase feed for livestock following the loss of their own crops. And they are extremely popular, covering more than nine out of ten acres of U.S. corn and soybean in the crop insurance system. Revenue coverage is also used on 87% of wheat policies and 81% of cotton.

In other words, if you farm, chances are good the lawmakers took a swipe at your livelihood. And their rationale for doing so was to save taxpayers money, which is nonsense.

First, sugar policy has operated without taxpayer cost for the entire 2014



Farm Bill — well below Congressional Budget Office (CBO) estimates. Simply put, it has a \$0 price tag and has cost taxpayers less than expected.

Meanwhile, farmers help fund crop insurance with money from their own

pockets — and they have to pay a lot more for revenue coverage. Under this cost-share structure, crop insurance's ten-year cost projection by CBO is down nearly \$10 billion since 2013.

No, these bills are not

about taxpayers. The proposals are anti-farmer, plain and simple, and they embody the harmful rhetoric used by long-time agriculture critics like Heritage.

So, we thought it only fitting to use a Heri-

Kansas State University swine researchers find new benefits to feeding fatty acids

Kansas State University researchers say a recently completed study has strong implications for improving swine production in the United States.

The university had previously found that adding medium chain fatty acids

of fatty acids known for being easily absorbed by a human body, and many are considered necessary fats that humans need for living well.

Now K-State scientists have found that those same medium chain fatty acids also have a positive impact on the feed efficiency and growth of pigs.

"The impact of these findings should be substantial because now the

industry can use a single feed additive that can act to minimize the risk of virus transmission as well as improve animal performance," said Jason Woodworth, an associate professor in the department of animal sciences and industry.

Jordan Gebhardt, a doctoral student who conducted the 35-day trial at the K-State Segregated Early Weaning facility in Man-

hattan, found increases in average daily gain, feed intake and feed efficiency when feeding increasing levels of medium chain fatty acid blends to the pigs.

"These results are an important step in the process of developing and implementing this technology to benefit the swine industry," he said. "Previous research has indicated the value of MCFA at reducing the risk of disease transmission within swine feed and feed mills, and the current study confirms there is additional value by improving growth performance."

Woodworth noted that the results are "appealing considering the trial was conducted in our higher health status university research facilities. We assume this will translate into significant opportunities when utilized in commercial swine facilities as well."

In the study, researchers added synthetic grade fatty acids, which are not readily available to swine producers. Their next challenge is to duplicate these results using commercially available fatty acids.

"One of the key steps is developing a source of the compounds that can be produced in large volumes that consists of a favorable profile of specific fatty acids that is also cost effective," Gebhardt

tage-produced prop in this column.

If saving taxpayer money is the goal, this Heritage graphic shows exactly where all those federal dollars go.

And if you're having trouble finding agriculture listed, that's because it is not. Farm policy is a small fraction of the "All other 3%" category, with crop insurance accounting for about 0.3% of federal expenditures. Put another way, America protects the food and fiber supply on which every citizen depends for far less than a penny per tax dollar.

In a recent speech, Dr. Joe Outlaw, of Texas A&M University, referenced this very chart.

"My question for Heritage is why aren't they looking at these other areas of the budget," he asked, questioning why so much time and energy is being spent on a small line item like agriculture.

It's also a good question for all the senators behind this week's blindsides against rural America.

Woodworth added that K-State researchers are testing medium chain fatty acids against other viruses, bacteria and pathogens to identify the most effective and economical blends to use in feed.

"We need to collect more information to define how MCFA impacts growth performance of other phases of production in addition to nursery pigs," he said. "Ultimately all of this information will be used as the foundation for commercial feed and ingredient companies to provide options to the commercial swine industry that will have a high chance of successfully increasing producer profitability."

Medium chain fatty acids are also showing some promise in terms of an alternative to feeding antibiotics.

"It is also interesting to imagine the possibilities that MCFA may bring to the swine industry considering the momentum to reduce or eliminate feed grade antibiotics," Woodworth said. "MCFA could easily be one of the options that swine producers can use to improve performance in the absence of feed grade antibiotics."

In addition to swine production, Woodworth said the university is involved in helping to find opportunities for feeding medium chain fatty acids in other animal species.

These research findings will be presented during the 50th annual K-State Swine Day, which takes place on Thursday, Nov. 16, in Manhattan. For more information on this year's event, visit www.asi.k-state.edu/events/swine-day.

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Forshee honored with Kansas PRIDE Award

John Forshee, Director of the River Valley Extension District was awarded the Kansas PRIDE Partner Award at the recent K-State Research & Extension Annual Conference held in Manhattan for his work in Community Vitality and support of PRIDE Communities in the River Valley District.

The Wakefield PRIDE was once a vibrant organization but over the years had become inactive. A few community members contacted Forshee about how PRIDE worked and through a cooperative effort Wakefield PRIDE is once again a recognized and organized PRIDE Community that is working to make a Wakefield a vibrant community with a positive future.



Featured from left: Dr. John Floros, director of Extension, John Forshee, River Valley District director, and Jan Steen, co-coordinator of the Kansas PRIDE Program.

Community members in Belleville contacted Forshee and the Kansas PRIDE Program about planting trees for the upcoming 150th Anniversary of the town and the 100th

Anniversary of the NCK Free Fair. Resources from K-State Research and Extension and the Kansas Forest Service were brought to the table and that discussion quickly

blossomed into beautification ideas beyond tree planting. Together with NW Community Vitality Specialist, Nadine Sigle, the First Impressions program was conducted in Belleville and from there the need for a grassroots organization to head up the efforts was identified. Working with local leaders, Forshee assisted in the development of Belleville Community PRIDE, a group of young leaders taking the initiative to make Belleville a better place to live and work as well as celebrating the history and heritage of the community.

In addition to the PRIDE work, First Impressions is a major focus of Forshee's Community Vitality work. First Impres-

sions has been completed in Belleville and Clay Center and is in progress in Miltonvale. Three other River Valley District communities are in the planning processes for First Impressions. Forshee is also working with the Dane G. Hansen Strategic Doing process in both Republic County and Cloud County. The River Valley Extension District is a part of K-State Research and Extension and serves Clay, Cloud, Republic, and

Washington Counties in North Central Kansas. The Kansas PRIDE Program is a partnership of K-State Research and Extension, the Kansas Department of Commerce, Kansas Masons and Kansas PRIDE, Inc. Kansas PRIDE is dedicated to serving communities across the state to encourage and assist local government and volunteers in making their community a better place to live and work.



Catie Wharton, Syracuse, was presented the Future Angus Stockmen Scholarship, Nov. 6 during the American Angus Association's Awards Recognition Breakfast, held in conjunction with the 2017 Angus Convention in Fort Worth, Texas. Pictured, from left, are: Ginette Gottswiller, Association director of commercial programs; Catie Wharton, recipient; Scott Holt, Allflex North American marketing manager and sponsor representative; and Allen Moczygemba, American Angus Association CEO.

Photo by Eric Mull, American Angus Association

Farmers and ranchers of Kansas Farm Bureau to gather in Manhattan for 99th annual meeting

More than 800 Farm Bureau members from across Kansas will gather in Manhattan Dec. 3-5 for their organization's 99th annual meeting.

Held at the Manhattan Conference Center, the meeting will discuss public policy issues, craft Farm Bureau resolutions and workshops on water, farm bill, crop insurance and estate planning will be offered.

Speakers at this year's meeting include Kansas State University President Gen. Richard B. Myers and Mary Kay Thatcher, Senior Director of Congressional Affairs for American Farm Bureau Federation.

The meeting begins the evening of Sun., Dec. 3 with the annual banquet. Kansas Farm Bureau President Rich Felts will deliver his state of agriculture address followed by recognizing ten Kansas farm families for their service to Farm Bureau and their communities. Jerry McReynolds, Rooks County, will receive the Distinguished Service Award.

On Mon., Dec. 4, the

morning general session will include awards for KFB's Friends of Agriculture including Alan Boultinghouse, Crawford County; Marjorie Cartmill, Harper County; Mel Heddesten, Haskell County; Harold & Jeanne Mertz, Riley County (posthumously); Warren Parker, Riley County; and Mick Rausch, Sedgwick County.

Marvin and Twylia Sekavec from Ness County will receive the Kansas Farm Bureau Natural Resources Award. This award goes to the farm family who exemplifies good land stewardship.

The first round of workshops will begin at 9:45 a.m. and run through 10:45 a.m. Topics include water, using social media, emergency management and holiday cooking.

At 11 a.m., the second round of workshops begin and include crop insurance, a KFB Legal Foundation update, farm bill and transportation regulations.

The general session beginning at 1:30 p.m. on Dec. 4 will feature county Farm

Bureau awards for excellence, new horizon awards and progress awards. Graduates from class III of Leadership KFB will be recognized. They include Mindy Andres, Morris County; Alfred Crawshaw, Wilson County; Jessica Flory, Douglas County; Jacquelyne Leffler, Lyon County; Leigh Ann Maurath, Logan County; and Jackie Mundt, Pratt County.

After the conclusion of the general session, the third round of workshops will begin at 3 p.m. and include an update on the farm economy, ideas for membership growth for county Farm Bureaus, an overview of the NASS census and survey programs and agritourism.

The fourth and final workshop sessions will begin at 4:15 p.m. and include ways to tell the story of agriculture, an update on unmanned aircraft systems, a legislative update, ways to engage young leaders and farm transition.

On Monday evening, a fundraiser for Kansas Farm Bureau's Founda-

tion for Agriculture and Legal Foundation will be held at Kansas State University's Forum Hall. The event will feature dueling pianos. The event is open to the public. Tickets can be purchased at www.kfb.org/fundraiser.

On Tue., Dec. 5, more than 400 voting delegates will debate and adopt policy statements for 2018 and elect the KFB vice president and board members from the odd-number Farm Bureau districts.

For more information visit, www.kfb.org.



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THE WAY WEST

By Jim Gray

Killing Charles Dow

Wakarusa Creek is fed by several branches that drain the rolling landscape beginning about ten miles southwest of Topeka. The creek flows to the east for approximately eighty miles, passing just south of Lawrence before emptying into the Kansas River a mile east of the town of Eudora. With the opening of Kansas Territory to settlement, the Wakarusa valley, with good timber and flowing water, drew families early. The proximity to Lawrence initially drew Free State settlers; however, pro-slavery partisans from Missouri followed, taking claims as

well. Their opposing political views were so polarized that the two factions found no common ground. Both regarded the other side's presence as unlawful and illegitimate.

