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A team pitched-in to help demonstrate how square hay bales were produced in days gone by, propelled by steam engines, during Prairie Plowing Days on site of the Cloud County Fair in Concordia on Saturday, July 29th. Mike Elledge, left, who lives north of Green, helps operate his stationary McCormick Deering hay baler, assisted by Kurt Kocher, event co-organizer, right, and David Jowett of Odessa, Texas, center. The hay baler was connected by a drive belt to a 1914 Nichols & Shepard Company steam engine, operated by Don Blecha of Munden.



Two steam engines take off at Prairie Plowing Days at the Cloud County Fair. On the right is a restored 1914 Nichols & Shepard Company steam engine, operated by Don Blecha of Munden. Blecha bought it in 1976 at an estate auction. His grandfather previously owned it. On the left is a 1923 Russell Company steam engine owned by Bud Hefner of Concordia, but operated by Dean Gipe, Salina.

## Steam engines demonstrated at Prairie Plowing Days in Concordia

By Amy G. Hadachek

They blew off a lot of steam as engineers showcased 100-year old steam engines and relived pioneer days, in a field on the Cloud County Fairgrounds in Concordia Saturday morning, July 29th. Enthusiastic on-lookers at the second annual Prairie Plowing Days watched a team presentation of how square bales were created a century ago. Team members used a pitchfork to pull hay out of a large round bale, and stuffed it into an antique baler owned by Mike Elledge of Green. A drive belt from the stationary baler was connected to a restored

1914 Nichols and Shepard Company steam engine owned and driven by Don Blecha of Munden.

"We're here, pardon the pun, to keep the spark alive," said co-organizer Kurt Kocher, who hosted the two-day weekend event with Brad Smith and Cloud County Tourism.

Although the antique steam engines set a Guinness World Record last year during the inaugural event, for this year's Prairie Plowing Days, organizers set up the events simply for the enjoyable experience. Engineers traveled to Concordia from across north central

Kansas, Nebraska and Missouri.

"It's the people and the hobby that make it go around," said Kocher who farms wheat, corn, soybeans, alfalfa and bales oats near Glasco. Smith is from Scotts-ville. "It's a passion. For our engineers and owners – it's their passion. Just like a person with race cars or a horse. It's exciting to them," he said.

It was also exciting for volunteer Dennis Halstead of Concordia. "It's great seeing the people, the different machines here, and being part of something good," he said.

"Dennis and other volun-

teers are so important. Dennis is in charge of parking, and bringing in coal, or does whatever they need," said Kocher.

A feeling of respect, appreciation and pride was interwoven throughout the event.

"This 1914 steam engine used to be my grandfather's," relayed Blecha about his steam engine. "I bought it at an estate auction in 1976, and restored it in 1980."

Dean Gipe of Salina enjoyed displaying a 1923 Russell Company 20/40 horsepower steam engine, owned by Bud Hefner of Concordia. "20/40 means 20 horsepower on the ground, 40 on the belt," explained Gipe, who also attended last year's Prairie Plowing Days.

Proudly exhibiting his steam engine, Cliff Silsby of Auburn brought a 1924 Ault-

man Taylor, which he has owned for 25 years. "I've only taken it to two shows, including this one," said Silsby.

Coinciding with the county fair this year, Prairie Plowing Days offered a unique category to fair-goers, as the fair wrapped up over the weekend. Kocher pointed out that hosting the steam engines at the farm last year had been a large project. "Also, there's a mix of folks who go to the fair, between seeing 4-H livestock, the carnival, entertainment and we were looking forward to having them walk over to see what we're doing."

Just before the big weekend got under way, on Friday night, July 28th, engineers began filling the steam engines with water to warm them up. "These engines each hold 300 gallons of

water. The steam engines sat overnight to bring water up to 150 degrees...and when they reached 212 degrees, that temperature created steam," explained Kocher. The steam engines were heated by coal and wood.

While people have spotted steam engines at other events, Kocher noted those steam engines were usually parked. "It was Brad, who said some shows are static, and that nobody works the engines like they did 100 years ago. So we thought it was a novel idea to try, and we did it last year."

Crowds turned out for the first annual event in 2016. "That sparked the interest. This year however, we decided to do it in conjunction with the Cloud County Fair, and the Heartland Car Club."

It certainly has picked up steam.

## Roberts to attend Kansas Ag Growth Summit in Manhattan

Sen. Pat Roberts, chairman of the U.S. Senate Committee on Agriculture, Nutri-

tion and Forestry, will be a special guest at the Kansas Governor's Summit on Agricultural Growth on Thursday, Aug. 24, 2017. Roberts has spent more than 30 years serving the needs of Kansas, and is a respected advocate for the agriculture industry. Kansas is fortunate to be represented by a leader of this caliber, and his support of the Ag Growth Summit emphasizes the importance of agricultural growth within the state.

Roberts will join agriculture leaders from across the state at the second-annual event. The 2017 Summit will focus on sector-specific desired growth outcomes for 19 sectors of agriculture, ranging from beef and wheat to specialty livestock and unmanned aerial systems, as well as industry-wide topics that affect all sectors.

The Ag Growth Summit

will be held at the Manhattan Conference Center at the Hilton Garden Inn. Registration will begin at 8:00 a.m. and the program will run from 8:30 a.m. to 3:00 p.m. including a complimentary lunch. This year's Summit will also include an evening social event on Wednesday, Aug. 23, beginning at 6:00 p.m. at the Stanley Stout Center on the north side of the K-State campus.

Participation in the Summit and the social is free and open to the public, but registration is requested. Please register by August 10 to guarantee lunch at the Summit and/or dinner at the social event. More information about the Summit, including a link to the registration site, can be found at [agriculture.ks.gov/summit](http://agriculture.ks.gov/summit). If you have questions about the Summit, call KDA at 785-564-6700 or email [Taylor.Fry@ks.gov](mailto:Taylor.Fry@ks.gov).

## Getting ready for the show



Wildcat 4-H Club members Tyler and Nelsa Beckman work together to get their goat ready for the show ring at the Riley County Fair. Photo by Kevin Macy





## Safety in the sun

By John Schlageck, Kansas Farm Bureau  
My dermatologist recently shared with me a list of five ways to die on a golf course. The five ways in-

clude being hit by a golf ball, run over by a golf cart, whacked by a golf club, struck by lightning and forgetting your hat.

While none of these possibilities is pleasant to contemplate, the threat of skin cancer is real and should be considered carefully.

Every year one million new cases of skin cancer are detected, according to the American Academy of Dermatology. One out of five people in this country develops skin cancer during his/her lifetime.

Americans love vacations with their families – many of these trips include trips to the beach or outdoor amusement parks. Many others work for long hours in the sun during the summer months – farmers, ranchers, construction workers and amusement park attendants.

If you spend several hours in the sun, protect yourself. Avoid the midday sun if possible. Cover up. Always wear a hat. Work in the shade whenever possible. And don't forget to wear sunscreen.

Melanoma is the deadliest form of skin cancer. One person dies every hour from this disease in the United

States, according to the American Academy of Dermatology.

Fortunately, melanoma can be completely cured if it's caught early enough. Dermatologists advise us to examine our skin regularly.

If you find a blemish larger than a pencil eraser, multi-colored, asymmetrical or irregular at the edges, you may have melanoma and should see your dermatologist.

While we should protect ourselves from potential skin cancer, we should be every bit as aware of this danger for our children. Overexposure to sunlight during childhood will affect children for the rest of their lives.

Studies show that damage from the sun to a child's skin can actually increase the odds that he or she will develop skin cancer as an adult.

The American Academy of Dermatology estimates 80 percent of a person's total lifetime sun exposure occurs in the first 18 years.

Protect your children. Cover them up. Teach them to wear long-sleeved cotton shirts that breathe. Make sure they wear head protection at all times. Make wearing sunscreen part of the ritual for gearing up for the sun.

While skin cancer can kill you, it's much more likely to disfigure you. Each year, thousands of Americans lose chunks of their skin to this disease. Some people lose their nose; others may lose their ears, while others may get off with only the loss of an eyebrow.

Examine your skin regularly, at least once a week. Look for warning signs.

If you find anything bleeding, crusting or not healing, see your dermatologist immediately. And if you want more information on how to identify skin cancer visit [www.aad.org](http://www.aad.org).

It's all right to enjoy the sun and spend time outside. Remember these common-sense suggestions, have fun, and like everything else in life – enjoy the sun in moderation.

*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.*



## Prairie Ponderings

By Donna Sullivan

The county fairs are beginning to wind down, leaving families with a couple of weeks before school starts to catch their breath and maybe sneak in a vacation or at least a short getaway.

Along with the fairs and the rodeos that often come with them is the time-honored tradition that has been affectionately dubbed "Community Sanctioned Child Abuse." That is the mutton bustin' event. In all the years we did 4-H and went to rodeos, I think we only had one child compete in the event one time. Of course, I could be wrong because that was a long time ago and memories can get a little fuzzy. But I believe our second son gave it a whirl and lasted all of about three seconds.

But now three of our six grandchildren are of mutton bustin' age. Two more could be, but they don't live around here any more and are thus spared the peer pressure of climbing on Ovis Aries and holding on for dear life. They have tried the calf scramble a couple of times, though.

Of the three that are still candidates for the event, our oldest granddaughter tried it once then declared it not for her. She'll stick to horse events, thank you very much. The grandson that is next in line is also happy on a horse but decided there was no need to add riding a sheep to his resume, so count him out. But the younger of the two boys seems to have mutton bustin' in his blood (a little of which may have gotten spilled during a couple of his rides).

For the Clay County Fair, his family had arrived back in town from a trip to Disney World in Florida just in time for him to change into his cowboy

clothes and head to the fairgrounds to get registered. They were pretty exhausted after a week at the Magic Kingdom, but there was no dissuading him. While he was waiting he watched the rodeo, laughed at the clown, got an autograph from Miss Rodeo K-State and tried to teach me the fine art of bottle flipping (I'll pause here to apologize to the innocent bystanders who may or may not have gotten hit. Bottle flipping is not something I will be adding to MY resume). His sister took part in the calf scramble, but he was saving his energy for The Big Event.

At last it was his turn. I would like to say that he rode that sheep for the full six seconds then gracefully dismounted in all his glory to a cheering crowd. That, however, is not what happened. He climbed aboard and held on for all he was worth. They opened the gate and the sheep shot out like a cotton ball fired from a cannon. He promptly fell off and the sheep rolled him in a cloud of dust, then proceeded to step on his leg.

It was a sad and disappointed little cowboy that limped out of the arena and came back to the bleachers. He joined the ranks of all the others that met similar fates that evening. Only two or three held on for a full ride, as is usually the case.

"I'm just proud of you for trying," I said, in an effort to cheer him up.

When that didn't work, I tried the bottle flipping thing again.

And that, my friends, is where this tale shall end... in a feeble effort to protect the well-intentioned, but unfortunately not-so-innocent.



A few days ago, a picture of a 4-H'er with his steer popped up on my Facebook feed. The young man has his arms around his steer and is obviously upset at the idea of selling him. I thought it was a great picture, capturing the emotion behind 4-H market livestock projects. It brought up a lot of memories. Selling an animal that you have put so much work into is not easy and I am sure it will not be easy for us to put Tatum's steers on the truck at the fair.

Tatum's steers this year are named Bert and Ernie and they have been pretty good steers throughout the last nine months. When you care for animals it is not hard to get attached to them, especially when their personalities have been as good as Bert and Ernie's have been. For the most part, they have been easy to take care of, even if they were a little lazy and ornery at times. The last day of the fair will be tough for us even though we have been through it many times. I fear that I might have to find a pair of dark glasses to wear as I hand the steers over. It doesn't get any easier whether it is your first time or your... well, let's just say I have done it several times.

The fact that it does not get easier is a good thing, but it is the hardest thing for our non-farm friends to understand. I saw a piece on the local news and the family said that they had gotten many responses back from the picture, some good, some not so good. I went back and read some of the posts and it was as I expected. Many posts were sympathetic; they had been there, felt the pain and understood. Others ranged from disbelief to outright anger.

The anger is hard for us to understand as farmers and ranchers; this is all part of the circle of life that we have been raised in and is part of our inner being as a livestock producer. We raise our animals understanding that it is our duty to provide them the best care and attention we can. However, we know the end point and understand why we raise livestock. They are here to provide us with food. It is the hardest part of this cycle to understand. I admit that I feel a little sad each time I drop a load of lambs off at the locker plant. That is good, empathy is normal and it means that we care deeply about our animals

I also understand why it is so hard for

our non-farming and ranching cousins to grasp how we can do this. Their only point of reference probably is a pet. They did not grow up with the deep understanding of the cycle of life that we have and we must understand this, appreciate it and help them to see things from our perspective.

I am worried about some of the stronger responses. The idea to threaten, belittle and criticize something you don't understand is of concern to say the least. I know it is a bad by-product of social media; it is easier to be mean and nasty when you are somewhat anonymous and that is a sad statement about our society. It is also troubling when it comes to our profession and way of life. We need to make sure our consumer and the public in general understand how we raise our livestock and that we genuinely care about the well-being of our animals. We also need to make sure they understand the difference between pets and livestock meant for food and more importantly, the line between animals and people.