To the south of Wakarusa Creek, the Santa Fe Trail ran east and west along a narrow, high ridge overlooking the Wakarusa valley, known as "The Narrows." Hickory Point was within The Narrows, not distinctly an organized village, but more accurately an agricultural neighborhood of farmers and scattered shops serving the area.

Trouble appeared

when the Missouri settlers began to move in. In some cases abolitionist settlers staked their claims during the summer and fall of 1855, soon after the Territory of Kansas was opened for settlement. Feeling confident in the certainty of their land claim some of those early settlers returned east to make final preparations for their move to Kansas. In their absence, pro-slavery settlers, mostly from Missouri, took those claims, citing squatter law that allowed the confiscation of a seemingly abandoned claim. Much of the land had not been surveyed, leading to still more disputes over property lines. Conflict was inevitable, precipitating several violent incidents.

The recognized leader of the Free State abolitionists settling the Wakarusa was Jacob Branson. He chose a particularly beautiful tract of land at Hickory Point, "part heavy timber and the rest fertile prairie." Charles W. Dow lived with Branson while working at an unoccupied claim that Dow had selected for his future home. Dow soon learned that the boundary for his claim was in dispute.

Jacob Branson's counterpart, Franklin N. Coleman, represented the pro-slavery element. The Missouri man insisted that his property extended onto the claim that Dow was working. Coleman had been seen cutting timber on the Dow claim and had tried to intimidate Dow by visiting him while working the land. Dow didn't carry a weapon but stood his ground and induced Coleman to leave. There would be a reckoning.

That day came on November 21, 1855. Dow traveled to the east end of The Narrows to a blacksmith shop owned by William McKinney. On his way home Dow passed by Coleman's cabin. When Coleman and two friends, Harrison Buckley and a Mr. Hargous saw him they "had words." Dow walked away but Coleman wasn't done with him. This time Coleman would be the one to finish the argument. A blast from a double-barreled shotgun echoed through The Narrows and Dow fell. Realizing what he had done, Coleman fled for Missouri, leaving Dow's body sprawled across the Santa Fe Road. Several hours later Branson found his friend's body lying in

the road.

Two days later at the funeral, citizens realized that the proper authorities were doing nothing to investigate Dow's death. Jacob Branson insisted that not only Coleman, but Buckley and Hargous should be brought to justice.

Earlier that summer Free State settlers in the Wakarusa area had organized the Wakarusa Liberty Guards for defense of the frontier. The following day, November 24, 1855, the militia under the leadership of Captain Henry F. Saunders gathered at the scene of the murder. Their examination concluded that Coleman had followed Dow as he was leaving Coleman's property and shot the defenseless man down in cold blood. James Abbott recalled that the investigation lasted until nearly dark. Captain Saunders marched his company from Hickory Point into the Wakarusa valley, "and as each man came near his home, he left the ranks."

In the meantime, Dow's killer, Franklin Coleman returned to Kansas. At Shawnee Mission Coleman surrendered to Territorial Governor Wilson

Shannon. Shannon was described by a contemporary as "an extreme Southern man in politics, of the border ruffian type." Shannon turned Coleman over to Douglas County Sheriff Samuel Jones more for his personal protection than for prosecution.

On the way to the Territorial Capital at Leecompton the sheriff learned that the Lawrence abolitionists were demanding justice. He was told that Jacob Branson had threatened Coleman's life. Jones changed his destination and turned south toward The Narrows and Branson's cabin. There he easily took Branson prisoner.

The killing of Charles Dow was six years before the great American Civil War but in the intense atmosphere on the Wakarusa his death was one more step in the march toward war on The Way West.

"The Cowboy," Jim Gray is author of the book *Desperate Seed: Ellsworth, Kansas on the Violent Frontier*, Executive Director of the National Drovers Hall of Fame. Contact Kansas Cowboy, P.O. Box 62, Ellsworth, KS 67439. Phone 785-531-2058 or kansascowboy@kans.com.

Application cut-off Dec. 22nd for the Agricultural Conservation Easement Program in Kansas

The U.S. Department of Agriculture's (USDA's) Natural Resources Conservation Service (NRCS) is accepting applications for the Agricultural Conservation Easement Program (ACEP).

The goal of ACEP is to protect land devoted to food production and wildlife habitat from being converted to non-agricultural uses and to restore wetlands. ACEP is a volun-

tary program for landowners or tribal governments that allow them to leave a conservation heritage for their family and community.

Applications can be submitted at any time, but to be considered for 2018 funding opportunities, applications in Kansas must be received by December 22, 2017 for the first application and ranking date. Additional application

and ranking cutoff dates are February 9, 2018 and April 6, 2018. Applications are currently being accepted for both agricultural land and wetlands reserve easements.

There are two programs under ACEP, each with a different application process. It is very important that applicants contact their local NRCS office or conservation district office for specific information for your county to ensure the applicant receives guidance on the correct application process.

Landowners have several options to consider applying for ACEP. NRCS is partnering with Ducks Unlimited through the Regional Conservation Program Partnership (RCPP) to implement a Kansas Wetland Easements project under the umbrella of ACEP.

Targeted wetland complexes for this RCPP project include, but are not limited to, the play area region in western Kan-

sas, Cheyenne Bottoms, Quivira, Jamestown, and McPherson Valley Wetlands, Marais des Cygnes River Valley, and the Neosho River Valley. Additional high priority wetlands outside of these areas will also be considered.

Applications that are marked RCPP ACEP-WRE will be ranked separately from general sign-up ACEP-WRE using a ranking worksheet developed for RCPP ACEP-WRE. Special boxes for RCPP are to be marked if a landowner is wanting to make an ACEP application under the RCPP Kansas Wetland Easements project.

Kansas has approved a Wetland Reserve Easement Reservation of Grazing Rights Option under ACEP-WRE for fiscal year 2018. This option is for selected counties in central and western Kansas. Landowners should check with their local USDA Service Center to see if this enrollment option is available for their county.

Landowners in these counties can select an enrollment option for length of time as well as for Reservation of Grazing Rights. The selection for a Reservation of Grazing Rights will result in a 25 percent reduction in the easement payment, in addition to any other reductions to the easement payment per enrollment option as applicable.

Landowners can choose between the ACEP-Agricultural Land Easements (ALE) or ACEP-Wetland Reserve Easements (WRE) enrollments options. ALE protect the long-term viability of the nation's food supply by preventing conversion of productive croplands and grasslands to non-agricultural uses. The WRE component restores wetlands to provide habitat for wildlife, including threatened and endangered species; improve water quality by filtering sediments and chemicals; reduce flooding; recharge groundwater; and protect biological diversity.

NRCS provides technical and financial assistance directly to private and tribal landowners to restore, protect, and enhance wetlands through the purchase of conservation easements. Eligible landowners can choose to enroll in a permanent or 30-year easement. Tribal landowners also have the option of enrolling in 30-year contracts.

NRCS staff and partners will work with applicants to help them through the application process for WRE. Land trusts and other eligible entities in Kansas will work with landowners to help them through the application process for ALE and provide one-on-one assistance to create the conservation

easement that works best for their farming or ranching operation.

All WRE applications will be ranked according to the easement's potential for protecting and enhancing habitat for migratory birds, fish, and other wildlife. Eligible applicants will be compensated with a payment rate based on an individual land appraisal, established Geographic Area Rate Cap (GARC), or landowner offer, whichever is less. When available, the GARC rates are posted on the Kansas NRCS website. ALE payments are determined by an appraisal process completed on the property.

Kansas acting state conservationist Sheldon L. Hightower said, "Conservation easements provide many public benefits to Kansans, including protection of open spaces, wildlife habitat, and wetland restoration and protection. We encourage private landowners, Indian tribes, and non-governmental organizations to contact their local NRCS office to apply."

It is important that applicants provide accurate records of ownership and ensure they have established a record of ownership with USDA's Farm Service Agency. Application information is available at your local USDA Service Center and at www.nrcs.usda.gov/Get-Started.

For more information, visit the Kansas NRCS website www.ks.nrcs.usda.gov/programs or your local U.S. Department of Agriculture (USDA) Service Center. To find a service center near you, check on the Internet at offices.usda.gov. USDA is an equal opportunity provider, employer, and lender.

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AROUND KANSAS



The Dodge City doctor who inspired the character of Doc Adams on *Gunslinger* has been honored with a statue in front of the Kansas Institute of Health Offices near the statehouse. Samuel Crumbine invented the fly swatter, battled the public drinking cup, and admonished us not to spit on the

sidewalks. His descendant, Dennis Crumbine, attended the statue's dedication, as did biographer R. Alton Lee.

The Institute's executive officer, Bob St. Peter, told the *Capital-Journal's* Morgan Chilson,

"I think that he approached health from ... a public health and a

community perspective," he said. "He talked a lot about all of the other factors that influenced health, especially the health and well being of children."

Carson Norton, of Norton Art Studios, depicted the iconic figure atop a soap box, his hat in his hand, obviously sharing an impassioned message with passersby. Born in Pennsylvania in 1862, Crumbine came of age in a time when the nation was ravaged by consumption, or tuberculosis. There was little understanding of the role of germs in spreading illness but Crumbine knew that the only way to control the spread of disease was to stop people from sharing germs. Bricks were

molded with the command, "Don't Spit on the Sidewalks," and he campaigned to replace public drinking cups and the roll towels especially common in depot restrooms. The roll towel simply kept rolling, no matter how dirty it became, until replaced, defeating the purpose of handwashing.

Crumbine served as executive officer of the State Board of Health in the early 20th century and then became dean of the Kansas Medical School. He later moved to New York City but returned to Kansas often to lecture.

Carson is the son of artist and sculptor Charlie Norton of Leoti. Charlie's wife, Pat, an artist herself, was the model for the the "Spirit of the

Prairie" statue in front of the Thomas County Courthouse in Colby. The woman is waving, holding a baby on her hip, and the model for that baby was little Carson. Perhaps the most famous of Charlie's sculptures is that of Buffalo Bill at Oakley. The larger-than-life Cody is in full stride atop his horse and taking aim at the buffalo running alongside. Visit the Buffalo Bill Cultural Center, have a cup of coffee, and walk up to the sculpture to spend a few moments with perhaps the most iconic of western figures.

Carson is also starring in the documentary, *Thof's Dragon*, in production now. He portrays Fort

Wallace Post Surgeon, Theophilus Turner, and is a dead ringer for the character.

Tonya Carson Lamb, Charlie and Pat's daughter, is also a talented artist and works in fiber, raising her own sheep for the wool.

The first time I met the Nortons, I could not help but think how rural Kansas fosters some incredible talent.

It is displayed all around Kansas.

Deb Goodrich is the co-host of *Around Kansas* and appreciates her numerous talented friends who make art every day. Contact her at author.debgoodrich@gmail.com.

Gourds – nature's multipurpose utensils

Our ancestors couldn't go to the hardware store or shopping mall to buy utensils and other household essentials. Instead, they improvised with items found in nature. The dried fruit of several members of the cucumber family proved useful for many purposes, said University of Missouri Extension horticulturist David Trinklein.

Today, we call these plants gourds, and they may be among the first domesticated plant species, dating back as early as 13,000 B.C.

Members of the genus *Lagenaria* produce white flowers that open at night and have soft, delicate foliage. Most bear fruit that have thick, hard shells when dried. This makes them useful for items such as ladles, dippers, spoons and containers. Native Americans made gourds into birdhouses to attract purple martins, which helped with insect control.

The fibrous interior of gourds from the genus

Luffa has been used for items as diverse as oil filters, life preservers, scrubbing sponges (called "luffas" or "loofahs"), hats and upholstery.

Most of the colorful gourds people use for autumn decoration belong to the genus *Cucurbita*. They are close relatives of pumpkin. Members of this genus produce yellow flowers that open during the day and have coarser foliage than the white-flowers types. Examples include the pear, egg, orange, spoon, bicolor and warted gourds.

If you have gourds in your garden, harvest small ornamental gourds as soon as rinds mature and harden. Cut them from the main vine, allowing a small portion of the stem to remain attached. Whether harvested or purchased, fresh gourds need to cure for several weeks in a warm, dry area with good air circulation. After curing, dip or coat them with a household disinfectant to prevent storage diseases. A light coat of

wax also protects them from disease and gives them an attractive sheen.

Leave the hard-shelled gourds on the vines until vines die or freeze in late fall. Freezing does not harm mature gourds but it causes immature ones to collapse. Store hard-shelled gourds in a warm, dry area to cure. For most types, curing takes about four months. Curing is finished when the seeds inside the gourd rattle when shaken. The gourd can then be sanded, sawed, painted or polished.

"For adventuresome gardeners, saving seeds from gourds can be interesting," said Trinklein. *Cucurbits* freely cross-pollinate, so seeds saved from gourds grown in the garden will likely produce fruit of different shapes, sizes and colors. "More likely than not, very few of the offspring will resemble the fruit from which the seed was saved."

For more information, see David Trinklein's article about gourds in the August 2015 issue of *Missouri Environment & Garden* at ipm.missouri.edu/MEG/?ID=347.

Gourd trivia

- Gourds were used as life preservers in ancient China.

- For a brief time in the early 1800s, gourds served as the official currency of Haiti. Today, Haiti's currency unit is still called the "gourde."

- The papery, winged seed of the climbing gourd has a wingspan of 5 inches. It reportedly inspired the design of early aircraft and gliders.

- According to the *Guinness Book of World Records*, the world's longest gourd grew in China in 2008. It measured an astonishing 14 feet, 11 inches.

- East Africans often give gourds with picture stories carved on them as wedding gifts.

- Ricky Ricardo's bongo drum in the television sitcom *I Love Lucy* was made from a zucca gourd. The zucca gourd frequently grows to 50 pounds or more.

USGC works to expand ethanol use in Africa as part of global demand strategy

Individual markets in Africa vary greatly, but the continent as a whole offers significant potential demand for U.S. ethanol exports.

Brian Healy, U.S. Grains Council (USGC) manager of ethanol export market development, recently traveled to Kenya to evaluate and develop opportunities for U.S. ethanol in the continent and speak at a regional ethanol and sugar conference. There, he was able to engage with senior agricultural, energy and environmental ministry officials to learn more about ethanol production, use and trade across the region.

Healy explained that Kenya is a significant importer of finished gasoline, driven by an expanding middle class, high levels of development and access to capital. In addition, the country already has pro-ethanol policies in place, providing the foundation for ethanol use.

"Kenya, which has had an ethanol mandate since 2010, is currently not blending ethanol into their fuel due to infrastructure constraints related to refining and blending as well as limited expansion in feedstock production," Healy said. "However, opportunities for U.S. ethanol do exist in this and other African markets."

The Council is working to identify new market opportunities for U.S. ethanol in Africa, including promoting the development of pro-ethanol policies throughout the region and providing production and market information on the value of U.S. ethanol.

While many African countries have opportunities to expand their own domestic feedstock production, U.S. ethanol is already making its way to these markets via the Persian Gulf, where greater refining capacity exists. According to a Council-commissioned study, U.S. ethanol exports to the United Arab Emirates are being blended into gasoline and shipped to East

African markets.

The use of ethanol supports these countries in achieving goals related to reducing environmental pollution and improving air quality for human health in addition to providing economic value as an octane enhancer. These important components form the foundation of the Council's global ethanol market development engagements and programs.

To communicate these benefits, the Council focuses on building relationships in the fuel and ethanol sectors by working with local industry to share with regulators lessons learned from the U.S. adoption of ethanol, particularly related to reducing air pollution and diversifying fuel supplies. These efforts also help establish the United States as a reliable and afford-

able source of ethanol.

"We are broadening our outreach by identifying and analyzing potential new markets and developing strategies tailored to the culture and conditions of each market," Healy said. "At the same time, we are committed to our established markets in this truly global engagement."

ABSOLUTE REAL ESTATE AUCTION
THURSDAY, NOVEMBER 30 — 6:00 PM
 DELIA COMMUNITY BUILDING — DELIA, KANSAS
800 ACRES JACKSON COUNTY, KANSAS
See last week's Grass & Grain for complete details!
ROBERT "OSCAR" McCOY ESTATE
KENNETH HOUCK, EXECUTOR
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77.44 AC. LYON CO. FLINT HILLS GRASSLAND AUCTION
BUILDING SITE • GRAZING • HAY MEADOW
WEDNESDAY, DECEMBER 6, 2017 — 7:00 PM
AUCTION LOCATION: Best Western Hospitality House, 3021 W. US Hwy. 50 — EMPORIA, KANSAS

DESCRIPTION: Do you want a nice hayable property of native grass? Then here it is! Here is a Flint Hills pasture along US-56 and P Rd. with excellent access. The pasture has been hayed for many years. As I drove over the property, I didn't see any outcroppings of rock and the land can be hayed except for the draws and pond area. The old saying, "always buy a pasture on a divide," holds true for this property, as you will notice the divide is through the middle of the pasture and is definitely quality grassland.





See www.griffinrealestateauction.com for details!

RICK GRIFFIN
 Broker/Auctioneer
 Cell: 620-343-0473

Griffin Real Estate & Auction Service LC
 305 Broadway
 Cottonwood Falls, KS 66845
 Phone: 620-273-6421 • Fax: 620-273-6425
 Toll Free: 1-866-273-6421

CHUCK MAGGARD
 Sales/Auctioneer
 Cell: 620-794-8824

In Office: Nancy Griffin, Heidi Maggard
 Email: griffin123r@gmail.com
www.GriffinRealEstateAuction.com



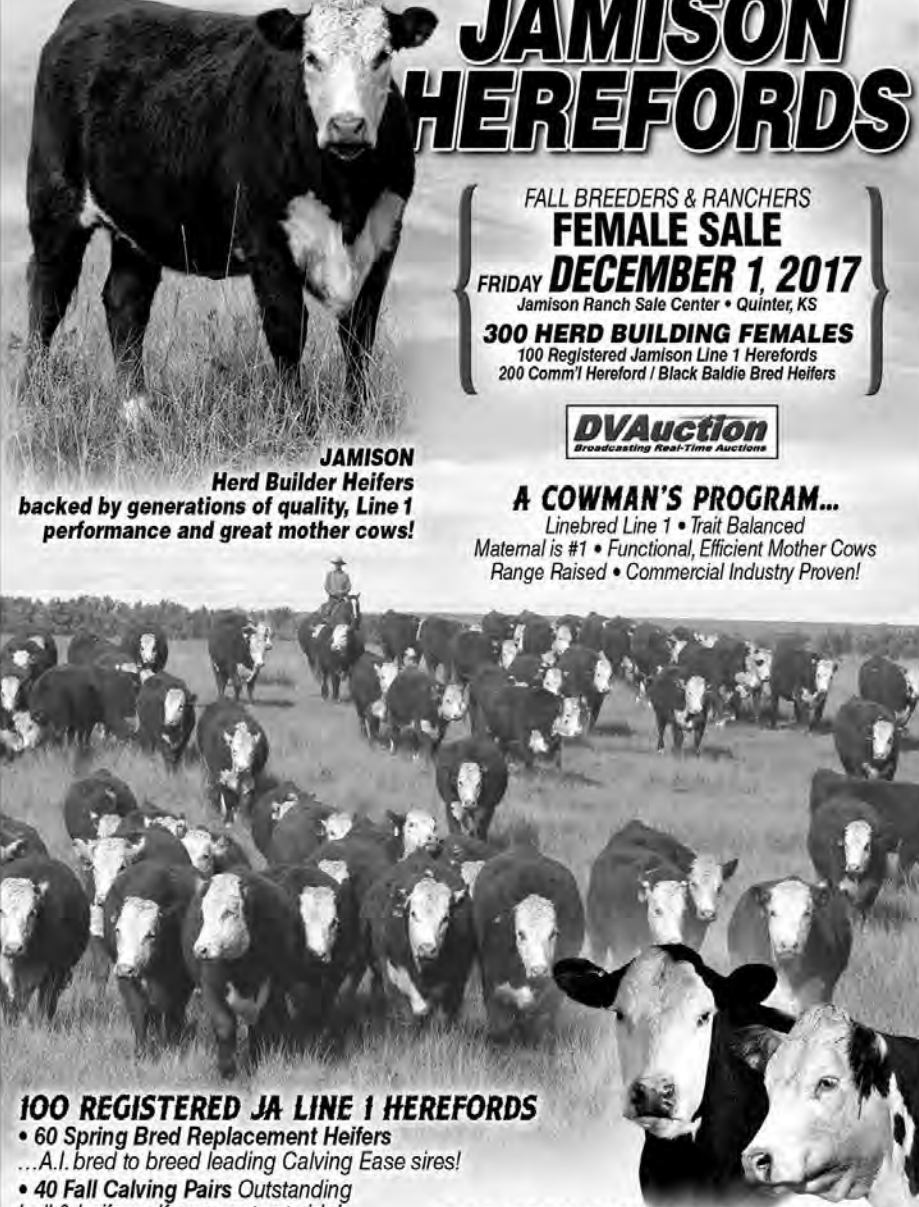
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Soil fertility important factor in production levels

By David Hallauer, Agent, Meadowlark Extension District, Crop and Soils, Horticulture

Whether you're talking a small garden, a large lawn, or even larger production agriculture acreages, soil fertility is a huge key in maintaining production levels. Nutrient deficiencies not only reduce production, but in some cases can reduce the effectiveness of nutrients that aren't deficient as well. It makes a good soil sample all the more valuable!