It is a line that is becoming blurrier and less defined over time. This is because of the disconnect from farm and ranch to the urban dinner plate. With fewer direct connections between country and city cousins we need to make sure we reach out and tell our stories and welcome people onto our farms and ranches: either physically or, as this picture did, virtually. I am so glad this picture was shared and that is reached so many people. While it may have brought out the worst in some, it also opened an opportunity to have a candid discussion and allows us to share something so basic and valuable that all involved in youth livestock projects understand.

I was encouraged to see the response of so many to try to help explain why this was important and, in the end, necessary. The overwhelming majority I saw were positive, understanding and patient with their responses and that is what we need. This picture will be played out many times in the next few weeks and I hope that we can use it as an important teaching moment to share just how deeply we care for our animals and how we pass that compassion on to the next generation of farmers and ranchers.



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# FDA authorizes qualified health claim for soy oil

Soybean oil can be part of a healthy diet. Now soybean farmers – and food manufacturers alike – can proudly tout its heart-health benefits. Thanks to a petition for a qualified health claim just authorized by the U.S. Food and Drug Association (FDA), soybean oil – and products containing soybean oil – can use a heart-health claim on packaging, menus and more.

The claim is similar to those associated with canola and olive oil and states that eating 1.5 tablespoons of soybean oil daily may reduce the risk of coronary heart disease when replacing saturated fat and not increasing calories. The FDA announced that it had no objections to the claim for foods that qualify. The application for the claim was submitted by Bunge, one of the leading soybean processors in the country.

“The food industry is by far our largest customer for soybean oil and by submitting this claim Bunge is really looking out for soybean farmers and our long-term profitability,” says John Motter, United Soybean Board chairman and soybean farmer from Jenera, Ohio. “This claim really helps U.S. soybean farmers maintain their competitiveness in this critical market and helps us compete with other oils that have become synonymous with heart health.”

The American Heart Association recently went on record regarding the cardiovascular benefits of the fats found in soybean oil.

“We conclude strongly

that lowering intake of saturated fat and replacing it with unsaturated fats, especially polyunsaturated fats, like those found in soybean oil, will lower the incidence of cardiovascular disease,” said Penny M. Kris-Etherton, co-author of “Dietary Fats and Cardiovascular Disease, A Presidential Advisory from the American Heart Association” published in June, 2017.

These positive movements for soybean oil will help in U.S. markets primarily, but the checkoff will use the claim to position U.S. soy in international markets where health-conscious decisions are also being made.

As for the U.S., food companies interested in using the claim on food products with at least 5.0 grams of soybean oil per serving can use the full statement below when also meeting applicable criteria for saturated and trans fat, cholesterol and sodium, and in some cases the presence of one of six beneficial nutrients identified by FDA. The authorized claim language is as follows:

“Supportive but not conclusive scientific evidence suggests that eating about 1½ tablespoons (20.5 grams) daily of soybean oil, which contains unsaturated fat, may reduce the risk of coronary heart disease. To achieve this possible benefit, soybean oil is to replace saturated fat and not increase the total number of calories you eat in a day. One serving of this product contains [x] grams of soy-

bean oil.”

American Soybean Association president Ron Moore, a farmer from Rosville, Ill., applauded the news in a statement.

“The cooking oil market is extremely important for U.S. soybean farmers, and the newly approved health claim will enable manufacturers of soybean oil to communicate to consumers about the heart-healthy benefits of soybean oil. As we compete within the market against other cooking oils, having FDA recognize the ability of soybean oil to provide a superior omega-3 fatty acid profile while also lowering bad cholesterol levels is a benefit to consumers and to producers alike. Heart-healthy soybean oil creates a potential for growth in a time when net farm income is down. This development is a welcome one, and we congratulate the Bunge team for their work in seeing it to fruition.”



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SOIL HEALTH WORKSHOP

August 29, 2017 - 9:00 a.m.—3 p.m.; Plot Tour to Follow at 3:30 p.m.

Family Life Center, EUM Church, 227 Pennsylvania, Holton, KS



David Brandt farms 1,150 acres in central Ohio's Fairfield County. He began no-till farming in 1971 and has been using cover crops since 1978. He plants various blends of cover crops to find out what benefits they provide to improve soil.



Abe Collins of Winoski, Vermont is a grazer and consultant who works with land-managers to grow topsoil, livestock and crops and design and build water secure agricultural landscapes. He is co-founder of LandStream, a startup building a collaboration platform for achieving deep-topsoil watersheds with full ecological accounting and quantification of watershed-services demand and supply.

9 a.m. David Brandt - Cover crops as an anchor of a diverse crop rotation, continuous no-till system to increase organic matter, sharply reduce fertilizer costs, eliminate soil compaction, and increase water infiltration.

10:30 a.m. Break

10:40 a.m. Abe Collins - Part 1— Discuss tools and potential benefits, challenges and scenarios in which farmers' incomes are increased and cities' costs are decreased when policy and infrastructure can support payment to farmers for the quantified provision of watershed services like flooding-reduction, groundwater recharge and purification of ground and surface-water.

11:45 a.m. Lunch, Compliments of Arbor Sod & Seeding

12:30 p.m. David Brandt - Continue topic

1:30 p.m. Abe Collins - Part 2 - Discussion of the New Soil Matrix, a thinking-aid for managing grazing and cropping to grow new topsoil.

2:30 p.m. Shane New - Soil Biology

3:00 p.m. Questions and Answers

3:30 p.m. Plot Tour - Shane New's Farm - 11760 254th Rd Holton

Meal and refreshments are provided free compliments of Arbor Sod & Seeding, the Jackson County Conservation District and local sponsors. Call (785) 364-3329, ext. 136 by August 23rd to reserve your meal and seating.

If you need accommodation, please call the conservation district office at (785) 364-3329, ext. 136.

The U.S. Department of Agriculture is an equal opportunity employer and provider.

Sponsors Include: Jackson County Conservation District, KDA-Division of Conservation, NRCS, Kansas Department of Health and Environment, SARE, and Arbor Sod & Seeding. \*Funding provided by the KDA-DOC through appropriation from the Kansas Water Plan.\*

# KCA hosts final regional meeting of summer in McPherson in July

Kansas Cattlemen's Association (KCA) in conjunction with Zoetis, and Landon and Shelby Shaw, hosted a regional cattlemen's meeting in McPherson to discuss industry topics in early July. The meeting took place at the McPherson Opera House. A free USA Beef dinner was provided to those who attended the meeting.

KCA provided organization and industry information highlighting the difference between KCA and other industry organizations. “KCA operates strictly at the direction of our membership, without influence from outside corporations and organizations,” stated Tyler Dupy, KCA Executive Director. Dupy highlighted variances in specific policies including Beef Checkoff Reform, Country of Origin Labeling, Enhanced GIPSA rules, Corporate Farming Ban, and Enhanced Competition.

Prime event sponsor Zoetis presented a discussion with Dr. Mike Wells, DVM, on herd wellness. Whether working a calf crop, processing stockers, or running a full feedlot, SYNOVEX® implants protect the full production chain. The full range of SYNOVEX implant formulations help to achieve the specific performance and marketing goals of each operation. Producers should consult their veterinarian to determine which SYNOVEX implant is best for their operation. When working cattle to grass protocols, the use of Inforce 3, an intranasal BRD vaccine that contains IBR, PI3 and BRSV virals with OneShotBVD (M. Hemolytica plus BVD Type 1 and 2) can quickly combat harmful BRD pathogens and give calves a healthy start. Inforce 3 and OneShotBVD offer the highest label claims in their categories. Dr. Wells finished his presentation with a Zoetis-sponsored Question and Answer series with the audience.

Mark Kinoff of Ceres Hedge provided an overview of dynamic hedging. Purchasers with traditional procurement strategies must therefore balance their immediate needs with longer term price fluctuation risks. They are extremely vulnerable to price volatility. Agricultural prices are experiencing unprecedented volatility, making it essential for any business, with exposure, to hedge against risk. We must be prepared to ride this roller-coaster. Hedging can lock in advantageous prices without lowering product quality or limiting operational flexibility. Hedging allows for a more consistent and potentially greatly increased net profit margin. The more optimally a producer hedges output, the higher the commodity return.

Proud sponsors of the event included: Zoetis, Countryside Feed LLC, A5 Western, Team Marketing Alliance, Allan and Deanna Sents, SweetPro Feeds, PrairieLand Partners – John Deere, Animal Health Center of Marion County, Inc., Farmers Alliance Mutual Ins. Co., Zeitlow Distributing Co., Ehling Custom Mills Inc., Central Livestock, Liquid Plus Feeds, First Bank Kansas, Central Prairie COOP, SmartLic, Ceres Hedge, Landon and Shelby Shaw, and Orscheln Farm & Home.

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Lydia Miller, Westphalia, Wins Weekly  
 Grass & Grain Recipe Contest

Lydia Miller, Westphalia: “Crushed ginger-snap cookies form the full-flavored ‘shell’ over vanilla ice cream that’s dressed up with chopped toffee candy bars.”

CARAMEL TOFFEE BOMBE

- 3/4 cup crushed gingersnaps (about 14 cookies)
- 3 tablespoons butter, melted
- 1 pint vanilla ice cream, softened
- 2 Heath candy bars (1.4-ounce each), chopped
- 1/3 cup caramel ice cream topping, warmed

Line a 3-cup bowl with plastic wrap. Combine crumbs and butter. Press into bottom and up sides of prepared bowl. In a large mixing bowl beat ice cream and chopped candy bar until blended; spoon into crust. Cover and freeze until firm. Trim edge of crust even with ice cream, if necessary. Invert onto serving platter. Remove wrap. Drizzle with caramel topping. Let stand 10 minutes before cutting. Yield: 4 to 6 servings.

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The winner each week is selected from the recipes printed.

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2. Be sure your name, address

and phone number are on the entry. Please include a street address with your recipe entries. A post office box number is not sufficient for prize delivery. Allow 3-4 weeks for delivery.

3. Send it to: Woman’s Page Editor, Grass & Grain, Box 1009, Manhattan, KS 66505.

OR e-mail at: [auctions@agpress.com](mailto:auctions@agpress.com)

New Research Shows Lean Beef Can Help People Lose Weight And Support A Healthy Heart

New research published in *Obesity Science & Practice* shows that lean beef, as part of a healthy and higher-protein diet, can help people lose weight while maintaining muscle and a healthy heart. “The Beef WISE Study: Beef’s Role in Weight Improvement, Satisfaction, and Energy,” conducted at the University of Colorado Anschutz Health and Wellness Center with a research grant from the beef check-off, adds to the growing body of evidence demonstrating lean beef can contribute to a healthy weight loss diet.

While the popularity of higher-protein diets has grown considerably, there is often guidance telling people to limit red meat as a protein source. However, few studies have compared different high-quality protein sources to understand their effectiveness in a weight loss or maintenance diet. Dr. Drew Sayer, PhD, and his colleagues at the Anschutz Health and Wellness Center, sought to understand the effectiveness of lean beef compared to other protein sources on measures of health — such as weight loss and muscle mass maintenance — in a higher-protein diet, as well as the impact on cardiovascular disease risk factors.

Lean beef as effective as other proteins for weight loss potential

The Beef WISE Study included 99 overweight or obese adults in a comprehensive weight management program called State of Slim. For 16 weeks, they empha-

sized behavioral strategies to make lasting healthful changes in diet and physical activity to promote optimal health and wellness.

In addition to participating in regular moderate-intensity exercise, study participants were separated into two groups that followed the higher-protein diet. One group consumed four or more servings of lean beef each week and the other group was restricted from eating red meat. Subjects in both groups lost equal amounts of body weight and fat mass while preserving muscle.

“A key finding of this study is that 90 to 95 percent of the weight lost came from fat, not muscle,” said Dr. Sayer. “This shows that lean beef doesn’t have to be restricted in a higher-protein diet and is just as effective as other protein choices in supporting healthy weight loss and leaner bodies.”

Growing evidence on lean beef and heart health

All study participants, including those who consumed lean beef four or more times a week as part of the healthy, higher-protein diet in combination with exercise, showed improvements in their total and LDL cholesterol and blood pressure metrics, indicating lean beef did not negatively affect their heart health.

The Beef WISE Study contributes to the growing body of research demonstrating the role of lean beef in heart-healthy diets and strong bodies. This includes a study called BOLD (Beef in an

Optimal Lean Diet), which demonstrated that adding lean beef to the well-established Dietary Approaches to Stop Hypertension (DASH) diet lowered heart disease risk by reducing levels of total and LDL cholesterol.

Protein and weight loss

A substantial body of evidence shows the nutrients in beef, such as high-quality protein, can help satisfy hunger and maintain a healthy weight, build and maintain muscle, and fuel a healthy and active lifestyle. Beef is an important source of nutrients, including iron, zinc and B-vitamins, for optimal health.

“Losing weight is not easy. Neither is maintaining a healthy weight, particularly as we age. We know people succeed most often when they make small changes they can stick with,” said Shalene McNeill, PhD, RD, Executive Director of the Human Nutrition Research Program at National Cattlemen’s Beef Association, a contractor to the beef checkoff. “This study is great news for people who enjoy beef, but might have been told to avoid it while following weight loss diets. It underscores, once again, lean beef can be part of a healthy, higher-protein diet for weight loss.”