Soil sampling isn't necessarily difficult, but some attention to detail must be paid to collect a sample that can provide you with accurate information via which you can start to make fertilizer application decisions. Start with a probe, auger or spade, and a clean plastic pail as well as soil sample containers and a soil information sheet from your local Extension office or fertilizer dealer.

Samples should be collected from uniform areas,

with each area exhibiting the same soil texture, color, slope, and fertilization and cropping history. For gardens, a composite sample of the entire garden is acceptable unless you are trying to monitor soil test levels for a certain crop or area of the garden. Avoid sampling from only the really good areas or really bad areas, as well as places like old fencerows, low spots, feeding areas, or other areas that might give unusual results. If information is desired on

unusual areas like those mentioned above, obtain a separate sample from the area for comparison purposes.

How many samples should you take? Good question! For small areas, it can be tough to take the 20-30 cores necessary to get accurate results. When possible, you are strongly encouraged to do so, but if you can't, a minimum of 10-15 cores should be taken per sample. Single core samples are not acceptable! Mix the cores

thoroughly in a clean container and fill your soil sample bag. Make sure that each sample bag or container is labelled correctly, with information from the sample container matching the soil test information sheet submitted with the samples.

Soil samples for pH, Phosphorous, Potassium, and Zinc should be pulled from a depth of zero to six inches. Samples being taken to collect information on soil available nitrogen require a 24-inch

sampling depth for best results.

Information collected from soil sampling can go a long way towards helping to fine tune your nutrient management program. Fall is a great time to get started! Contact a District Extension Office for further sampling information or to find out about testing procedures, soil probe checkout, and soil test package costs.

'About My Woods' app now includes Kansas, Great Plains

Thanks to a grant from the State and Private Forestry organization of the USDA Forest Service, the Kansas Forest Service and Innovative Natural Resource Solutions, LLC have completed an update to a free smartphone application for Kansas and Great Plains woodland owners.

About My Woods was initially developed by the North East State Foresters Association in cooperation with the USDA Forest Service, and was designed to increase landowners' knowledge of their woodlands and related natural resources. The update has added information pertinent to Kansas and the Great Plains.

The smartphone app facilitates hands-on learning opportunities, such as tree, plant, and wildlife identification. It includes a mapping feature that enables

landowners to pinpoint their woodland location and access information about soils, land cover type, and watersheds. It also provides both satellite and topographic imagery.

In addition to maps, About My Woods will help the user find Kansas Forest Service district foresters, private forestry consultants and contractors, information on the Kansas Forestry Association, and other important natural resource organizations.

About My Woods is organized into five sections: Maps, What's in My Woods, Things to know, Who Can Help, About My Woods videos and Field Notes. What's in My Woods includes high-quality photos and information about trees, wildflowers, animals, and invasive species. Things to know includes a glossary, frequently asked

questions, threats and benefits to woodlands, how to find foresters, and links to related natural resource sites & organizations. Who Can Help provides a county-level listing of foresters and other natural resource professionals that can assist with natural resource management. About My Woods videos are a series of forest stewardship videos to help woodland owners manage their lands. Field notes is a great way to collect information about woodlands while the user is on site.

The Kansas Forest Service encourages landowners and natural resource professionals interested in learning more about the natural resources on their property to download the app at the App Store (Apple) or Play Store (Android).

Vermeer introduces world's first self-propelled round baler

Vermeer continues to lead innovation in the hay and forage industry by introducing the world's first self-propelled round baler. Unveiled at Husker Harvest Days, the prototype ZR5 self-propelled baler promises to make quick work of any field while offering unprecedented ride quality and maneuverability.

"Our patent-pending suspension technology allows operators to better handle the bumps and jostling that naturally comes with baling hay," said Josh Vrieze, Vermeer product manager. "If you think about all those bumps over

the course of the day or multiple days, ride quality can really impact the operator. In the ZR5, operators experience a smoother, more comfortable ride with the cab uniquely positioned over the suspension."

With a nod to the lawn care industry, Vermeer has applied zero-radius turning to the steering system in the self-propelled machine. This feature allows operators to gain better maneuverability and driving efficiency than a conventional tractor-baler combination.

"Operators can spend less time turning in the

field and more time baling. The zero-radius turning can eliminate skipping a windrow to make the turn or swinging out wide to get into the next windrow," adds Vrieze. "And, when it's time to head to the next field, zero-radius turning can be disengaged. Folks who have operated other self-propelled machines will appreciate the dual steering functionality; with the zero-turn disengaged, the operator steers the ZR5 using the front wheels for a smooth, confident ride."

While still a prototype, automating the baling process, as well as providing the ability to automatically make real-time adjustments based on field, crop and operator inputs, are just a couple of the goals Vermeer has for the ZR5. Integrated quarter-turn technology is part of the ZR5 baling automation process. During the tie-cycle, the machine can automatically rotate to the left or right, positioning the

bale parallel to the windrow upon ejection. When placing bales parallel to the windrow, the picking up process can be completed up to 35 percent faster.

Keeping machine maintenance simple is another objective Vermeer is striving to achieve. The bale chamber can be removed for maintenance in a matter of minutes, helping to ensure producers are spending time productively in the field.

"Farmers and ranchers are facing one of the same challenges they did in 1971 when Gary Vermeer introduced the round baler, and that is labor," said Mark Core, Vermeer executive vice president. "As access to labor in rural areas becomes more limited, we believe the type of innovation needed to design the ZR5 will need to continue to pave the way for more efficiency, productivity and an eventual reduction in labor needed to produce the same amount of feed. I'm happy to say Vermeer is proud to be making this investment in innovation and dedicated to leading the way."

HAY AUCTION

SATURDAY, DECEMBER 2, 2017 — 1:00 PM

13850 Hwy. 13, WESTMORELAND KANSAS

Auction Located: From jcts. of Hwy. 24 & Hwy. 13 North of Manhattan, take Hwy. 13 North 10.3 mi., on West side OR East of Olsburg, KS to the jcts. of Hwy. 16 & Hwy. 13, take Hwy. 13 South 3.3 mi. on the West side to 13850 Hwy. 13, Westmoreland, KS

1050 M/L 4x5' bales of Prairie, Alfalfa, Sudex & Straw. (mostly string tied, some net wrapped)

- Prairie Hay** – 411 bales of 2017 hay
 - 85 bales of 2015 hay (under cover)
 - 41 bales of mix grass hay
 - 21 bales Oat hay
- Alfalfa** – 111 bales of 2017 1st & 3rd cutting
 - 39 bales 2nd cutting, R F V of 198 (Dairy quality, shedded)
- CRP** – 85 bales Native grass hay
- Sudex** – 75 bales (has been tested)
- Straw** – 161 bales 2017. Approx. 30 bales older straw.

SELLERS: THE LOREN DETERS ESTATE
For more info, please call Sylvester Schmitz - 785-294-0908
Bring your trailers! We will start loading!
TERMS: Cash or valid check. Not responsible for accidents or theft. Statements made sale day take precedence over printed material.

Auction Conducted By: CLINE REALTY & AUCTION, LLC ONAGA, KANSAS • 785-889-4775
John E. Cline, Broker-Auctioneer, 785-532-8381
Austin Cline, Auctioneer, 785-765-3246
www.mcclivestock.com/clinerealty

GENERAL INFORMATION: These farms has been owned by the Pagenkopf family for a number of years and offer the opportunity to purchase a smaller farm in a good location with a nice combination of grass and cropland. Take a Sunday afternoon drive and give these properties a look. Visit www.fjordanauction.com for more soil maps, FSA photos and other information.

FSA INFORMATION:

	Farmland Acres	Cropland Acres	Wheat Base/Yield	Soybean Base/Yield	Sorghum Base/Yield
Tract #1	69.84	57.97	17.62/41	23.43/30	12.05/50
Tract #2	79.86	20.87	15.57/38	4.43/25	.84/63

The above are FSA estimates only and are not guaranteed.

TRACT #1: S/2 NE/4 of 9-15-4E, Dickinson County, Kansas, less homestead. 52.9 acres tillable (all in wheat), 11.8 acres meadow and 5.07 acres waterways. Predominantly Irwin, Class II soil. 2016 taxes were \$707.88 based on 68.6 taxable acres.

TRACT #2: S/2 NW/4 of 10-15-4E, Dickinson County, Kansas, less homestead. 100.73 acres (all in wheat), balance fenced grass with nice pond. Cropland is predominately Irwin, Class II; grassland is predominately Clime Sogn, Class VI. 2016 taxes were \$569.18 based on 79.3 taxable acres.

IMPROVEMENTS: Tract #2 has an older set of farm improvements, including an older 40 x 60 Astro building. Improvements are open for inspection any time prior to sale.

SELLER: Deanna Pagenkopf Rundel Clay Center, Kansas

SALE CONDUCTED BY:

PH: (785) 455-4747 128 W. 304th
SPRINGFIELD, KANSAS 67480
Specialists in Land Auctions
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TERMS AND CONDITIONS: 10% due day of sale, with balance due 12-27-2017. If for some reason title conveyance cannot be completed by 12-27-17, buyer to pay 10% per annum interest on unpaid balance from 12-27-2017 until date sales are closed.

2017 real estate taxes and prior years paid by Seller. Title Insurance will be used with cost split equally between Buyer and Seller. 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.

POSESSION: Farm selling subject to the existing tenant rights of Gaylen Kickhaeber.

WHEAT GROUND: After 2018 Harvest. Buyer to receive \$45.00 per acre cash rent credit at closing based on planted acres.

GRASS & WATERWAYS: At closing

Subscribe to GRASS & GRAIN ONLINE at: grassandgrain.com

230.04 ACRES MARION COUNTY AUCTION

WEDNESDAY, NOVEMBER 29, 2017 — 6:00 PM

AUCTION LOCATION: Florentine Masonic Lodge, Downtown FLORENCE, KS 66851

AUCTIONEER'S NOTE: What a great location just 1 mile off of Hwy-77. One look and you can tell that the pasture has been managed correctly as to stocking rate, brush control and fencing. If livestock is your passion then you will be excited about this Flint Hills Grassland! Come see for yourself, quality is always a good investment! **ADDRESS:** Rd 120, Florence, KS. **LOCATION:** One mile west of Florence, KS on Rd 120th. Property is on the north side of gravel county road. Watch for signs.

SELLER: GARY W. HAMM
See all information: www.griffinrealestateauction.com

Griffin & Auction Real Estate Service LC
RICK GRIFFIN Broker/Auctioneer Cell: 620-343-0473
CHUCK MAGGARD Sales/Auctioneer Cell: 620-794-8824
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In Office: Nancy Griffin, Heidi Maggard
Email: griffin123r@gmail.com • www.GriffinRealEstateAuction.com

NORTHERN NEMAHA COUNTY REAL ESTATE AUCTION

SATURDAY, DECEMBER 9, 2017 — 1:30 PM

Held at The Knights of Columbus Hall, 211 Knights of Columbus Drive, SENECA, KANSAS

135 ACRES m/l of Farmland, Pastureland & Wildlife Habitat
Property located from the Jcts. of Hwy. 36 & Hwy. 63 in Seneca, KS. 10 miles North on Hwy. 63 to 232nd Rd. then 4 miles West to G Rd., then 3/4 of a mile South on the East side. OR from Dubois, Nebraska, 3 miles South to 232nd Rd., then 4 miles West to G Rd., then 3/4 of a mile South on the East side.

LEGAL DESCRIPTION: A tract of land in the Southwest Quarter of Section 7, Township 1 South, Range 12 East, Nemaha County, KS This property consists of 135 acres m/l of which 45.5 acres are terraced farmland per FSA records with 77.5 acres in mix grass pasture with some tree cover for wildlife and the balance of 12 acres being meadow and more wildlife habitat. Property has rural water with meter.

For more information or viewing, please call John Cline, 785-532-8381
Go to our website for more information: www.mcclivestock.com/clinerealty

TERMS & POSSESSION: The sellers require 10% down day of sale with the balance to be paid on or before January 9, 2018. Possession to be upon closing. Buyer and seller to equally split the title insurance and closing cost of the Nemaha County Title and Abstract Company. 2017 taxes to be paid by the seller. Statements made sale day take precedence over printed material. Cline Realty and Auction, LLC represents the sellers interest.

SELLERS: HEIRS OF THE AMBROSE & MARY ANN SCHMITZ ESTATE
Auction Conducted By: **CLINE REALTY & AUCTION, LLC ONAGA, KANSAS • 785-889-4775**
John E. Cline, Broker-Auctioneer, 785-532-8381
www.mcclivestock.com/clinerealty

Breeding resistant chickens for improved food safety

A new test developed by Agricultural Research Service (ARS) scientists in College Station, Texas, could make it easier to breed pathogen-resistant chickens.

The test identifies roosters whose blood contains naturally high levels of two key chemicals, cytokines and chemokines. These chemicals mobilize the birds' innate immune response, according to ARS microbiologist Christi Swaggerty, in ARS's Food and Feed Safety Research Unit.

Using the new test, commercial poultry breeders can single out roosters that have a strong immune response and use them to selectively breed a more robust flock. Such resistance, especially during the birds' first week of life, may lower costs related to animal wellbeing and food safety.

Protecting chickens from pathogens involves sanitation, vaccination, biosecurity and use of antibiotics and other medications. But some chickens have an especially robust and efficient immune response and can resist pathogens, notes Swaggerty.

The researchers used the test to select roosters for breeding a line of resistant broilers. They then exposed the resistant broilers to several pathogens. They compared the resistant group to a group of susceptible broilers bred from roosters with low cytokine and chemokine levels.

The published results showed that the susceptible broilers had more pathogens and signs of infection than the resistant group. Ultimately, such resistance could mean fewer pathogens remaining on birds at the processing plant and improved consumer safety, Swaggerty notes.

Swaggerty and her colleagues study the genetics of chickens' resistance to foodborne disease-causing pathogens, such as Salmonella and Campylobacter. Some species of these two bacteria together cause two to three million U.S. cases of foodborne illness in consumers and 450-500 deaths annually.

Another poultry disease, coccidiosis, is caused by a single-celled parasite known as Eimeria. In the U.S., coccidiosis inflicts annual production losses of up to \$800 million, making this intestinal disease a significant threat to nearly 9 billion U.S. meat-type birds.

79.60 ACRES LYON COUNTY AUCTION

GRASS, CRP INCOME, WILDLIFE & HUNTING

THURSDAY, NOVEMBER 30, 2017 — 6:00 PM

AUCTION LOCATION: Hartford Community Center, 117 Commercial St. — HARTFORD, KANSAS

Property Address: 100 Rd X Hartford, Ks 66854. **Directions:** From Hartford Ks, south on Z Rd 7 miles to Rd 30, then west 2 miles to Rd X and 1.3 miles south on Rd X to the west side of property. Want some established grass for grazing or hunting? This tract has just that. The native grasses of bluestem have been established for years. Very little timber on the property, yet enough to provide cover for deer and wildlife.

Property of VIOLA R. WILSON REV. TRUST & LAWRENCE L. WILSON REV. TRUST

See all information: www.griffinrealestateauction.com

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In Office: Nancy Griffin, Heidi Maggard
Email: griffin123r@gmail.com • www.GriffinRealEstateAuction.com

REAL ESTATE AUCTION

THURSDAY, DECEMBER 7, 2017 — 1 PM

Cattle Starting/Growing Facility - Barn, Pens, Bunks, Processing Equipment with 7 Bed, 3 Bath Home - 240 Acres in Woodson County

Sale Site: 809 West Mary — YATES CENTER, KS

TRACT 1: 80 Acres - S1/2 NE1/4 Sec 26, T24S R15E - Grassland with Good Fences & Water.

TRACT 2: 160 Acres - SE1/4 Sec 26, T24S, R15E - Cattle Facility - Starter/Growing Lots w/Waterers, Feed Bunks, Processing Facility, 3 Large Shop Buildings, Office and Includes 7 Bed, 3 Bath Ranch Home.

TRACT 3: Combination of Tracts 1 & 2, 240 Acres as per Woodson Co. records. Mineral Rights are Included - No Lease

TERMS: \$25,000 down on Tract 1. \$20,000 down on Tract 2. \$45,000 down on Tract 3, as non-refundable earnest deposit and signing of a purchase agreement the day of sale, the full balance due within 30 days at closing. Buyer & Seller will split cost of title insurance and closing agent fee. Properties sell subject to sellers reserve and all rights of way & easements & restrictions of record, and appropriate court approval. Property sells "as is" with no guarantees or warranties from seller or sellers agent. Property does not sell subject to financing or rights of rescission. 2017 and all prior years taxes will be paid by the Seller. Possession of house will be March 1, 2018. Possession on all other land will be at closing. Buyer inspections must be completed prior to sale date.

For more details contact sellers agent: LARRY MARSHALL AUCTION & REALTY- FREDONIA, KS 620-378-4356 or 620-485-6136
marshallauction@twinmounds.com - www.marshallauctionandrealty.com

OWNERS: BERT & CATHY CARLSON
LARRY MARSHALL AUCTION & REALTY
413 N 6th St., Fredonia, KS 66736
620-378-4356 / 620-378-2854

Auction Sales Scheduled

Online Estate auction — Bidding opens Nov. 28 & begins to close Dec. 5 — Antiques & collectibles, antique furniture, jewelry, KU memorabilia, glassware & much more at www.dlwebb.com for Estate of Lenoir Ekdaahl. Auctioneers: Dave Webb, Webb & Associates Auctions & Appraisals.

November 20 — 356 acres m/l of Nemaha County farm & pasture land plus homestead to be offered in 4 tracts held at Seneca for Raymond & Dorothy Deters Estate. Auctioneers: Cline Realty & Auction, LLC.

November 22 — 320 acres m/l Kiowa County land & office building held at Mullinville. Auctioneers: Hamm Auction and Real Estate, LLC.

November 25 — Antiques, collectibles, appliances, household, tools, coins & more at Hunter for Betty Standley. Auctioneers: Meitler Auction Service.

November 25 — Consignment auction at Salina. Auctioneers: Wilson Auction & Realty Service.

November 27 — 160 acres m/l irrigated Pratt

County land held at Pratt for Olin K. & Phyllis J. Bock Rev. Living Trust. Auctioneers: Hamm Auction & Real Estate.

November 27 — The NE 1/4, 9-5-1, Clifton township, 2/3 cropland, 1/3 excellent wildlife habitat held at Clifton. Auctioneers: Raymond Bott Realty & Auction.

November 29 — 230.04 acres m/l Marion County Flint Hills grassland held at Florence for Gary W. Hamm. Auctioneers: Griffin Real Estate & Auction Service, LC.

November 30 — 79.60 acres m/l Lyon County grass, CRP income, wildlife, hunting held at Hartford for property of Viola R. Wilson Rev. Trust & Lawrence L. Wilson Rev. Trust. Auctioneers: Griffin Real Estate & Auction Service, LC.

November 30 — Absolute real estate, 800 acres Jackson County, KS land held at Delia for Robert "Oscar" McCoy Estate. Auctioneers: Gannon Real Estate & Auctions.

November 30 — 147 acres Dickinson County farmland & grassland held at Abilene for Deanna Pa-

genkopf Rundle. Auctioneers: Riordan Auction & Realty.

December 1 — 1,565 acres of Butler County, KS Flint Hills Ranch land held at El Dorado for Flintstone Cattle Co., LLC. Auctioneers: Sundgren Realty, Inc.

December 2 — Farm equipment, trucks, trailers, vehicles, livestock related items, misc. at Yates Center for Farmers State Bank of Aliceville. Auctioneers: Vaughn-Roth Auctions.

December 2 — Farm machinery, dozer, low boy, camper, antiques (no misc., be on time) located near Parsons for John & Debbie Diediker. Auctioneers: Larry Marshall, Mark Garretson.

December 2 — Beautiful home & buildings on approximately 5 acres held at Alma for Earl Ross Trust. Auctioneers: Gannon Real Estate & Auctions.

December 2 — Hay auction held North of Manhattan for the Loren Deters Estate. Auctioneers: Cline Realty & Auction, LLC.

December 2 — Tractor, machinery, house-

hold, tools, trucks, holiday decor, lots of misc. Northwest of Auburn for property of the late Charles & Nancy Koch. Auctioneers: Wischropp Auctions.