People can incorporate 3- to 4-ounce servings of lean beef, supplying about 30 grams of protein, in simple recipes, such as Grilled Southwestern Steak, Classic Beef Kabobs, Hearty Steak and Bean Chili and Beef, Mango & Barley Salad.

For more nutrition information, recipes and resources on all things beef, visit

<http://www.beefitswhatsfordinner.com/proteinsbenefits.aspx>

To learn more about your beef checkoff investment, visit [MyBeefCheckoff.com](http://MyBeefCheckoff.com).

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GRILLED SOUTHWESTERN STEAK WITH COLORFUL VEGETABLES

- 1 beef top round steak, cut 1 inch thick (about 1 1/2 pounds)

Marinade:

- 1/4 cup fresh lime juice
- 1/4 cup prepared mild salsa
- 1 tablespoon chopped garlic
- 1 tablespoon olive oil
- 1 teaspoon ground cumin
- 1/2 teaspoon coarse grind black pepper

Colorful Vegetables:

- 2 tablespoons olive oil
- 1 medium green or red bell pepper, cut into 1/4-inch strips
- 8 ounces button mushrooms, sliced 1/4-inch thick
- 2 cups sliced zucchini, 1/4-inch thick
- 3/4 teaspoon ground cumin
- 1/2 teaspoon salt
- 1/4 teaspoon coarse grind black pepper
- 1 cup finely chopped tomatoes
- 1/4 cup chopped green onions

Combine marinade ingredients in small bowl. Place beef steak and marinade in food-safe plastic bag; turn steak to coat. Close bag securely and marinate in refrigerator 6 hours or as long as overnight, turning occasionally. Remove steak from marinade; discard marinade. Place steak on grid over medium, ash-covered coals. Grill, covered, 12 to 14 minutes (over medium heat on preheated gas grill, 16 to 19 minutes) for medium rare (145 degrees) doneness, turning once. Do not overcook.

Meanwhile prepare Colorful Vegetables. Heat 2 tablespoons olive oil in large non-stick skillet over medium-high heat. Add bell pepper strips; cook and stir 1 to 2 minutes or until crisp-tender. Add mushrooms, zucchini, cumin, salt and black pepper; cook and stir 3 to 4 minutes or until crisp-tender. Add tomato and green onion; cook and stir 1 minute.

Carve steak into thin slices; season with salt, as desired. Serve with Colorful Vegetables. Makes 6 servings

Nutrition information per serving: 277 calories; 13 g fat (3 g saturated fat; 7 g mono-unsaturated fat); 77 mg cholesterol; 303 mg sodium; 8 g carbohydrate; 2.0 g fiber; 33 g protein; 5.2 mg niacin; 0.6 mg vitamin B6; 2.3 mcg vitamin B12; 3.7 mg iron; 31.7 mcg selenium; 4.3 mg zinc; 130.0 mg choline.

This recipe is an excellent source of protein, niacin, vitamin B6, vitamin B12, iron, selenium, zinc and choline.

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Preserving The Harvest: Keeping Up With The Latest Safety Procedures



By Gina Auran

It's that time of year already. Our summer gardens are going crazy and there is lots of wonderful fresh produce to enjoy. Being able to enjoy the wonderful taste of that fresh produce all winter long is possible with just a little work. If you are thinking about preserving some of this year's produce take the time to make sure you are doing it correctly. Because there are constant changes in methods it is important that you keep up with latest information. This can mean the difference between life and death for the friends and family you serve your preserved food to. Just this April in Ohio one woman died and twenty-one other people became sick after eating home canned potatoes that were used to make potato salad. The potato salad was served at a church potluck luncheon. This scenario could have been prevented.

By following a few simple steps, you can make sure that your canned food is safe for everyone.

First start with a canning tested recipe. These recipes have been tested in a lab situation to be sure that all contents of the jar reach the correct temperature for the correct amount of time. While sites like Pinterest and Facebook can have some great recipes these are not the places to get your preservation information. The University of Georgia has a lot of great options as does Kansas State Uni-

versity. The Ball Blue Book of Canning or the USDA Complete Guide to Home Canning are also excellent resources.

Second, DO NOT alter the recipe. If you are making salsa and your family doesn't like peppers, then you cannot just leave them out. That changes the density of the product and the processing time will be off. You can leave the peppers out and safely freeze the salsa, but you cannot can it.

Third, check your elevation. The River Valley District is above 1,000 feet above sea level. This means that you need to use the adjusted times on the recipes for the correct altitude. This is important for making sure the processing time is long enough.

Fourth, use the correct processing method. Low acid foods must be canned in a pressure canner. This includes tomatoes unless the correct amount of some form of acid such as vinegar, lemon juice or citric acid has been added.

Fifth, if you have a dial pressure canner than you need to have your dial checked periodically. Dials can be tested at any River Valley District Office. As long as your gauge is only off 1 to 2 psi you can safely operate your canner. If it is off more than two psi then you need to get a new gauge.

Following these five steps will put you on the path to safe food preservation so that you and your family can enjoy the summer's fresh produce all year long. If you have more questions don't hesitate to contact your local River Valley District Office or go to the River Valley website and follow the Foods, Nutrition, and Health link.



Home and Away

Road trip wondering

By Lou Ann Thomas

Why did the chicken cross the road? Probably to prove to the opossums and raccoons that it was possible.

You may have noticed the growing number of squashed animals along our roadsides this time of year. In a not-the-least scientific study conducted on a recent road trip through our nation's heartland, there were an average of at least six flattened animals per every mile of roadway.

What would motivate an animal to attempt to cross several lanes of speeding traffic, dodge gigantic semi-trailer trucks, numerous minivans and SUVs, just to get to the other side? Perhaps, feeling depressed, they were simply taking the shortest

route to the Fur Family Pharmacy to get their Prozac prescription refilled. Possibly enormous gambling debts at the Rabbit Hole Casino finally caught up with Pauly Opossum who after a night of drinking makes the ill-fated decision to take the expressway home. Or do deer whistles on vehicles actually sound like dinner bells to the deer?

Could the increase in roadkill along our highways be the result of peer pressure? Are there animals that are bad influences on otherwise good and trusting raccoons and opossums who would do anything to be accepted by their friends? And I can't help but wonder how many of the animals I see laying lifeless along the

shoulders were actually unmercifully pushed into traffic by a peer being a bully.

I wonder if the animals who make it safely through the maze of recreational vehicles and speeding semis to the other side of the road are met by an irate parent asking them, as many of us have been asked after doing something carelessly stupid, "If all your friends ran across a busy highway, would you do it too?"

Maybe trying to get to the other side of the road is a form of high-adrenaline sport like bungee jumping is for us humans. It's a toss-up whether I'd prefer running across a busy highway to jump-

ing off a bridge with a rubber band tied to my ankles. Neither sounds wise to me.

But not all these fur and feathered friends have given their lives uselessly. As a friend from Georgia explained it to me — if you actually see the license plate number of the vehicle that struck the animal, you can consider it "good eatin'." If you didn't, then it is best to leave it where it lies.

I am relieved to know there are such strict standards of freshness when scraping dinner off the expressway, but I think I'll pass. If my appetite ever returns there's a fast-food drive-thru just down the road.

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# Hearings demonstrate top concerns for ag producers

A pair of hearings on Capitol Hill highlighted the top concerns for America's farmers and ranchers, especially in the midst of a struggling farm economy. Reauthorizing the farm bill so that producers continue to have strong farm policy and risk management tools like crop insurance is key among them. But, expanding markets, and renegotiating

and enforcing trade commitments, like the North American Free Trade Agreement (NAFTA) in a way that boosts American agriculture are important concerns, too. Senate Agriculture Committee chairman Pat Roberts opened up his hearing on farm policy by recognizing that he had two panels of producers who had "given up valuable time to provide

real examples of why the Farm Bill is important to their operations and to so many others." Those producers represented farm sectors from all across the country and though the growing conditions can be vastly different, they all offered similar reports on the effects of a depressed farm economy that has seen net farm income

drop to half of what it was a few years ago. They explained the importance of maintaining affordable and reliable crop insurance to protect their yearly investments and help secure credit, as well as strong farm policy to protect against multiple years of commodity price declines. "Today, in farming, it is not a question of how to

make a profit, but how to minimize our losses to survive," commented Dan Atkisson of the National Sorghum Producers. David Schemm, the president of the National Association of Wheat Growers, added, "A strong safety net and risk management system is needed now more than ever. Each year, farmers face unpredictable risk when they plant crops in the ground and they rely on an effective risk management system and safety net to offset the inevitable weather disaster or price drop. Crop insurance and Title 1 programs have proven to be effective and good policy in general."

To that end, the new farm bill does not need massive changes, they said, but a few tweaks to help with some of the unintended deficiencies of the 2014 law. Cotton growers, in particular, are operating without any kind of commodity support despite suffering through a host of issues that have financially stressed operations. "We know that a meaningful safety net for cotton must be included in Title I of the farm bill," explained Nick McMichen, representing the National Cotton Council.

And Jennifer James, an Arkansas producer with

USA Rice, put into perspective for the senators why a farm bill's impact extends far beyond the farm. "Agriculture is very important to my community," she said. "We can certainly see a difference in my community when agriculture is down and when it is up. It hurts our schools. It hurts our hospitals. It hurts many other areas in our local economy when we have had ag years."

Although not the focus of the hearing, trade policy discussion crept in as several producers noted that their bottom lines relied heavily upon expanding markets abroad.

This topic was picked up in greater detail across the Capitol the next day where House Agriculture Committee chairman Mike Conaway held a hearing to examine NAFTA, the comprehensive agreement that dictates trade with key trading partners, Canada and Mexico. The Trump administration has signaled its intent to renegotiate this agreement with the first round of talks set to take place next month in Washington.

Conaway noted in his opening remarks that the agreement signed more than 20 years ago has "nearly quadrupled U.S. agricultural exports to Canada and Mexico... accounting for roughly 28 percent of total U.S. agricultural exports in 2016," but it was in need of an update.

Certain U.S. agricultural sectors have not benefited as much as others, and in some cases, one could argue, they have actually been harmed by the actions of the Canadian and Mexican governments.

Former Secretary of Agriculture, Tom Vilsack, noted this issue for the U.S. dairy industry as it related to trade with Canada. "We have to fix what's broken in Canada," he said. "This is a market that is too closed. It is not transparent. The rules are constantly changing, and we there are some serious issues that have to be dealt with in this negotiation."

Additionally, as it relates to the sugar industry, the U.S. government found Mexico guilty of violating America's antidumping and countervailing duty laws after it flooded the U.S. market with subsidized sugar in 2013 and 2014. The American Sugar Alliance noted in a recent statement that, "Mexico's unfair trade practices have already cost U.S. sugar farmers and producers more than \$4 billion in losses and are jeopardizing 142,000 jobs in 22 states." A settlement to end this dispute in advance of NAFTA renegotiations was reached only last month, but no doubt this will be an area to watch going forward.

Several members of the House Agriculture Committee on both sides of the aisle voiced concerns about making certain the interests of U.S. producers are protected in a final NAFTA agreement. And Chairman Conaway cautioned that, "We must stay vigilant and all work together to ensure we achieve the best deal possible for American agriculture."

This is wise counsel that can apply to both efforts that are under way. Protecting American interests begins at home. Making sure America's farmers and ranchers have the tools to compete on a global scale begins with a strong farm bill.

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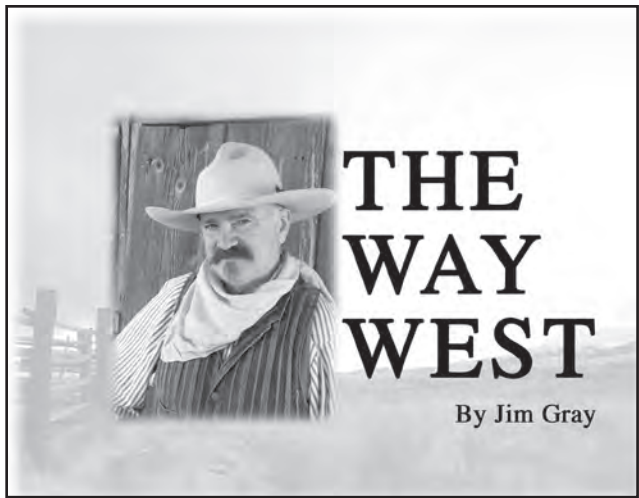
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## Manufactured Depression

By the early 1880s cattlemen were beginning to realize the political potential of unified lobbying efforts at the nation's Capitol. But the industry had no unifying voice. The cattlemen were splintered between a great number of local and state cattle associations. Large corporations with interests in the cattle business, such as commission houses and meat packing businesses, had their own representation which added to the commotion.

One subject that could have united the cattlemen was the problem of Pleuropneumonia, a disease that spread from England to the United States. Pleuropneumonia was causing great alarm as England, the original source of the disease in the states, had now discontinued all imports of American cattle. In response, representatives of the cattle business associated with the

stockyards in Chicago called for a cattlemen's convention in that city in the fall of 1883.

The result of that convention was the formation of the Bureau of Animal Industry with the power to inspect herds that were suspected of carrying pleuropneumonia. But political developments arising from the Chicago convention brought an uproar from cattlemen across the west and southwest. The convention had been attended largely by cattlemen from the north and east where pleuropneumonia was an ongoing problem. The disease was relatively unknown in the west and southwest and cattlemen felt threatened by the prospect of federally backed inspectors scrutinizing their herds.

From that groundswell of protest Robert D. Hunter and Albert G. Evans, of the commission house of

Hunter & Evans, proposed a convention in St. Louis to address the concerns of the western men. They felt that the Chicago convention had excluded their interests and announced that the St. Louis convention would "be truly representative of all cattle interests."

A second convention was held at Chicago just before the planned November 17th St. Louis convention. The success of open range ranching weighed in the balance at St. Louis. While the subject of cattle disease, previously discussed at the Chicago convention, was addressed, lively discussion at the St. Louis convention mostly related to Texas cattle fever and the quarantines related to the disease. Texans and cattlemen grazing on the Indian leases wanted protection from the ever-expanding quarantines against their cattle. A federally backed National Cattle Trail from the Red River on the Texas border to "The British possessions" of Canada was their solution. The proposal asked for a corridor of federally owned land that barred settlement. Trail cattle would enjoy free access from south to north along a line west of the Kansas-Colorado border.

Other entities were also lobbying effectively against the cattlemen. In the end the Congress of the United States, facing opposition from trail opponents, refused to support a National Cattle Trail. The influence rose to the highest level of government. President

Cleveland surprised cattlemen with a proclamation July 23, 1885, ordering the removal of "cattle, horses and other property" from the Cheyenne/Arapaho reservation within forty days. While the Cherokee Nation could theoretically do as it pleased with cattle leases, the President's proclamation concerning the politically inexperienced Cheyenne and Arapaho took an opposing view. The reservation of the unsophisticated Cheyenne and Arapaho people was recognized as a "domain of the United States," reserved solely for the "occupancy" of the Indians. The right of the Cheyenne and Arapaho to manage their lands without interference from the Federal government was therefore denied.

Cleveland issued a second proclamation in reference to all public lands including the Cherokee leases on August 7, 1885, stating, "...every unlawful inclosure of the public lands maintained by any person, association, or corporation be immediately removed."

The order to vacate Cheyenne/Arapaho pastures proved disastrous for cattlemen everywhere. Cattle flooded to already crowded northern ranges. Some of the cattle were driven south to neutral lands below the North Fork of the Red River in what is southwest Oklahoma today. The move turned out to be a costly one. The cattle came into contact with southern cattle carrying Texas fever and began to

Grass & Grain, August 8, 2017

hopelessly die off.

Hunter & Evans moved fourteen thousand head of cattle to Kansas, crowding the range west of Kiowa. The grazing lease with the Cherokee in the Cherokee Outlet was now closed to cattlemen. They were given time to move out, but they had nowhere to go. Forced to dump thousands of head of cattle onto the markets in Kansas City and elsewhere stock prices plummeted. Bankruptcy stared many cattle companies in the face. The cattle boom was over, caused by a government manufactured depression of the cattle business on The Way West.

"The Cowboy," Jim Gray is author of the book Desper-

ate 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.

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## Japan triggers frozen beef safeguard

The Japanese government has released its June import figures for frozen beef. From this data it now is clear that beef imports during the first quarter (April 1-June 30) of Japan's fiscal year from the United States and other countries covered under Japan's "safeguard" mechanism were large enough (by a margin of just 113 metric tons) to trigger an increase in the duty charged on imports of frozen beef, reports the U.S. Meat Export Federation (USMEF). The rate will increase from 38.5 percent to 50 percent for the remainder of the current fiscal year, which runs through March 31, 2018.

"We're very disappointed to learn that the tariff on frozen beef imports to Japan will increase until April 2018. Japan is the top export market for U.S. beef in both volume and value, and anything that restricts our sales to Japan will have a negative impact on America's ranching families and Japanese consumers. Our producers lose access, and beef becomes a lot more expensive for Japanese consumers. We hope the Trump administration and Congress realize that this unfortunate development underscores the urgent need for a bilateral

trade agreement with Japan absent the Trans-Pacific Partnership," stated NCBA president Craig Uden.

"USMEF recognizes that the safeguard will not only have negative implications for U.S. beef producers, but will also have a significant impact on the Japanese foodservice industry," explained USMEF president and CEO Philip Seng. "It will be especially difficult for the gyudon beef bowl restaurants that rely heavily on Choice U.S. short plate as a primary ingredient. This

sector endured a tremendous setback when U.S. beef was absent from the Japanese market due to BSE, and was finally enjoying robust growth due to greater availability of U.S. beef and strong consumer demand."

Seng said USMEF will work with its partners in Japan to mitigate the impact of the safeguard as much as possible. "We will also continue to pursue all opportunities to address the safeguard situation by encouraging the U.S. and Japanese governments to reach

a mutually beneficial resolution to this issue."

To read more from USMEF, go to <http://tinyurl.com/JapansFrozenBeef>.

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**Farmstarts Feedback**

"You look for information online and you're just all over the place. It's important to get in the same room with everyone and be able to ask questions. All of this information for me will be used, (and help me decide) whether it will be worth it for my small operation to go organic." —Matt Alt, Michigan

**Flint Hills BEEF FEST, INC.**

**August 18-20, 2017**  
Lyon County Fairgrounds, Emporia, KS  
**FRIDAY, AUGUST 18, 2017**

6:00 - 7:00 am	.....	WIBW Live Radio Broadcast
7:30 am	.....	Free Breakfast
8:15 am	.....	Beef Producers Seminar
9:00 am	.....	BBQ Cook-Off Registration Begins
10:00 am	.....	Hay Clinic
12:00 - 2:00 pm	Lyon Co. History Center, 711 Commercial .....	Chisholm Trail Exhibit
	..... (Chuckwagon lunch provided by Symphony in the Flint Hills)	
6:00 pm	Grandstand Area .....	Ranch Feed
7:00 pm	w/kids calf scramble .....	Ranch Rodeo
7:30 pm	Turn-In .....	Ground Beef Contest

**SATURDAY, AUGUST 19, 2017**

7:00 am	.....	Registration 5K Ranch Land Trust Run/Walk
8:00 am	5K located at The Orchard .....	5K Ranch Land Trust Run/Walk
8:00 am	.....	Ranch Horse Competition
9:30 am	Sale Barn .....	Live Stocker Show
10am - 3:00 pm	All Ages .....	Ag Olympics
11am - 1:00 pm	While they last .....	Free Hamburgers & Cokes
12:00 am	.....	BBQ Judging Begins
1:00 pm	.....	Junior Ranch Rodeo
3:00 pm	.....	BBQ Awards
5:30 pm	.....	Awards Banquet
6:30 pm	.....	Steak Dinner
7:30 pm	.....	William Lee Martin, comedian
9pm - 11:30 pm	Bowyer Building .....	Lucas Maddy and the Kansas Cartel
9:00 pm	Anderson Building .....	Bluestem Swingers Square Dancing

**SUNDAY, AUGUST 20, 2017**

8:30 am	.....	Golf Tournament
---------	-------	-----------------

**Purchase your tickets now!**

Friday evening	Children .....	\$5	Adults .....	\$15
Saturday evening	Advance tickets only, dance included .....	\$40		
Dance only tickets			At the door .....	\$15

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# Yield Monitor School scheduled for Aug. 14 in Manhattan

Join Kansas State University and the Kansas Ag Research and Technology Association (KARTA) on Monday, August 14th for an informative Yield Monitor School.

Speakers include: Jared Ochs, TopCon Precision Agriculture; Justin Atwood, Landmark Implement; Lucas Haag, Kansas State University; Terry Griffin, Kansas State University;

Ignacio Ciampitti, Kansas State University and Ajay Sharda, Kansas State University. Participants will learn the following: Yield Monitor Calibration, Yield Data Cleaning, New Yield Monitor Technologies, Yield Monitor Setup and Data Extraction, Utilizing Data to Create a Prescription. Utilizing Satellite Imagery for Yield Prediction

The workshop will take place at 142 Seaton Hall in Manhattan. Registration is due by Aug. 11th at 5 p.m.

As with all KARTA workshops, participation is free for current KARTA members. Non-members are welcome to attend for a \$25 fee. Lunch and refreshments are provided. For more information or to register contact Ajay Sharda, Arlene Jacobson, or call 785-532-5825.

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<b>SEEMAN FARMS</b> Larned, KS <b>620-285-5288 • 620-285-3471</b> <b>TAM111, Jackpot, AP503CL<sup>2</sup>, SY Monument, SY Flint</b>	<b>SHARP BROS. SEED CO.</b> Healy, KS <b>800-462-8483</b> <b>AP503CL<sup>2</sup> Clearfield, Oakley CL Clearfield, SY Monument, Tam 111</b>	<b>SOLOMON RAPIDS SEED, INC.</b> <b>Beloit, KS: 785-738-5134</b> <b>Osborne, KS: 785-346-2104</b> <b>SY Grit, SY Flint, SY Monument, SY Wolf, AP503CL<sup>2</sup></b>

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# Understanding soil pH

By Jeri Geren,  
Diversified Ag & Natural  
Resources Agent, Wildcat  
Extension District

Many producers are curious about the conditions of the soils they farm. Does the north 40 need lime? Is the old home place low in phosphorus or potassium? Does the alfalfa look poor due to the soil or is it another factor? Soil sampling can offer many benefits to better understanding the condition of the soil, but when the results come back, they may be hard to understand. Soil pH and buffer pH, in particular, can be difficult concepts to grasp.

On a basic soil sample, the soil pH is given. The pH scale ranges from 0 to 14, with 7 being neutral. Numbers that are less than 7 indicate acidity while numbers greater than 7 indicate alkalinity. Most agricultural soils in southeast Kansas fall between a pH of 5 to 7 (slightly acidic to neutral). The pH tends to increase slightly in areas in the western part of the state where the pH can easily reach a value around 8 (slightly alkaline). Much like the variation of pH across the state, the pH can greatly differ within a field resulting in fluctuating lime needs to increase the soil pH. The amounts of soil organic matter present as well as the clay content are two of the many contributing factors that can affect the lime needs within a field.

On a soil test report, when soil samples have a low pH, the buffer pH is also given. The amount of lime needed to increase the pH to a desired level varies with the soil's cation exchange capacity (CEC) and its buffering capacity. The higher the organic matter and heavier the soil texture, the higher the soil's CEC. Acidic soils with a high CEC contain more acidity than low CEC soils with the same pH resulting in more lime needed to get the same change in pH in a high CEC soil than a low CEC soil. Soils are most highly buffered, or resistant to change, at very acidic or very alkaline values. This could be good or bad, depending if the soil needs a large increase in pH or if the soil is naturally resisting a decrease in pH.

Not only can the pH vary across a field, the crop needs are highly diverse as well. Crops are impacted differently by soil acidity. In Kansas, wheat is one of the most acid tolerant crops, while alfalfa and sweet clover are two of the least acid tolerant. In southeast Kansas, most of our forage grasses and crops such as corn and other small grains can withstand the soil pH around 6.0. Soybeans and other legumes require soils with a pH greater than 6.4 to perform adequately. Alfalfa performs optimally at soils with a pH of 6.8.

Many fields vary in organic matter content and soil texture. It is important to take a representative amount of soil samples across a field that will capture the variability of pH and buffering capacity. While the soil pH and buffer pH may be difficult to fully understand, knowing the basic concepts of each will lead to better informed land management decisions.

If you have questions or would like more information, please call me at the office (620) 331-2690 or email

me at [jlsigle@ksu.edu](mailto:jlsigle@ksu.edu), or visit the Wildcat Extension District website at [www.wildcatdistrict.ksu.edu](http://www.wildcatdistrict.ksu.edu).

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Serial Number: 958748, MFG Date: 2/16/2016, Model: 10' x 52' Portable Double Run, hydraulic winch. Wide boot. Part#: P105205SU, Net Price: \$15,050 (List Price \$27,500).

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## RICHARD POWELL ESTATE AUCTION

**SATURDAY, AUGUST 26, 2017 • 9:00 AM**  
12560 School Creek Road, ST. GEORGE, KANSAS • Lunch Served

**TRUCK SELLS AT NOON**  
2003 Chevy Duramax 2500 HD, 4 dr., 4 wheel drive, new brakes, approx. 103,000 miles, w/spray in bed liner, auxiliary fuel tank in bed and topper.

**TOOLS**  
Minuteman furniture dunk tank; Minuteman 1075 turbine; Stack-on tool box (2 pc. w/keys); U.S. General tool cart w/4 drawers & locking lid; King 16 sp. Drill press; multi speed bench top drill press; Central Machinery 14" wood cutting band saw (like new); Fairbanks Ward metal cutting band saw; Belsaw planer; Delta Home Craft table saw w/planer; Craftsman 10" radial arm saw; Atlas scoping saw; Central Pneumatic sand blaster; Craftsman 12" wood lathe; Central Machinery industrial shaper/router (new); Mig 100 welder (new); Lincoln stick welder; welding cart (new); manual tire changer (new); 3 ton floor jack; Walker floor jack (large); ratcheting chain hoist (heavy duty); Mossy Oak 1200 W port. generator (new in box); Coleman Powermate maxa. 5000, ER generator; Sears engine starter & battery charger (heavy duty); 10 gal. Shop Vac & others; lg. anvil; 5 pc. 18V Dewalt kit w/charger and batteries in case; sev. socket sets (1/4, 3/8 & 1/2); air bubble; air file/sander; hammer drill; 4 ½" angle grinder; soldering guns; drills; bench grinders; bench vices; come a longs; hand and meat saws; brick saw; lots of pipe and bar clamps; c-clamps; lots of drill bits; Torque Smith 75 pc. power driving set (new); lots of hand tools (hammers, pipe wrenches, screwdrivers, pliers, staplers, etc.); locking c-clamp pliers, tap & die sets; paint guns; Wagner paint eater; oil cans; lg. pipe threader.