December 2 — Model Trains: train cars, engines, building & more at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

December 2 — 660 acres m/l Marshall County, KS land sold in 6 tracts in Bigelow & Wells Townships held at Frankfort for Mrs. (Richard) Mary Helen Howell Estate. Auctioneers: Donald Prell Realty & Auction, LLC.

December 2 — Chase County Home & Grasslands (sold in 2 tracts) held at Cottonwood Falls. Auctioneers: Griffin Real Estate & Auction Service, LC.

December 3 — Guns held at Salina for a private collector. Auctioneers: Thummel Real Estate & Auction, LLC.

December 5 — Tractors, trucks, car, machinery, trailers, cattle equipment & tools held just north of Hunter for Doug Greiner Estate. Auctioneers: Thummel Real Estate & Auction, LLC.

December 6 — 77.44 acres Flint Hills grassland, building site, grazing, hay meadow held at Emporia. Auctioneers: Griffin Real Estate & Auction Service, LC.

December 7 — 240

acres in Woodson County cattle starting/growing facility, barn, pens, bunks, processing equipment w/BR, 3 BA home held at Yates Center for Bert & Cathy Carlson. Auctioneers: Larry Marshall Auction & Realty.

December 9 — Semi tractor, tractors, equipment, grain trucks, trucks, trailers, ATV, mower, stationary engines, parts, etc., livestock & fencing equipment, tools & shop items, misc. & more at Fairbury, Nebraska for Multi-Party Farm Auction. Auctioneers: Schultis & Son, Inc. Real Estate & Auction Service.

December 9 — 135 acres m/l of Northern Nemaha County farmland, pastureland & wildlife habitat held at Seneca for Heirs of the Ambrose & Mary Ann Schmitz Estate. Auctioneers: Cline Realty & Auction, LLC.

December 9 — Tractors, Pickup, ATVs, Tools, Toys, Household, & Machinery held North of Waverly for Duane & Veve Young Estate. Auctioneers: Wischropp Auctions.

December 9 — Multi-Party Farm Auction with Semi Tractor, Tractors, Equipment, Grain Trucks, Trucks & Trailers, ATV & mower, Stationary engines-parts-etc, Live-

stock & fencing equipment, Tools & shop items, and misc. items in Fairbury, NE. Auctioneers:

Schultis & Son Real Estate & Auction Service.

December 12 — 293.5 acres pasture held at Marquette for Darrel K. Loder. Auctioneers: Coldwell Banker Antrim Piper Wenger Realtors.

December 14 — Real Estate (commercial building & undeveloped lot) & business merchandise (office equipment, shearing equipment, forklift, spinning wheels, fencing, inventory of new show, sheep and goat supplies & more) held at South Hutchinson for Mid-States Wool Growers. Auctioneers: Ruckert Realty & Auction.

December 16 — Farm & ranch equipment of all kinds held at Burlington for Larry & Sandra Paxson. Auctioneers: Vaughn-Roth Auctions.

December 16 — 281 acres Wabaunsee County native grass land held at Alma. Auctioneers: Murray Auction & Realty.

January 1, 2018 — Harley Gerdes 33rd Annual New Years Day consignment including farm & construction equipment held at Lyndon. Auctioneers: Harley Gerdes Auction.

March 6, 2018 — Bull sale at Lacrosse for Cornwell Farms.

March 10, 2018 — Concordia Optimist Club Annual consignment auction held at Concordia. Auctioneers: Thummel Auctions.

New Holland wins Silver Medal at the Agritechnica Innovation Awards

New Holland Agriculture was awarded the Silver Medal by the independent expert committee appointed by the DLG German Agricultural Society for its proactive and automatic combine setting system — the first in the industry — for its CR Revelation combines. "This innovative feature addresses one of the biggest challenges for combine operators: maintaining maximum throughput levels while keeping losses and the percentage of damaged grain at low levels. The new automatic combine setting system takes automation to a new level: while current systems are reactive, New Holland's solution proactively predicts changes in slope and crop density, making corrective adjustments before overload or losses even occur," said Lars Skjoldager Sørensen, head of Harvesting Product Line.

Maximum throughput, minimum losses and damaged grain, less operator fatigue

Once past yields, field topography and all combine settings based on GPS positioning data are programmed into the combine, during the first pass of the following harvest campaign, the system will interpolate the data and the setting system will respond rapidly to varying conditions. The proactive system relies on traditional sensors and control systems that have been supplemented by industry first cleaning shoe load sensing, Field and Yield prediction, and remote rotor vanes. The operator can choose different operation modes ranging from maximum throughput to maximum grain quality —

always optimizing power efficiency. Using the data stored into the system, the combine will optimize its settings by itself — and before the header actually starts cutting and taking in the crop.

Industry first cleaning shoe pressure sensors prevent grain losses before they occur

The new pressure sensors on the cleaning system introduce a new way of measuring the load of the cleaning shoe. New Holland's innovative system measures the difference in pressure across the upper sieve, which gives a very precise indication of the cleaning shoe load. Based on this data, the system proactively maximises cleaning shoe performance and prevents losses.

If losses do occur, the system is able to immediately identify the cause and make the necessary

corrections very fast. This translates into faster and smaller corrections to the sieve opening and fan speed, resulting in the cleaning shoe performing at higher capacity level in a stable way. This in turn enables the operator to increase productivity — with the added advantage of not having to continuously make manual adjustments, significantly reducing fatigue.

Self-learning Field and Yield Prediction proactively optimises settings for conditions ahead

New Holland's new automation system takes a proactive approach to correcting settings according to changing harvest conditions. The Field and Yield Prediction system is a self-learning tool that predicts changes in slope and crop density in front of the combine. It uses topology data to an-

ticipate conditions ahead of the header. In order to predict the yield ahead of the combine, it extrapolates the yield of the adjacent passes already harvested and the GPS Yield Mapping data of previous passes programmed into the combine. The automation system proactively optimises the settings accordingly. This results in more reliable and smoother actions that improves the combine's overall performance and output without any intervention from the driver, further reducing operator fatigue.

Automatic rotor vane adjustment improves power efficiency and reduces losses

The combine automatically changes the angle of all the rotor vanes according to the crop load, which has a direct impact on the

time the crop remains in the rotors and the rotor's power requirements. This means that the automated system is able to improve the rotor's power efficiency without impacting the threshing and separation settings improving fuel savings and performance. The combine adapts automatically to changing crop conditions or between different crop types, increasing daily productivity and reducing the time required for conversion between crops. This new feature reduces the power consumed in the rotors up to 20%.

"We are very proud of this award, which is testament to New Holland's commitment to harnessing technology and innovation to help its customers in their constant drive for efficiency and productivity," commented Alessan-

dro Maritano, Vice President EMEA, New Holland Agriculture. "We have developed a self-learning and proactive system that acts faster, optimizing and stabilizing the combine process while reducing the need for operator intervention. With this automation system we are taking another step forward in the automation of the complete combine harvest process. This innovative feature contributes to the exceptional performance of the recently launched CR Revelation, the world's most powerful, high capacity combine: with a redesigned residue management system, improved adjustable crop flow, and further power upgrade, it delivers up 10% more capacity while guaranteeing grain quality and outstanding residue management."

160± Acres IRRIGATED PRATT COUNTY LAND

AUCTION

MONDAY, NOVEMBER 27, 2017 — 1:30 PM
Sale Site: Hamm Auction Center, 107 NE SR 61, Pratt KS.

Seller: Olin K. & Phyllis J. Bock Rev. Living Trust
Legal Desc: SE4 of 3-26-11 Pratt County KS. Land Located: From Preston KS. 3 mi. North and 3 mi. East.
Land Desc: 160± acres of Irrigated land in Pratt County.
Water Right: 40936, 140 acres Authorized; 210 AF, 800 GPM: System & Motor belong to the tenant; Buyer may purchase irrigation system from Tenant or it will be removed by April 1, 2018.
Earnest Money: \$20,000.00 Down Day of Sale. Balance at Closing. **Mineral Rights:** Seller reserves Mineral Rights. Disposal well goes with the property. **Taxes:** 2017 Taxes Paid by the Buyer; **Possession:** Following 2018 Wheat Harvest. Buyer to receive Seller's share of 2018 Wheat crop.
Title Insurance & Closing Agent Fee: 50% Buyer, 50% Seller, Pratt County Abstract. **Closing:** December, 29th, 2017.

Full Sale Bill Online at www.hammauction.com



John Hamm/Auctioneer
620-450-7481
107 NE State Road 61, Pratt, KS 67124
www.hammauction.com

Announcements made Day of Sale take precedence over any internet, faxed, digital or printed materials of all kinds.

MODEL TRAIN AUCTION

SATURDAY, DECEMBER 2, 2017 — 10:00 AM
Auction will be held in Kenwood Hall at the Saline Co Expo Center 900 Greeley SALINA, KS

TRAIN CARS, ENGINES, BUILDINGS **Buildings inc.:** Plastic Ville: Bach Mann: K Lineville; Lionel.

Several hundred 027 model train cars including Lionel; K Line; Rail King; Weaver; MTH; Corgi; Set Ringling Bros, Barnum Bailey circus cars; Marx Santa Fe set 1095; Several engines.

NOTE: This is an individual collection. He has collected for many years. Check our web site for pictures at www.thummelauction.com.