**FURNITURE & ANTIQUES**  
Monarch Malleable cook stove; Banquet Gastrolux stove w/heat sealed oven; sm. C.I. stove (pat. 1924); McCalls cabinets; 2 Wardrobes; approx. 75 pcs. of restorable vintage furniture (rockers, chairs, tables, etc.); 2 ice cream chairs; spool cabinet; metal lawn chairs; John Deere 4216-C corn sheller; C.I. round kettle; 4 large wood wagon wheels (nice); cream can; old humpback trunks; lanterns; 2 man saw; old wood dolly; early Ford glass headlight lenses (new); Model A parts (sediment bowls, gas valves, hose clamps, tail light rims, distributor caps, clips); Model A books; old light fixtures; sm. wood nail kegs; log roller; Goetz Co. wood box; old picture frames; ice tongs; auto service manuals; Skelgas Alma Gas & Equip. Co. thermometer; windmill tail marked Kansas; C.I. pump w/spicket; C.I. Singer sewing machine stand; Ford gas can & others; old doors & windows;

**YARD & MISCELLANEOUS**  
Troy Built Rototiller; NWTF 18,000 BTU heater (like new); 12 McCullough chain saws; Stihl D34 AV chain saw; Remington electric chain saw; weed eaters; gas grills (John Deere & Brinkman Pro Series 9200 H.D.); smoker; garden hose reel cart; Cabela's Big Buck scales & others; lg. & sm. ammo boxes; shovels; new tarps; vintage tractor parts; new bar for tractor; extension ladder; step ladders; boat seats; boat gas tanks; lots of fishing equipment; Coleman camping stove & other camping items; outdoor deep fryer; coolers; Buckshot tree stand; animal traps; plumber's snake on reel; lots of electrical and plumbing supplies; new trailer jack; brass ball valves (new); steel posts; metal folding tables; **AND LOTS MORE!**

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## AROUND KANSAS



Our day:  
The cat walking across me lets me know it is time to get up and pass out treats. I make coffee and sit down to check emails when I hear the horses, whinnying a little louder and more insistently than usual. Slipping on my shoes, I head outside and find that, sure enough, our problem children are

out. I half-heartedly open the gate and tell them it's time to come back inside. They laugh in my face.

I feed the barn cats, water the flowers, and watch the problem children run circles around the corrals. Butters is a Haflinger mare with a sturdy colt on the inside. He revels in the fact that he is causing his moth-

er great distress by hanging by his aunt's side instead of joining in her freedom. We have our own little horsey soap opera in the barnyard.

I tell Dr. Jake the kids are misbehaving and then I rehang the horse blankets on the line. He gets Ulysses, our little stud, back inside then gets a bucket of grain and lures Butters. I shut the gate behind her as she trots off to find her colt, and to taunt the other horses.

My hip is hurting by now, and I have a good size bruise from that blind cow that went wild in the vet shack yesterday. I record tag numbers while Dr. Jake does the doctoring. This cow had pinkeye and came out of the chute on my side. I am not sure if she hit me or the barrel I use for a desk hit

me in the butt as I fled.

It was a Kodak moment.  
Dr. Jake is on the phone with someone who needs insurance papers on some cattle with injuries, then with someone else who had dogs attack their cat.

I toss the laundry into the dryer and my coffee into the microwave. The horses are contentedly munching hay, the cats are seated, as if placed in a still-life, on a tractor, on a wagon, by the flower pots. The sun shines on us all.

It's time to get to work.  
Deb Goodrich is the co-host of *Around Kansas*, the Wednesday feature of AGam which is syndicated on television stations throughout Kansas as well as bordering counties and available online at any hour, [aroundkansas.com](http://aroundkansas.com).

## Black Diamond Angus Ranch to host KLA/K-State Ranch Field Day

The historic Black Diamond Angus Ranch, also known as Warner Angus Ranch, will host the first 2017 Kansas Livestock Association/Kansas State University Ranch Management Field Day August 17 near Spearville. The ranch dates back to 1884 when Willis B. Warner moved to the Sawlog Creek Valley near the Ford-Hodgeman county

line. Warner started a purebred Angus herd in 1893 and son John began a registered Morgan horse breeding program in 1949.

Today, the ranch is operated by Willis Warner's great-granddaughter, Marcella Warner Holman, and her husband, John Holman. The Angus herd is the base of their commercial cow-calf operation and registered Morgan horses continue to be bred and used on the ranch.

Marcella Warner Holman will join K-State Extension reproductive physiologist Sandy Johnson on the field day program to discuss the impact of high-protein for-

ages on fertility. Johnson has been collecting conception data and breeding success rates on Black Diamond heifers grazing triticale during the breeding season. The two will share results from the first year of the research project.

John Holman, a K-State agronomist, will give a presentation on how annual forage crops work with dryland farming. Holman has conducted research for more than ten years on the viability and advisability of planting annual cover crops or forages in conjunction with conventional dryland cropping systems in western Kansas. This research in-

cludes the use of both multi- and single-species cover crops. Black Diamond has utilized triticale for supplemental grazing for the cow-calf herd and to provide a quality feed source during the late spring breeding season. Holman will discuss the economics and options available for annual forages in diversified livestock and farming operations.

The Natural Resources Conservation Service (NRCS) has assisted Black Diamond in developing new stockwater sources in strategic locations. NRCS District Conservationist Brad Shank will be on hand to describe what has been done on the ranch and highlight the assistance the agency can provide ranchers wanting to enhance stockwater systems and grassland health.

Oklahoma State University entomologist Justin Talley will discuss the latest on fly and tick control for beef cattle operations. Talley will explain the difference between face flies, horn flies, stable flies and deer flies. He also will provide timely research results on effective management practices that offer optimum control for these commonly found pests.

The August 17 field day will begin with registration at 3:30 p.m. and conclude with a free beef dinner at 6:45 p.m. All livestock producers and others involved in the business are invited to attend.

Black Diamond Angus Ranch is located south of Jetmore in Ford County. From Jetmore, go south on Highway 283 about 12 miles to A Road. At this intersection, go east on A Road for two miles, then ¾ mile south on 120 Road to the ranch headquarters. If coming from the Highway 283 and Highway 50 intersection near Wright, go north on Highway 283 for 9.2 miles to A Road. At this intersection, go east on A Road for two miles, then ¾ mile south on 120 Road to the ranch headquarters. Directional signs will be posted.

Mark Diederich Family Farms near Greenleaf will host the second 2017 KLA/K-State ranch field day August 22. DL Cattle Company of Fredonia will be the site of the final field day August 23. Bayer Animal Health and the Farm Credit Associations of Kansas are sponsoring all three events. For more information, go to [www.kla.org](http://www.kla.org) or call the KLA office at (785) 273-5115.



Exhibiting the reserve champion bred and owned heifer at the Kansas Junior Charolais Association State Show was Madison Vogt.

## Antique, Primitive & Collectible AUCTION

**SATURDAY, AUGUST 12, 2017 — 9:00 AM**  
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# Global Food Systems talk set for Sept. 11 at Kansas State University

Jason Clay, the senior vice president for markets and food at the World Wildlife Fund, will be the featured speaker for the Henry C. Gardiner Global Food Systems lecture September 11 at Kansas State University.

Clay's talk, 'Feeding the World: Sustaining the Planet,' is scheduled for 7 p.m. at McCain Auditorium. Admission is free.

Kansas State University established the Henry C. Gardiner Global Food Systems lecture in 2015 to provide science-based education about world food issues. The series allows students, faculty, staff and Kansas citizens to interact with U.S. and international food industry leaders on topics of current interest.

Past speakers have included Robert Fraley of Monsanto, Greg Page of Cargill, and Jay Famiglietti of the University of California-Irvine.

The lecture series is funded by the Gardiner family of Ashland. Henry C. Gardiner, who passed away just before the first lecture in 2015, was known as a visionary leader who dedicated his career to improving the beef industry through science and technology.

Clay has previously operated a family farm, taught at Harvard and Yale, worked at the U.S. Department of Agriculture, and spent more than 35 years working with non-governmental organizations.

He is the author of 20 books and is *National Geographic's* first Food and Sustainability Fellow and won the James Beard award in 2012 for his work on sustainable food.

The World Wildlife Fund is considered one of the world's leading conservation organizations, working in 100 countries and supporting 5 million members globally. According to its website, its mission is "to conserve nature and reduce the most pressing threats to the diversity of life on Earth."

Clay recently answered some questions about his work and the message he plans to bring to Kansas State University in September:

**Kansas State University:** Please talk specifically about your work on global food sustainability. What is it, and why is it important?

**Clay:** Over the past 20 years or so, the World Wildlife Fund has come to realize that the largest threat to our mission – the protection of biodiversity and ecosystem services – is from the production of food, and specifically where and how we produce it.

Food production has always been the biggest human impact on the planet, but going forward with more people, more per capita income, and increased per capita consumption, the impacts will only increase. In fact, if we do nothing differently we will need to produce twice as much food to meet the increased demand by 2050.

So the question is how do we produce more with less land, water and other inputs. Agricultural sprawl is the biggest threat to biodiversity. We need to find ways to intensify production, but do it sustainably.

Some think that companies are primarily to blame for negative impacts to the environment. How true is that? And in the bigger picture, what needs to be done to reduce environmental impact due to food production.

Producing food globally is certainly the largest impact on the environment. But the impacts are not directly from companies. If you look at land and water use, habitat conversion, greenhouse gas emissions and more, companies account for less than 10 percent of impacts, often less than five. In fact, most research suggests that the biggest impacts from food do not happen with companies. Rather, they occur during the production of primary products.

However, companies can help drive change by working with their suppliers up the value chain to address the most critical impacts. This could be by reducing habitat conversion (for example, deforestation or plowing of grasslands) or reducing water use and increasing efficiency.

Companies could also

focus more on food waste, illegality in production and making consumption more sustainable.

We waste a third or more of food produced in every country in the world. Companies could help reduce food waste by reducing the volume of products in the packages they sell as well as how they speak with consumers about more sustainable consumption.

Illegality in food production is an important global issue. Our research suggests that as much as half of food traded globally is not produced legally in the country of origin. In the U.S., the biggest domestic issue with illegality in production is undocumented workers. It is estimated that half of agricultural laborers in the U.S. are not legal. If that is the case, than about half of our production may be produced illegally as well.

But the biggest issue going forward will be consumption and the impact it has on renewable natural resources, forests, grasslands and water – but especially on soil. There is an end in sight for population growth, but that is not the case for consumption. There is no one-size-fits-all recipe for consumption, but we all have to be more thoughtful about it, more conscious of our choices and their impacts.

Are there steps that we, as individuals, should be taking to take better care of the environment? Maybe there are best management practices?

Everyone can reduce food waste. This is a no-brainer. We can't eliminate it entirely, but we can certainly cut it in half. No one is in favor of food waste, but all of us waste it.

I don't know anyone that is actually in favor of illegality in food production, either, but the issue is not so simple. Still, we can express our concern and work to find political solutions to these issues. Illegality and enforcement are, after all, the role of government.

As we go forward, however, we need to focus more on results and metrics. That is why World Wildlife Fund supports collaborations like the Forest Stewardship

Council, Field to Market, the Roundtable on Sustainable Palm Oil, and the Midwest Row Crop Collaborative. We can identify the practices that help us get better, but the end goal is the result, not the practice. And, to double production by 2050 without using more land, water or other inputs, we will need to focus on continuous improvement.

There are no best practices, but there are a lot of better ones, and some work better for some producers than others. Think of it this way: Today's better practice will be tomorrow's norm and the practice we are trying to eliminate the day after.

As we look to the future and the availability of safe, nutritious food, what should people understand in terms of how caring for the environment affects food security in the world?

We only have one planet. We are already living beyond the carrying capacity using today's production systems. Yet, we know that if nothing changes we need to produce twice as much, per capita, by 2050. Doing that will require profound changes in what we do and how we do it.

Soil is at the heart of sustainability for food. Globally, we have lost half of our topsoil in the last 150 years. We have got to shift from mining the soil, to using it better and rebuilding organic matter, soil carbon and soil profiles. Sustainability and food security is all about the soil.

On a finite planet, trade is critical to sustainability. We need to produce items where they can be produced more sustainably and with fewer overall impacts and ship them to the places where there is demand but it would be inefficient to produce them. For example, the U.S. could produce coffee, tea, cocoa, orange juice and bananas, but it is more efficient to produce them elsewhere and import them.

Eight countries dominate all of the cereal grain and oil-seed exports. Over time, we should see those exports shift to animal-protein exports so that all the manure and waste can be reintroduced to the soil in the pro-

duction country rather than in places like China where it contributes to pollution and more red tides than any other country.

As you travel around the world, what are the food issues that concern you most?

The biggest environmental issues for me are habitat loss (forests and grasslands), water and soil health. Each is important. Generally, I think these issues are more or less understood, though finding ways to address them may not have been identified everywhere.

The biggest social issues are that most farmers are getting older, they don't want their children to farm, and those children who do want to farm can't afford to buy their parents or siblings out. And, others who want to farm but do not come from a farming family also face barriers to capital and land.

What impact has climate change had on food production?

As key parts of the world have become hotter and drier, water stress has increased, and resistance to disease has lessened. This has affected all crops. Perhaps most important is that with climate change, in the short-term, producers will have to work harder to maintain their previous levels of production. In the medium term (six to ten years) farmers will have to change genetics, change the crops they produce or both.

Tree crops have been affected most. In Central America, we have seen declines of coffee production by 20-50 percent in each country. And the best coffee land is 100 meters higher than it was 10-15 years ago. In West Africa, climate change has reduced cocoa production and made the plants more susceptible to disease.

But it isn't just tree crops. Agriculture is shifting north. In 2016, the amount of prairie plowed in the U.S. and Canada was greater than the amount of deforestation in Brazil. By 2070, Iowa and Illinois are projected to be the leading cotton producing states in the U.S. And unless something changes, the heart of the corn belt will have shift-

ed to the U.S./Canada border, where one of the four remaining intact temperate grasslands grows today.

How might farming be affected by climate change and emerging food issues?

We are seeing that in many places and for many crops, "business as usual" is now a stretch goal. We are not getting the consistent rains that we did in the past, aquifer water levels are not as high as they were, and the best time to plant is inconsistent.

It is no longer clear when to plant. Our genetic yield gains are not improving as quickly as we had predicted they would. Farmers may be taking too long before they realize that they need to shift crops or animals. But, in many parts of the world, farmers can't just pick up and go to a place where they can continue to produce the crops they know.

A major challenge we face in our future is how to produce more food with less land. Can we really do that? If so, how?

We can certainly produce more with less. We have been doing it for centuries. People are very innovative. But I don't think that everything has to come from the "produce more" side of the equation.

I think there are four ways to get to 2050 with room to spare. On the one hand we need to focus on efficiency and productivity. On the other we need to reduce waste and make consumption more sustainable.

Efficiency is about how we use inputs like water, pesticides, fertilizer and more.

Productivity is more about improving the soil and rehabilitating degraded land and tapping better genetics.

Reducing waste in half by 2050 would reduce the total amount of new food we would need to produce by 25 percent. We can do that. But we also need to shift consumption, make it more conscious and more sustainable.

No one can do everything, but everyone can do something. Each person's strategy will be different. Think about it.

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# Water Technology Farms expanded and field days scheduled

The Kansas Water Office (KWO), Kansas State University and Northwest Kansas Technical College is providing an opportunity to see first-hand what is taking place on the Water Technology Farms by hosting a series of Field Days in August. Each location will showcase the technology that has been implemented and the results to date.

Last year three Water Technology Farms: Roth/Garden City Company, T & O Farms, LLC and WaterPACK/ ILS, were created

in response to public input and identified in the Long-Term Vision for the Future of Water Supply in Kansas (Water Vision). These demonstration farms were initiated in southwest/south central Kansas and are three-year pilot projects featuring the installation and testing of the latest irrigation technologies on a whole field scale with a primary focus on water conservation.

"We greatly appreciate the leadership and innovation from these stake-

holders who are willing to participate in these demonstration farms and the partners who also believe in these projects," said KWO director Tracy Streeter. "While we need to evaluate the performance of these farms for multiple years, the preliminary results from a water savings and economic standpoint are encouraging. There is growing evidence that water use reductions coupled with irrigation technology adoption and water management will result in positive effects on the aquifer and the producer's bottom line."

In addition to these existing farms, 13 more Water Technology Farms via partnerships, including generous support from the Kansas Corn Commission, have been established in western Kansas. Throughout August each farm will host a Field Day.

Friday, August 11 – Hatcher Land and Cattle, 2 p.m., Liberal. Owned and operated by Nick Hatcher

Monday, August 14 – WaterPACK/ILS, 2 p.m., Larned. Owned by ILS Inc. and operated by Richard Wenstrom

Tuesday, August 15 – T&O Farms, LLC, 9 a.m., Garden City. Owned and operated by Tom Willis

Monday, August 21 – Northwest Technical

College, 10 a.m., Goodland. Owned by Goodland area producers

Thursday, August 31 – Big D Farms, 9 a.m., Holcomb. Owned by Garden City Company and operated by Dwane Roth

In addition to understanding how the technologies work, the field days are great opportunities to learn from local producers, irrigation companies, soil moisture sensor dealers and other entities about options and experiences towards improving irrigation water use. In 2016 alone, the field days had a collective attendance of 375 people wanting to learn something new as well as wanting to share their experience with fellow producers.

This year in addition to producers participating in the Water Technology Farms, Northwest Kansas Technical College is also participating by providing learning and workforce development training for its students. Northwest Kansas Technical College's Precision Agriculture department and landowners around in surrounding counties have partnered to develop ten Water Technology Farm projects. In these projects, the students and landowners receive in-field training and hands on experience implementing water

efficiency technologies. With supplier partnerships, students will be exposed to multiple types of soil moisture probes, pivot controls, irrigation scheduling systems and other water management tools.

KWO provides financial assistance to Kansas State University's efforts to give technical support to each technology farm. K-State is deeply involved in establishing and monitoring the farms to help answer the producers' specific questions and concerns about the new technology.

"K-State is working with partners to help address questions and concerns about the new irrigation technologies so in the future, farmers will fully embrace the technology appropriate for their operation and situation," said Jonathan Aguilar, water resource engineer with K-State Research and Extension, based in Garden City. "Each farm is set up slightly different, depending on the primary concern the producer has. For example, one farm has three adjacent spans with different modes of application for comparison purposes. In all fields, soil moisture sensors are installed and tested for accuracy as feedback or for its performance in the different soil types."

The farms are supported by: Kansas Water Office; K-State Research and Extension; Kansas Corn Commission; Northwest Groundwater Management District No. 4, Groundwater Management District No. 1, Seaman Crop Consulting; Servi-Tech Expanded Premium Services, LLC; United Sorghum Check-Off Program; Garden City Co-op, SW KS Groundwater Management District No. 3; Kansas Department of Agriculture; Conestoga Energy Partners; Teeter Irrigation; Dragon-Line; Helena; Kansas Geological Survey; Ogallala Aquifer Program; Syngenta; Hortau; Kansas Farm Bureau; KSU Mesonet; AquaSpy; Kansas Grain Sorghum Commission; Crop Metrics; Netafim; Valley Irrigation; and Presley Solutions, American Irrigation; WaterPACK, Pioneer Hi-Bred International, Western Irrigation Supply House and Ag Systems, Inc.; Tri-State Irrigation; John Payne; TerrAvion; Phytech; Great Plains Precision Ag; Western Sprinkler; Finney County Conservation District; On Target Solutions, Lindsay Corporation, Woofert Irrigation.

Visit the KWO website, [www.kwo.org](http://www.kwo.org), for more information on each field day or call 1-888-KAN-WATER.



The reserve champion bull at the Kansas Junior Livestock Association State Show was shown by Hadley Schotte.



Weston Schrader exhibited the grand champion steer at the Kansas Junior Charolais Association State Show.

## Students explore animal science opportunities in western Kansas

Fourteen students got an up-close look at the western Kansas livestock industry as part of the K-State Animal Sciences Leadership Academy (KASLA) premier program, held July 12-14 in southwest Kansas.

The group included high school and college students who had completed the traditional academy hosted in June on Kansas State University's Manhattan campus.

The program, new this year, allowed students to further develop leadership skills, expand their industry knowledge and earn a greater appreciation for large-scale agricultural production.

"The KASLA premier program is an invaluable opportunity for students to improve their leadership

skills, network with ag industry leaders and learn from the vast knowledge of livestock producers and businesses," said Jason Paine, a participant from Hutchinson.

This year's class included Emily Albright, Delia; Reid Beeman, Hamilton; Ethan Bellar, Howard; Kelsey Bradford, Leavenworth; Rayli Cunningham, Rosston, Oklahoma; Kord Curran, Farlington; Brooke Falk, Harveyville; Kayley Geesling, Turon; Anna Hixon, Belle Plaine; Trent Johnson, Moran; Cameron Kilgore, Atchison; Mallory Meek, Spring Hill; Jason Paine, Hutchinson; and Thomas Parsons, Dexter.

The trip included a visit with Greensburg Mayor Bob Dixon and former Kiowa county commissioner Gene West. Attendees then traveled by bus to livestock operations and related

businesses in southwest Kansas, including Gardiner Angus Ranch, Root-Mix, High Plains Journal, Boot Hill Museum, Royal Farms Dairy, Finney County Feeders, Tyson, Erehsman's Packing, Cattle Empire, Max Jatz Excavation and Hy-Plains Feedyard.

Participants also took part in a leadership discussion over dinner with Sam and Janet Hands, and John and Marissa Kleystuber in Garden City.

"My favorite part of KASLA premier was the opportunity to experience all areas of cattle production from a cow-calf operation to the packing plant and each leg of the journey in between," Paine said. "The commitment and passion each producer had for responsibly providing a quality product and serving the needs of others was evident as they shared their life sto-

ries."

The academy is hosted by the K-State Department of Animal Sciences and Industry and sponsored by the Livestock and Meat Industry Council (LMIC) to develop young leaders within the livestock industry and prepare them for a successful future in the field.

For more information about the academy, visit [www.youthlivestock.ksu.edu](http://www.youthlivestock.ksu.edu). For questions, contact academy director Sharon Breiner at [sbreiner@ksu.edu](mailto:sbreiner@ksu.edu) or 785-532-6533.

## Cows' ability to fight HIV may hold clue to vaccine

Cattle have a "remarkable" ability to fight HIV, according to a new study that researchers say could help develop a vaccine for humans. Cattle can rapidly produce special antibodies that neutralize the virus, scientists found.

Only ten to 20 percent of humans with HIV naturally develop the "broadly neutralizing antibodies" (bNAbs) and those who do only begin generating them about two years after infection, by which time the virus has mutated, reports the British newspaper *The Independent*.

But researchers found that cattle injected with HIV proteins developed the immune response within weeks. All four calves tested developed bNAbs as quickly as 35 to 50 days.

To read more, go to <http://tinyurl.com/CowsfightHIV>.

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## AUCTION

SATURDAY, AUGUST 12, 2017 — 9:00 AM  
(BE ON TIME - NO SMALL ITEMS)

Offering for sale at Public Auction, located at 8301 N. Spring Lake Rd., MOUNDRIIDGE, KS from the 4-way stop in Moundridge, KS. 4 miles south, 2 miles west, 1/8 mile south.

### TRACTORS, TRUCKS & FARM MACHINERY

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# University leads research into heat-tolerant crops

Harkamal Walia, associate professor of agronomy and horticulture at the University of Nebraska-Lincoln, has been awarded a \$5.78 million National Science Foundation grant to explore the effects of high nighttime temperatures on wheat and rice.

The stress of high nighttime temperatures can lead to severe losses in the yield and quality of crops. These losses are particularly high for wheat and rice, two major cereal crops worldwide. During the four-year project, Walia's team will investigate genes and genetic variants in wheat and rice to identify genetic markers and physiological characteristics tied to heat tolerance.

"The effect of high daytime temperatures on crop resilience has been studied, but this project will give us the opportunity to study the impact of high nighttime temperatures," said Walia, who received the award from the NSF's Experimen-

tal Program to Stimulate Competitive Research, or EPSCoR. "Models suggest a greater widespread increase in night-time temperatures than in daytime temperatures, so we need to develop rice and wheat resilient to these conditions."

Walia will lead a multidisciplinary team of Nebraska researchers, including Gota Morota, assistant professor of animal science; Toshihiro Obata, assistant professor of biochemistry; Hongfeng Yu, assistant professor of computer science and engineering; Chi Zhang, associate professor of biological sciences; and Qi Zhang, assistant professor of statistics. The team will also collaborate with researchers from Arkansas State University and Kansas State University.

The team will use a sophisticated image-based phenotyping system that takes high-resolution images of the plants as they endure simulated nighttime conditions. Software pro-

cesses the images, detecting daily differences among the varieties that are not visible to the human eye. Matching slight variations with differences in each plant's genetic makeup will allow the team to identify the genes responsible for heat tolerance.

"We're hoping to gain a better physiological and genetic understanding of the heat stress responses," Walia said. "This knowledge will drive the development of crops that are more resilient to higher temperatures in terms of yield and quality."

Rice is one of the most important crops for global food security. According to Walia, the crop provides 60 to 65 percent of the daily caloric intake for people who live on less than \$1 per day. Wheat is the most widely grown crop in the world and an important commodity for Nebraska. Together, wheat and rice account for more than 50 percent of the world's caloric consumption.

"Genetic improvement of crops for tolerance to increased heat, drought and salinity stress are an important component of an integrated approach toward global food security," said Walia, who will work closely with industry partners to translate discoveries into useful genetic and phenotypic markers. "Nebraska is perfectly poised to lead research of this kind because we've invested in the Greenhouse Innovation Center at Nebraska Innovation Campus."