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

GUN AUCTION

SUNDAY, DECEMBER 3, 2017 — 11:00 AM
Auction will be held in Kenwood Hall at the Saline Co. Expo 900 Greeley SALINA, KANSAS

1. Wm Parkhurst double barrel hammer 12 ga. wall hanger; 2. Belgium double barrel hammer gun 12 ga wall hanger; 3. Ithica double barrel left side fires 12 ga.; 4. Colt Police positive 1921 38 special; 5. Ruger Mk II target 22 lr tasco scope; 6. Fabrique Nationale Browning 32 acp; 7. Remington 572 Fieldmaster 22 S,L, LR; 8. Remington 550-1 22 S,L,LR; 9. Remington 522 Viper 22 LR Bushnell Sharpshooter; 10. Savage 99E 243; 11. Winchester big bore 94 XTR 375 Win; 12. Yugoslava SKS 7.62x39; 13. US Springfield 1898 30-40 Krag; 14. M38 Mauser 1942 8mm; 15. Colt 1903 nickel, 32 acp; 16. Norinco 213 Tokarev 9mm; 17. Kel-Tec KSG 12 ga 3" 12+1 BSA Red Dot; 18. Ithica 37 12 ga 2 3/4"; 19. Japanese Arisaka 7.7; 20. British Enfield no 4 MK 1 303 British; 21. Winchester 94AE 44 mag new in box Lyman rear sight; 22. Ruger no 1 30-06 Nikon 3s-9x 40 mm; 23. Winchester 74 22 LR; 24. Springfield 56 22 S,L, LR; 25. Remington rolling block octagon barrel 32; 26. Spanish Royal 32 acp; 27. Astra stainless 357 mag; 28. CZ-25 nickel 380 auto; 29. Ruger M-77 MK II stainless 300 Win mag Bushnell high con-
- trast 3x-9x 40mm; 30. Ruger Ranch 223; 31. Browning Invector plus BPS 12 ga 3"; 32. Winchester 370 12 ga.; 33. Marlin 10 22 S,L, LR; 34. J C Higgins 28 22 LR; 35. British Enfield no 4 Mk 1 303 British; 36. Mauser S98 30-06 Redfield peep; 37. Russian SKS 1950 Tula matching KBI import 7.62x39; 38. Swiss K31 7.5x55; 39. M1 Garand Springfield, service grade SA barrel 30-06; 40. CZ52 ACP; 41. Chiappa 1873-22 SAA 22 LR NIB; 42. Armi San Marco black powder 36 cal NIB; 43. Mosin Nagant 44 7.62x54; 44. Ruger M-77 30-06 Burris scope, 3x-9x 40 mm Fullfield II; 45. Remington 7400 30-06 Tasco 4x32 mm scope; 46. New England Firearms Pardner 20 ga 3"; 47. Remington 11-87 12 ga 3"; 48. Spanish Paramount 1914 32 acp; 49. Mauser 27, 32 acp; 50. Winchester 37 red letter 410; 51. Mossberg ATR 270 Win Simmons 3x-9x 40 mm scope; 52. Marlin 336 Micro-Groove, 30-30 Win; 53. French Mas Mle 1936, 7.5x54; 54. Fabrica De Arms Mauser M98 1949, 8mm; 55. Hi-Stander Sport King 102 22 LR; 56. German Luger "1906" 30 Luger; 57. Ruger Mk II Target 22 LR Weaver Rings & Scope; 58. Walther P38 9mm; 59. Sears 200 by Winchester 20 ga 3"; 60. Remington 870 Express 12 ga 3"; 61. Savage 12 22-250 stainless heavy barrel bipod, 6x-24x 50mm Burris scope; 62. Raptor stainless 270; 63. Remington 870 Express 12 ga 3"; 64. Ted Williams by Winchester 200 20 ga 3"; 65. Winchester 37 20 ga. no trigger guard; 66. Browning Buckmark nib 22 LR; 69. Smith & Wesson 422 22 LR; 70. Sears 25 made by Savage 22 S,L, LR; 71. Marlin 60 Micro-Groove 22 LR; 72. Winchester Ranger 120 12 ga 3"; 73. Winchester 37A 20 ga 3" NIB; 74. Russian 91/30 Nagant 7.62x54; 75. US Springfield 1878 trap door 45-70; 76. Norinco AK Hunter 7.62 x 39; 77. Remington 788 243 Tasco 4x-32; 78. Iver Johnson tip up 32 revolver; 79. Forehand & Wadsworth 38 revolver; 80. Arminius Titan Tiger 38 special; 81. Spanish Allies 1924 32 acp; 82. Rossi 38 special; 83. Winchester 1300 20 ga 3"; 84. Remington 552 Speedmaster 22 S,L, LR Tasco 4x32 mm; 85. Savage 6A 22 S,L, LR.

NOTE: This is a very nice private collection. He has collected for many years. We will be open for viewing at 9:00 a.m. on Sunday morning.

Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC
785-738-0067 • www.thummelauction.com

AUCTION

TUESDAY, DECEMBER 5, 2017 — 11:00 AM
Auction will be held at the farm located 2 miles North of Hunter, Kansas on 150 road to V Road then 1/2 mile West to 1459 V Road.

TRACTORS, TRUCKS & CAR
2001 John Deere 7810 diesel tractor 2 wheel drive, 3009 hrs. triple hyd. 16 speed, weighted, 18.4-42 duals; 1997 Ford Versatile 9282 4 wheel drive tractor, 5009 hrs. 18.4-38 duals; 2006 Ford Taurus SEL 4 door car, 3.0 V 6 engine, elec windows, 99854 miles good; 2003 Ford F250 Super Duty 4x4 pickup w/Winkel flat bed, automatic, V10 Triton engine, 77,500 miles; 1974 Ford F7000 2 1/2 ton truck, 8 cy, 4 speed, 2 speed, 15 1/2" steel box w/hoist 38829 miles (miles appear to be right); 1970 IHC 2 1/2 ton truck, 8 cy, 4 speed, 2 speed, 15 1/2" box w/hoist, 41,150 miles (miles appear to be right).

MACHINERY
2008 Great Plains 6544 Series VII 44' field cultivator w/4 row spike harrow, float hitch; 2003 Great Plains 30' disc drill 36 hole 10"; John Deere 637 Wheatland tandem disc 26 1/2' White 8 row 6100 planter w/fertilizer PTO pump markers (partial rebuilt last 3 years); 2009 Landoll 1632 pull type grader scraper w/concrete weight; Land Pride 8' pull type box blade; 1997 RW 907 Tonutti 3 pt. rake; Sunflower 16' offset disc; Sunflower 16' pull type chisel; 3 pt. 150 gal sprayer; 3 pt. 8' blade.

TRAILERS & TOOLS
1999 Kiefer goose neck 21' tandem axle covered stock trailer, 7000 lb axles, center gate; 1996 Hay Van goose neck 6 bale trailer; 3 pt. bale fork; bale spear for loader; 4 wheel flat bed trailer; JD 4 wheel trailer chassis; 2-2 wheel pickup bed trailers; portable loading chute; shop built cattle panel trailer; 2 Brock 3 ring bulk bins w/augers; 2 sided creep feeder; Win Power PTO generator on trailer has been in fire; LB White heaters; 1/2" drill press; assortment of other tools; 7 hog sheds; cattle & hog panels; bale feeders; electric fence posts; 150 gal water tank; JD JX75 push lawn mower; large pile of iron; assortment of other small items.

Note: We will be on machinery around 12:30. The tractors, trucks, drill & planter have been in the shed. The machinery is in good condition. Check our web site for pictures at www.thummelauction.com.

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

Cargill enters agreement with Performance Livestock Analytics to create proprietary advanced feedlot analytics

Cargill and Performance Livestock Analytics, Inc. (PLA) are partnering to bring new data analytics to cattle production. PLA's Performance Beef™ is now enhanced with the Cargill MAX® system for beef, creating an advanced and more robust feedlot system, Performance Beef™ MAX®. This new version is exclusive to Cargill and its customers. Performance Beef™ MAX® leverages real-time feed ration information, backed by growth models from Cargill Animal Nutrition, to help farmer-feeders and feedlots introduce greater performance pre-

dictability and improved efficiency into their feeding program. "We are excited for the opportunity to bring the power of real-time data analytics and performance prediction to the industry," said Duane Theunick, director of feedlot nutrition, Cargill Animal Nutrition. "Combining our MAX® system with the Performance Beef™ platform creates a unique and proprietary set of tools that will empower producers to know more about cattle feed efficiency and performance with unprecedented accuracy and ease of use."

Livestock producers run on competitive margins. The Performance Beef™ MAX® software application provides the automation and the decision analytics needed to help Cargill customers become more successful cattle feeders. Cargill customers can now completely automate data input and collection of their feeding programs interfaced with Cargill's MAX® feeding system. These enhancements save time, increase accuracy, and improve cattle performance. Performance Beef™ MAX® utilizes the automated on-farm data and growth

modeling to create accurate, easy to use performance reports resulting in more informed and timely decisions regarding diet changes, feeding protocol, and market timing. "The experience of our in-house staff of farmers, computer, and data scientists allowed Performance Livestock Analytics to develop Performance Beef™ into a scalable, high-performance solution that automates data collection and provides real-time analytics," said PLA's CEO Dane Kuper. "Partnering with Cargill Animal Nutrition gives our customers more options and shows

the power and flexibility of the Performance Beef platform. The predictive performance analytics of Performance Beef™ MAX® gives cattle feeders the information they need to optimize feeding and marketing of their cattle." The Performance Beef™ platform is a leading business operating system in the livestock industry. The software subscription service helps livestock producers automate their feed process and eliminates tedious data entry. Performance Beef™ MAX® unlocks decision analytics through simple, easy-to-use software apps, allowing livestock producers to manage all finan-

cial, operational, and performance data relative to their cattle operation. Coupled with best-in-class nutritional consultation services from Cargill Animal Nutrition, producers will now be better equipped for improved cattle performance and business success. This partnership with PLA is another example of the commitment by Cargill Animal Nutrition to using technology, data and analytics to better serve its customers. Over the last few months, Cargill has introduced Dairy Entelgen™, TechBro Flex™ for broilers, and Reveal®, a real-time forage analysis system.

Rotational grazing to be highlighted at Winter Forage Conference, December 12 in Salina

Kansas State University and the Kansas Forage and Grassland Council (KSFGC) will hold its Winter Forage Conference and KSFGC Annual Meeting on Tuesday, December 12, 2017, at the Webster Conference Center, 2601 North Ohio, Salina. Registration begins at 8:30 a.m. and the conference kicks off at 9:00 a.m. Rotational Grazing will be the focus of one tract with presentations from NRCS Specialists Dusty Tacha and Doug

Spencer, along with UNL Range Beef Nutritionist Dr. Travis Mulliniks. The tract will be topped off with Grower Panel of Kansas ranchers. Other breakout sessions from Kansas State University and industry experts will cover topics including: Alfalfa Pests & Predators, Non-GMO Alfalfa and an Alfalfa Industry Update from Beth Nelson, President of the National Alfalfa & Forage Alliance.

"Current and Future Kansas Forage Trends" will be the keynote address by Dr. Mike Brouk, Professor, Animal Science & Industry, Kansas State University. Conference Registration is open to the public and is free to 2018 Kansas Forage and Grassland Council members. For non-members and those that have not yet renewed for 2018, the cost is \$45, which includes both KSFGC and AFGC mem-

bership, along with subscriptions to both *Progressive Forage Grower* and *Hay & Forage* magazines. More information regarding the conference including registration (which is encouraged for planning and meal counts), the agenda and information for businesses, vendors, and forage industry boosters can be found at <https://ksfgc.org/wkfc/>. Please direct any questions to Mark Nelson at info@ksfgc.org.



Circle S Ranch, Canton, showed the reserve grand champion Gelbvieh heifer at the American Royal Gelbvieh and Balancer Show. CIRS 22YE is the daughter of DCSF Post Rock Power Built 37B8.

Farmers & Ranchers

AUCTIONS EVERY MONDAY & THURSDAY

Selling Hogs & Cattle every Monday

RECEIPTS FOR THE WEEK TOTALED 5,137 CATTLE AND 125 HOGS.

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

<p style="text-align: center;">SPECIAL COW SALES</p> <p style="text-align: center;">Tuesday, December 19 Tuesday, January 16</p> <p style="text-align: center;">* Buffalo Sale: Saturday, December 2</p>	<p style="text-align: center;">SPECIAL Weaned/Vacc CALF SALES</p> <p style="text-align: center;">Tuesday, December 5 Tuesday, January 2 Tuesday, February 6</p>
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STEERS		37 blk	Tescott	698@158.75
300-400	\$196.00 - \$208.00	23 blk	Ellsworth	656@158.75
400-500	\$183.00 - \$196.00	8 blk	Tampa	537@158.00
500-600	\$171.50 - \$181.50	8 blk	Tampa	537@158.00
600-700	\$164.00 - \$178.50	61 mix	Jay, OK	608@157.50
700-800	\$152.00 - \$166.50	12 blk	Tescott	629@157.00
800-900	\$155.00 - \$164.35	3 blk	Ellsworth	547@156.00
900-1000	\$146.00 - \$159.25	22 mix	Tescott	762@156.00
HEIFERS		13 blk	Solomon	736@155.50
300-400	\$170.00 - \$176.00	11 mix	Bennington	719@155.50
400-500	\$169.00 - \$163.50	16 blk	Brookville	466@155.00
500-600	\$152.00 - \$162.50	14 blk	Brookville	543@154.00
600-700	\$150.00 - \$158.75	4 mix	Miltonvale	626@154.00
700-800	\$142.00 - \$156.00	3 blk	Little River	657@153.50
800-900	\$140.00 - \$151.00	7 mix	Miltonvale	768@153.25
900-1,000	\$128.00 - \$139.50	27 mix	Assaria	635@152.50
		14 blk	Falun	587@152.00
		4 blk	Ramona	703@152.00
		12 blk	Luray	648@151.50
		7 blk	Miltonvale	849@151.00
		5 mix	Durham	761@150.50
		19 blk	Brookville	603@150.00
		8 blk	Delphos	868@150.00
		69 mix	Salina	152@150.00
		6 blk	Hillsboro	629@149.50
		14 red	Clifton	597@149.50
		22 mix	Clay Center	775@149.50
		17 blk	Abilene	781@149.50
		41 mix	Abilene	850@147.75
		10 mix	Moundridge	811@145.00
		12 mix	Oakhill	903@139.50

STEERS		2 mix	Delphos	270@550.00/HD
4 blk	Beverly	2 blk	Abilene	250@510.00/HD
4 blk	Bennington	5 blk	Abilene	299@500.00/HD
5 blk	Florence	2 blk	Belvue	273@485.00/HD
3 blk	Florence	1 blk	Gypsum	240@475.00/HD
3 blk	Little River	1 blk	Abilene	240@460.00/HD
4 blk	Canton	1 mix	Delphos	130@360.00/HD
15 blk	Beverly	1 mix	Delphos	160@350.00/HD
28 blk	Lincoln	1 blk	New Cambria	55@135.00/HD
12 blk	Barnard	CALVES		
8 blk	Assaria	2 mix	Delphos	270@550.00/HD
6 blk	Brookville	2 blk	Abilene	250@510.00/HD
17 blk	Falun	5 blk	Abilene	299@500.00/HD
13 blk	Bushon	2 blk	Belvue	273@485.00/HD
28 blk	Beverly	1 blk	Gypsum	240@475.00/HD
15 mix	Brookville	1 blk	Abilene	240@460.00/HD
11 blk	Beloit	1 mix	Delphos	130@360.00/HD
13 blk	Ellsworth	1 mix	Delphos	160@350.00/HD
13 blk	Hays	1 blk	New Cambria	55@135.00/HD
13 mix	Brookville	COWS		
8 blk	Assaria	1 blk	Hillsboro	1825@71.50
6 blk	Luray	5 blk	Minneapolis	1541@70.25
6 blk	Hillsboro	1 char	New Cambria	1655@70.00
7 blk	Ellsworth	1 red	Newton	1730@70.00
19 blk	Beverly	1 blk	Longford	1605@69.50
19 blk	Beloit	1 blk	Salina	1715@69.50
18 blk	Ellsworth	1 blk	Assaria	1545@69.50
40 mix	Assaria	2 blk	Minneapolis	1533@69.00
12 mix	Assaria	1 blk	Hillsboro	1545@69.00
36 blk	Tescott	1 blk	Assaria	1490@69.00
15 mix	Luray	1 blk	Tampa	1690@10.50
20 blk	Brookville	1 blk	Tampa	1580@10.00
27 mix	Tescott	BULLS		
60 mix	Longton	1 blk	Lehigh	2180@87.00
6 blk	Durham	1 blk	Lehigh	2015@77.00
28 blk	Falun	1 blk	Clafin	2165@76.50
29 blk	McPherson	1 red	Hutchinson	1905@75.00
10 mix	Barnard	PIGS		
26 blk	Lyons	27 mix	Hays	55@21.00
40 mix	Assaria	SOWS		
20 mix	McPherson	6 wht	Lincolnville	713@40.00
39 mix	McPherson	1 wht	Lincolnville	595@39.50
12 blk	Salina	HOGS		
16 blk	Lyons	6 mix	Abilene	258@41.50
100 blk	Morrowville	15 mix	Belle Plain	255@40.75
		2 mix	Solomon	258@40.75
		6 mix	Lincolnville	295@39.00

IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- 6'8" X 24' GOOSENECK STOCK TRAILER METAL TOP
- 6'8" X 24' GOOSENECK STOCK TRAILER
- 6'8" X 24' GR Stock Trailer Metal Top

November 1st: Farmers & Ranchers switched to LMA Online Auctions

Go to LMAAuctions.com

If you were an approved bidder on Cattle USA, your account has been switched over, please log in using the same email and password. If you were just a user watching on the internet, not approved to bid, you will have to create a new user account to watch online at LMAAuctions.com

Having Trouble Logging in or Still Have Questions? Please call 1 (800) 821-2048

No Sale

Thursday, November 23rd!

Happy Thanksgiving from F&R!

EARLY CONSIGNMENTS FOR THURSDAY, NOVEMBER 30:

30 Steers and Heifers, weaned and fall vacc. 450-575. 100 Steers and Heifers, Black/BWF, Home Raised, Fall Vacc., 400-700. 17 Steers, Off the cow, Home Raised, Spring Vacc. 650-700.

EARLY CONSIGNMENTS FOR TUESDAY, DECEMBER 5 Special Weaned/Vacc. Sale

35 Steers and Heifers, weaned 60+ days, 3 round vacc, 550-675. 9 Char X Steers and Heifers, 650-750. 9 Steers and Heifers, 650. 9 Steers and Heifers 700-750. 18 Steers and Heifers, Black, Angus Source, 600-700. 22 Black Steers and Heifers, 600. 17 Steers and Heifers, 600-700. 80 Black Steers and Heifers, Home Raised, Hot Wire Broke, 400-500. 20 Steers, Weaned and Vacc, 600-700. 50 Steers and Heifers, Black/BWF, Weaned, Vacc, Home Raised, 500-600. 40 Red and Black Angus Steers and Heifers, Home Raised, 550-650. 40 Steers and Heifers, 2nd Round Vacc, WF/BWF, and RWF, 500-600. 220 Steers and Heifers, 600-700. 240 Black Steers and Heifers 600-800. 60 Black/BWF, Steers and Heifers, Home Raised, No implants, 550-650. 35 Black Steers, 600-700. 55 Char/Ang. Steer and Heifers, off rye, 600-700. 75 Steers and Heifers, 600-800. 100 Black Steers and Heifers, 600-700. 70 Steers and Heifers, Black/BWF, Weaned 50 Days, Wormed, Steers implanted, 2nd Round Vacc, 600. 14 Steers and Heifers, Black, Weaned 45 days, 2nd Round Vacc, Bunk Broke, Poured, 600-700. 37 Steers and Heifers, Black 550-600. 19 Steers and Heifers, Black 650. 8 Steers and Heifers, Black, 650. 40 Steers and Heifers, Black/BWF, weaned 35 days, 600-800. 40 Steers and Heifers, Black and Bwf, Weaned 35 Days 600-800. 15 Steers and Heifers, Open, 450-600. 30 Steers and Heifers, Home Raised, weaned 90 days. 150 Steers and Heifers, Weaned 60 Plus Days, Home Raised, 575-650. 118 Black Steers, 550-700. 120 Black Steers, 550-700. 25 Steers and Heifers, Weaned and Vacc Oct 6th, 400-550. 43 Steers and Heifers, Black, Home Raised, 600-700. 100 Steers and Heifer, Mostly Black, Weaned, Vacc. 500-700. 50 Heifers, weaned, 500-600. 60 Steers and Heifers 400-750. 100 Steers and Hieifers, Black, Weaned 45 days, Vacc. 600. 80 Steers and Heifers, Black, weaned 45 days, vacc, 550-650. 40 Steers, Red Angus Sired, weaned 45 days, vacc, no implants 600-700. 35 Red Angus Steers, Home Raised, 600. 35 Steers, Red Angus, Home Raised, 600. 45 Steers and Heifers, Black, Vacc, Weaned 50+ days, Open, 500-650.

EARLY CONSIGNMENTS FOR THURSDAY DECEMBER 7th:

60 Mostly Steers, Home Raised, Long time Weaned, Vacc. 700-750. 80 Black and BWF Steers and Heifers, Home Raised, Weaned and Vacc, 550-700. 12 Steers and Heifers, Home Raised, Vacc, Weaned, Running Out, 650-550. 12 Steers and Heifers, Home Raised, Vacc, Weaned, Running out, 400-600. 24 Steers and Heifers, Home Raised, Vacc, Weaned, Running out, 400-600. 20 Steers and Heifers, Weaned, 2nd Round Vacc, 700-800. 74 Steers and Heifers, Black, Home Raised, Weaned, Vacc, 500-700.

For information or estimates, contact:

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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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