The Greenhouse Innovation Center is 45,000 square feet of greenhouse and headhouse space. The facility features state-of-the-art computer environmental controls, a high-throughput plant phenotyping system and optimal air circulation. The greenhouses are heated and cooled with sustainable energy.

EPSCoR is designed to fulfill the NSF's mandate of promoting scientific progress nationwide. Twen-

ty-four states and multiple U.S. territories are eligible to compete for funding under EPSCoR's Research Infrastructure Improvement Track 2 investment strategy. RII Track 2 awards build national research strength by initiating collaborations

across institutions in two or more EPSCoR jurisdictions and establishing regional partnerships with government, higher education and industry that create lasting improvements in infrastructure and research development.



Earning third place in the futurity at the Kansas Junior Charolais Association State Show was Kylie Rahmeier.



Showmanship winners at the Kansas Junior Charolais Association state show were, from left: senior showmanship - grand champion: Hadley Schotte, reserve champion: Mitchell Duer. Intermediate showmanship - grand champion: McKenna Richardson, reserve champion: Weston Schrader. Junior showmanship - grand champion: Nissa Olsen, reserve champion: Josi Schrader. Front row: PeeWee showmanship - grand champion: Kinsley Harris, reserve champion: Kole Harris.



Grand champion owned heifer at the Kansas Junior Charolais Association State Show was exhibited by McKenna Richardson. It also placed first in the futurity.



Showing the reserve champion steer at the Kansas Junior Charolais Association State Show was Kilby Meyer.



Hadley Schotte led the grand champion bull at the Kansas Junior Charolais Association State Show.



Hadley Schotte showed the reserve champion owned heifer at the Kansas Junior Charolais Association State Show. Her entry also placed second in the futurity.

## AUCTION

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## LAND AUCTION

**THURSDAY, AUGUST 24, 2017 — 6:00 PM**  
Conference Room - Wolf Hotel, ELLINWOOD, KS

**159.58 ACRES± BARTON COUNTY, KS LAND**

**Legal Description:** Southeast 1/4 S15, T19, R12W, 6th PM, Less Road Right of Way.

**Tract Info:** 159.58± FSA acres with 135.6 DCP cropland acres featuring predominately Holdrege silt loam soil type, considered Prime farmland. There is also 19.97 acres of native grass and several oil wells. Mineral rights DO NOT sell with the farm.

**FSA Base Acres:** Wheat, 112.5 acres, 33bu.

**Property Location:** From Ellinwood: Take Highway 56 West approximately 2 miles to NE 80 Ave. then go North 2 miles. This puts you at the intersection of NE 80 Ave and NE 20 Rd. which is the South East corner of the property.

**Broker's Notes:** This property has highly productive soil types throughout and is currently 84% in crop production with an excellent opportunity to convert additional acres to cropland. Mineral rights DO NOT sell with this property. There is an abandoned homestead on the property with some useable buildings, water and electricity. **Contact me with any questions you may have on this property.**  
**Mark Uhlik - 785-325-2740**

**Terms & Possession:** 10% down day of the sale, balance due at closing on or before Sept. 29, 2017. Seller to pay 2017 taxes, and will retain 2017 crops. Title insurance, escrow and closing costs to be split equally between buyer and seller. Buyer to take possession at closing subject to tenants rights. Property to be sold as-is, where-is. All inspections should be made prior to the day of sale. This is a cash sale and not subject to financing, have your financing arrangements made prior to auction. **Midwest Land and Home is acting as a Seller's Agent.** All information has come from reliable sources; however, potential buyers are encouraged to verify all information independently. First American Title Co 2010 Forest, Great Bend KS. will act as escrow and closing agent. Announcements made the day of sale take precedence over all other information.

**JOHN PFLUGI, SELLER**

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## ESTATE AUCTION

**SATURDAY, AUGUST 12 • 9:30 AM**  
Auction held at 2330 Quail Road — FRANKFORT, KS

**TRACTORS & EQUIPMENT • ALLIS TRACTORS • PICKUP, TRUCKS & TRAILERS • LOTS OF TOOLS & SHOP EQUIP. • MISC.**

**SELLER: DAN STUDER ESTATE**

See last week's Grass & Grain for listings  
& go to [www.jhorigan.com](http://www.jhorigan.com) for list & pictures!

Joe Horigan, Auctioneer • Cell 785-250-5148

## NOEL MINTZ ESTATE AUCTION

**FRIDAY, AUGUST 11 — 12:30 PM**  
1557 Road 170, EMPORIA, KS. From Emporia, go East on I-35 to Exit 135 which is County Road R1, go right or South to the T intersection and go left or East on Road 170 about 1/2 mile to auction site.

**GUNS (SELL 1ST), AMMO, RELOADING, OUTDOOR, HUNTING, FISHING, FISHING RODS, TRACTOR & EQUIPMENT (2:00 PM), MOWER, LAWN, GARDEN & SHOP, COLLECTIBLES, ANTIQUE & COLLECTIBLE FURNITURE, HOUSEHOLD & More!**  
*There is lots of shade for this event.*

See last week's Grass & Grain for listings or go to our website!  
Come prepared for 2 auction rings! CONCESSIONS & PORTA-POT

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## ESTATE AUCTION

**SATURDAY, AUGUST 19, 2017 — 9:00 AM**  
2110 Harper Dg. Fairgrounds Bldg. 21 — LAWRENCE, KS

**The Family (Linda Nemecheck Daughter & Stacey Wiggins Granddaughter) has decided to move the Estate of John D. Jr. & Mary Clark from Pittsburg Ks to Lawrence for your comfort into a climate controlled building from all-weather elements!**

**VINTAGE FURNITURE**  
French Provincial bedroom suite full bed, triple dresser, chest, nightstand; walnut bedroom suite; walnut round table w/claw feet & 4 chairs (100 yr old); Pie Safe (100 yr old); round oak table w/glass ball claw feet; twisted spindle oak rocker w/leather seat; oak chest drawers; cedar chest; gate leg tables; 3 Ladies desks; walnut Wardrobe; red velvet Victorian chair; carved back sofa; fainting couch 200 yr old frame; settee 200 yr old frame; 3 round oak side tables; marble top dresser w/mirror; trunks & rockers of all sorts; maple drop leaf table w/Captain's chairs; 6 ladder back chairs; small armoire; swivel wooden Library cabinet; large steamer trunk; enamel Hoosier cabinet; Victorian Lady w/Dog Lamps; glass ball organ stools; Child's Wooden Furniture; lamps; pictures/frames; prints; numerous Vintage Furniture pieces in various conditions to be re-stored!!

small coal oil cooking stove; post cards; stamps; records; Jewel Tea Autumn Leaf dish ware; **100s of pieces of Glass & Pottery:** Blue Willow, Meakin Hanley, Marquis Grindley, Poppy Trail (all colors), Haviland, Bavaria, Germany, Clear, Cut; large assortment of Vintage Stoneware pieces; Depression glass of all colors; meat grinders; scales; 100s colored bottles/jars; several sets of flatware & silver plate; Shirley Temple blue cream pitcher; Hall & McCoy pottery; stoneware bowls; perfume bottles; Occupied Japan items; Remington & Underwood typewriters; Syracuse china; Royal Staffordshire; Lefton; toothpick holders; wooden radios; wall pockets; salt/peppers; Noritake Happy Days China (bought Mark's Jewelry); Wash Bowl & Pitchers; restaurant china; 100s of Coffee Pots; **Books:** Charles Dickens, Shakespeare, Mark Twain; primitive tools; primitive printer stamps; bird cages; games, puzzles; Cook Books; Pyrex, Fire King, Corelle, Corning Ware; horse decanters; White sewing machine; Bernina sewing machine w/sewing table & stool; sewing supplies; fabric; quilting; bedding & linens; baskets; fashion jewelry; power & hand tools; kitchen décor; **numerous items too many to mention!**

**Auction Note:** We will Run TWO Auction Rings Most ALL DAY! Very Large Auction DO NOT MISS THIS ONE! Many Collectibles & Primitives unlisted! Bring Your Trucks & Trailers as there is Many Pieces of Vintage Furniture & Fixer Up Pieces!

Concessions: Worden Church Ladies

**SELLER: JOHN D. JR. & MARY CLARK ESTATE (Pittsburg, KS)**

Auctioneers: **ELSTON AUCTIONS • (785-594-0505) (785-218-7851)**  
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# Farm Pond Management meeting set for August 17th in Parsons

Summer is a great time of year for casting a line and enjoying the sunset on a Kansas farm pond. Nothing beats a well-maintained pond that produces fish large enough to brag about. When weeds or algae start to take over, or there is a change in the quality or number of fish in a pond,

this can be a cause for concern. The upcoming Farm Pond Management meeting, hosted by the Wildcat Extension District, will feature topics on fish stocking and management as well as aquatic weed control. Seth Lundgren, District Fisheries biologist, will discuss

proper stocking rates of fish as well as maintaining current fish populations in farm ponds. He will also briefly talk about different fish species and their benefits or effects on the pond and other aquatic species. K-State Research and Extension wildlife specialist Charlie Lee plans to pro-

vide information on how to control aquatic weed species. This will include all kinds of aquatic weeds such as algae, submerged and even floating plants. Plan to attend the meeting on August 17th at 6:00 p.m. It will be located at the Parsons Southeast Research and Extension Center located

along Highway 400 at the intersection of Ness/32nd Street (25092 Ness Road, Parsons). The meeting will begin with a sponsored meal, and then Lundgren and Lee will give their presentations. The meeting will conclude around 8:30 p.m. Plan to bring questions and concerns about aquatic weeds

or stocking and maintaining the fish in local farm ponds. To register for this free meeting, or for more information, contact Jeri Geren, Wildcat Extension District Diversified Agriculture and Natural Resources Agent by Friday, August 11th, at [jlsigle@ksu.edu](mailto:jlsigle@ksu.edu) or (620) 331-2690.

## Kansas Forest Service to host emerald ash borer workshops in Topeka

Properly caring for Kansas trees has become an increasingly difficult task for our state's foresters, city and county staff, tree boards, and other tree care professionals. The Kansas Forest Service, Shawnee County Research and Extension, and Shawnee County Parks and Recreation are hosting two workshops on Wednesday, Aug. 16 to address the emerald ash borer. The insect, which has been detected in Shawnee and seven other Kansas counties, is a serious threat bringing larger challenges than ever to the state. The afternoon seminar will be in the Preston Hale Room of the Ward Meade Historic Site in Topeka from 1 p.m. to 4:30 p.m. It will focus on the identification of the pest, details of the quarantine in place, and the impact to community forests and governmental budgets. An open forum for participant networking will follow the program. Mayors and council representatives, county commissioners and staff, arborists and horticulturalists, city foresters and park managers, public works officials and staff, landscape architects, and grounds maintenance staff particularly are encouraged to attend the afternoon seminar. Certification hours are available with this training. There is no charge to attend, but all participants should register with the Kansas Forest Service by Friday, Aug. 11 to ensure adequate numbers of handouts and refreshments.

A registration brochure can be found online at [www.kansasforests.org/events](http://www.kansasforests.org/events) and faxed in, or attendees can register by phone at 785-532-3301, or email [rethmank@ksu.edu](mailto:rethmank@ksu.edu). The general public is encouraged to attend the evening session at the K-State Research and Extension Shawnee County office at 6:30 p.m. to learn about the emerald ash borer, how to identify the insect, detect signs of damage, and management options. Homeowners, landowners, and concerned citizens are invited to attend this informational event. There is no cost to attend the evening session, but attendees are asked to RSVP with the Shawnee County Extension office by Friday, Aug. 11 to ensure sufficient numbers of handouts and refreshments. Contact Ariel Whitely, [arielw@ksu.edu](mailto:arielw@ksu.edu) or 785-232-0062. This program is provided by the Kansas Forest Service and K-State Research and Extension in Shawnee County.

For more information on either workshop, contact Kim Bomberger, [kbomberger@ksu.edu](mailto:kbomberger@ksu.edu) or 785-532-3315.



The reserve champion horse at the Geary County Free Fair was awarded to Tava Gustafson for her aged mare. Gustafson was also awarded Reserve Champion showmanship honors.



The grand champion horse showman at the Geary County Free Fair was Jenna Weeks.

## FARM MACHINERY CONSIGNMENT AUCTION

THURSDAY, AUGUST 17, 2017 — SALE STARTS AT 8:30 A.M. SHARP

*Held At Lee Valley, Inc., 6 miles north of TEKAMAH, NE. • We Will Be Running 2-3 Auction Rings All Day.*

**COMMISSION: \$10 minimum, 10% up to \$2,000; 8% \$2,001 to \$5,000 plus 1% on excess over \$5,000. 1/2 commission on No Sale Items. TITLE FEE. FREE LOADING OF MACHINERY FOR 30 DAYS. After 30 days, a \$50 storage and loading fee will be charged. QUALITY OF MACHINERY VERY GOOD. This list subject to change. Call to confirm consignments. Machinery Brought In After Monday, Aug. 14, Will Be Sold Last.**

**TRACTORS:** JD 6210, MFWD, 2012, Cab, Air, 20 spd, PQ, 18.4x46, 14.9x30, 1750 Hrs, w/H380 Ldr; JD 6430 MFWD w/H260 Ldr, 4000 hrs.; JD 8400 MFWD, 18.4x46 Duals & Wts; JD 7820 MFWD, 14.9x46 Duals; JD 7700, 2WH, PQ, 7170 Hrs, 18.4x46; Case 4890, 4100 Hrs, 3Pt, PTO, 20.8x38 duals; JD 4840, 1981 18.4x42 w/duals, QH, TH, 8400 Hrs; AC 7010, Cab, Air, PS; JD 7810 MFWD; JD 4755 2WH, PS, 14.9x46 Duals; Case 2670; JD 2510 Gas, NF; JD 4440 Quad; IHC 986 Cab, Air; JD 4455, 2WH, Cab, Air, PS, 42" - ProjectTractor; IHC 1466, Fenders, 3Pt, PTO; IHC 826, Cab; JD 3020 Gas, Console; Case 1070; JD 2510 Diesel, PS, WF; JD 4020 Diesel, PS; White 2-105, Cab, Air; JD 4010 Diesel, WF, Cab; IHC 460 Utility, Gas, 3Pt, w/Westendorf Ldr; IHC 706 Diesel, Fenders, NF, 2Pt; JD 4020 Diesel, 1965 SALVAGE.

**HAY & LIVESTOCK:** Case IHC DC162 Windrower, 2012 Model; NH BR7090 Round Baler, Net Wrap, Xtra Sweep, Big Tires, 9,000 bales; JD 568 baler, Net Wrap, Mega Wide Big Tires, 14,000 Bales; JD CX15 Batwing, 1000RPM; H&S High Capacity 14 Wheel Rake; NH 1431 Discbine; Wemco Elect. Hyd Flatbed Bale Hauler Unloader; QT 7400 Ldr w/JD 7000 Mts; Rhino SE 415 Batwing; Renn 4 Auger Mixer Feed Wagon; 2-Gnuse Silage Wagon 16T, Big Tires; NH 770 Chopper,2RW & Hay Head w/ Controls; JD 740 Self Level w/MDS Grapple, 7000 Mts; JD 3940 Silage Chopper 2RW; Hesston 30B Stackler; Artsway 425 Grinder Mixer; NEW 60 - 24' Metal Free Standing Panels; NEW 120 - 20' Continous Fencing; NEW 40 - 12' Coral Panels; Arbus 270 3Pt Mist Sprayer; Arbus 27 3Pt Mist Sprayer; Westendorf QT 7' Bucker, w/4Tine Grapple; JD 530 Baler; JD 1600 Windrower; Dual 3100 Ldr w/Grapple & Valves, JD 4020 Mts; Dual 3100 Ldr, IHC 856 Mts; Dohrman 6x12, w/Hoist; 2-Heider Silage Wagon; JD CX15 Batwing, 540 RPM; IHC 1150 Grinder Mixer w/Scale; JD 400 Grinder Mixer; IHC 950 Grinder Mixer; Powder River Manual squeeze chute; Kelly Ryan 4x12 Manure Spreader; Kelly Ryan Auger Wagon; Danuser Post Hole Digger; WINCO PTO Generator 20K; JD 68 Auger Wagon; Dohrman Silage Wagon; DuAl 325 Loader, PTO Pump w/ IHC 460 Mts; Hesston 514 Round Baler; Gehl 14' Pivot Tongue; Blair 5x14 Manure Spreader; NH 56 Rake; Hesston 30 Stack Mover; Dual Loader, IHC 300-400 Mts; IHC 3pt Sickle Mower; FH F11 Loader; JD 350 Elevator 50'; Heider 65 Bu Auger Wagon; JD 38 Sickle Mower; Super Chief Post Hole Digger; IHC 2 Wheel Rake; 20' Feed Bunk; Portable 6x14 Feed Shed; Misc 14-16' Gates.

**GRAIN HANDLING:** Parker 938 Grain Cart w/Scale; Kinze 640 Tarp & Scale; Killbros 1175, Scale, Tarp, Hyd Deflector; Peck 12x92 DD W/PDK 2014 Model; Rem 27 Hundred Grain VAC; Bradford 528 Grain Cart; Buhler Farm King 13x85 Auger w/PDK; Brent 550 Gravity Wagon w/Big Tires; Peck 12x34, PTO; Peck 10x66 DDML, 2010 Model; Westfield MK100-71 Auger; JD 500 w/Tarp; Alloway 10x30 Auger w/7.5HP, Electric; J&M 350 Bu Gravity Wagon; Several Killbros 350 Gravity Wagons; UFT 444 Grain Cart w/Tarp; 300 Bu Gravity w/Side Auger; 300 Bu Gravity w/10T Gear; Dakon 250 Bu Gravity w/12T; Heider 225 Gravity Wagon; Mayrath 8x52 Rebuilt Auger; Peck 8x56 w/Hyd Lift; Farm King Gravity Wagon; Parker 300 Bu Gravity; Sudengae 8x56 Auger; JD 6x10 Wagon w/953 Gear; JD Wood Wagon w/JD Gear; JD 1210A Auger Wagon; Peck 10x31 PTO; Bli 500 Grain Cart; Smeal 500 Grain Cart.

**PLANTING, CULTIVATING & SPRAYING:** Black Machine 12R30/13R15, w/JD VAC Units, Trash Wheels, DJ 3000 Monitor; JD 7000 6RN w/Yetter Row Cleaners; Tyler 5th Wheel TA Stainless Steel Dry Spreader; 1600 Gal Stainless Steel Truck Mt Tank; Fast 1000 Gal Sprayer, 60" w/Hyd Pump, Tall Tires w/controller; 500 Gal JD 8000 Sries Frt Mt Tanks; IHC 183 Cultl 6RN; 500 Gal Tandem Axle 24' Sprayer; 300 Gal 3Pt Sprayer; Noble 6RN Danish Tine; BH 8RW Danish Tine; JD 400 Rotary Hoe 4RW; Fast 40' 3pt Spray Boom; IHC 153 Cultl 4RW; IHC 153 Cultl 6RN; Nobel 12RN Danish Flat Fold; Asgrow Seed Tender; Friesen 110 Seed Tender.

**CONSTRUCTION:** Garfield 1150 Scrappier-LIKE NEW; Cat T80 C Forklift 8000#, 2 Stage Mast, Side Shift, Hard Ground Machine; NH 170 Skid Steer, 2008, 800 Hrs, Cab Enclosure; Soilmover 500 RF Scrappier LIKE NEW; Case 580 B Loader Backhoe; MF 3165 Loader Backhoe, 2WH, Cab, Gas; IHC 260 Loader Backhoe; Bobcat 371 Skid Steer, Kohler 16HP; Rouse 700 Scrappier; NEW 120R Road Grader; NEW IA Box Scrappers - 7,8,10 & 12'; NEW IA Tree Post Puller; NEW IA 190 Hyd Blade, 3Pt;

NEW IA 180 Hyd Blade 3PT; NEW Allied 15012 Hyd Blade; Soilmover 2.5 Yd Scrappier; Melroe Bobcat M-500; Gehl 4640 2012, 2900 hrs., cab, heat; Soilmover 50RF; Semi Load of NEW Skid Steer Attachments, Pallet Forks, Hyd Augers, Grapple & Rock Buckets, Tree & Post Puller, Tires.

**TRUCKS, TRAILERS & VEHICLES:** 2001 Jet Co Grain Trl 42'; 2016 D & D Gooseneck Tandem Dually 32' w/pop up ramps; 2007 Frtl Columbia Mercedes, 10 Spd; 1977 Chevy C75, 454, 5&2, 62,000 mi, 20' steel grain box w/Tarp, Hyd Lift Tag; 1981 Ford F700, 371 Gas, SA, 60,000 mi. w/18' Steel Grain Box & Hoist; 1989 Ford F800 Fire Truck, 474 Diesel, Auto, 28,000 mi, TOYNE 2000 gal tank, 450 gal pumps; 1965 Ford F600 Fire Truck, 330, 5400 mi. w/LuVerne Fire Body, Wisconsin Pump, Parade Ready, like new; 1988 Chevy C65, 20' box, tarp, lift axle; 1974 Chevy C65, 366, 5&2, 16' Wood Box, Twin Hoist, 32,300 mi.; 1978 Ford F600, 361 gas, 4&2, 64,000 mi. w/16' Grain Box & Hoist; 1980 Ford F700 429 Gas, 90000 mi. w/18' Steel Grain Box & Hoist, Tarp, Hyd Lift Tag axle; 1973 IHC Paystar Dump Truck, 16' Alum.,Gravel Box, Twin Screw,w/Air Lift Axle, Cummins 13spd; 1985 GMC 6500 w/14' Flat Bed, SA, Cat Diesel; 1980 Timplte 40' Grain Trl; 1996 Standard Steel Tanker 7000 gal; 2017 Tiger 20' Trl 6000# Axle; 2016 Maxey 20' Tipping Trl, 7000# Axle; Big Tex 12' TA Utility Trl, w/Fold Ramps; 1975 Ford Feed Truck w/Oswald Mixer, Feed Body; 1970 Ford F600, V-8, 4&2, 15.5' Omaha Comb. Box & Hoist; 1972 Ford C750 Fuel Truck, V-8, 5&2, Twin Pump & Hoses; 1971 Chev C-60, 366, w/18' Grain Box & Hoist, SA w/ Side Boards; 1992 Diamond D Gooseneck 7x20 Livestock; 1987 Ford F350 w/Flat Bed; IHC Hyd Tip Gooseneck Trl; 25' Gooseneck Flatbed w/pop up Ramps; 1988 WV 6x20 Gooseneck Livestock Trl; 1968 Chev C50, 18' Box & Hoist; 1991 Ford F150 Lariat 4x4; 1995 Dodge 1500, 5.9 gas, 4x4 Auto; Featherlite 8' Utility Trl; 2000 Ford Ranger 4x4, 120,000 mi; 1998 Ford Ranger, 4x4 Auto, SALVAGE TITLE; Suzuki 750 Motor Cycle; BAHN 196cc Motor Bike; 18' Utility Car Trailer; 1990 GMC 1/2T, 4x4 Salvage.

**HARVEST:** JD 9860, 2007, Duals, Chopper, Spreader, 2046 Hrs, 1273 S; Case IHC 1660, 1992, Cummins, Chopper, Tracker Drive Shaft Spreader, Been thru inspection; NH CR960, 2006, Duals, Chopper, Spreader 2341 Hrs, Field Ready, Flagship; Case IHC 1660, Field Tracker, Yield Monitor, Chopper, Chaff Spreader, bin Ext.; Case IHC 3162 30' Draper Head, 2015; JD 625F, 2013, Flex Head; JD 630F; Case IHC 1020 25' w/Crary air reel; Case IHC 2020 30' Flex, 2009 w/Crary air reel; NH 996 8RN Cornhead, Plastic; Case IHC 1020, 20' w/ Tracker Drive; JD 843 w/Kelderman Corn Reel; JD 643 OD; JD 925 Flex, Poly Snouts; AC 6RN Hugger Cornhead; Case IHC 2206 Cornhead; IA 836R Head Trl; IHC 844 Cornhead; NI 311 Corn Picker; IA 440 Header Trl, NEW; IA 435 Header Trl, NEW; IA 425 Header Trl, NEW; JD 1075 Header Trl; Unverferth HT25 Header Trailers; Wemhoff 26' Header Trl; J&M 25' Header Cart; 30' Header Trl; JD 6620 Side Hill.

**TILLAGE:** JD 637 26.5' Disk w/harrow, 24" Blades; JD 512 22.5' Disk Ripper; JD 220 8RN Flail Shredder; Case IHC 496 25' Disk, w/ HD Summers Harrow; JD 960 30' FC; JD 915 Ripper 7S w/Caddy; Case IHC 3950 30' Disk; Krause 1592 18' Disk; Krause 3950 22' Disk; JD 215 14' Disk; AC 2300 17' Disk; Blue Jet AH 13 Knife; Buffalo Rolling Stalk Shredder; IHC 4600 24' FC; Kewanee 1020 Disk; IHC 496 22.5' 7.5 Spacing; Brady 3550 27' FC; IHC 490 25' Disk; JD BWA 14' Disk; IHC 510 Plow, 5-16 w/harrow; JD 5B Steerable Plow; Alloway 20' 3pt Flail; JD 12' Springtooth Harrow; JD 4000 Disk.

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Some items will be available on Proxibid. Check our website for details!

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**TERMS & CONDITIONS:** Cash or good check. No property to be removed until settled for. All items to be paid for during or at close of auction. Not responsible for accidents, lost or stolen items. Financing available with prior approval. **TRADING DAILY — LIST SUBJECT TO CHANGE.** This is a partial listing as we are expecting a lot more machinery by sale time. If you have machinery to sell, call us. We have good loading and unloading facilities with trucking available to and from the sale. We have consigned a lot of good local farm machinery, including some complete farm sales. We will take consignments up to sale time. **AS IN THE PAST, WE ONLY ACCEPT CONSIGNED ITEMS THAT WE THINK WILL SELL. IF YOU HAVE BEEN TO OUR SALES IN THE PAST, YOU KNOW WE SELL MACHINERY.** MOTEL ACCOMMODATIONS: Tekamah Motel, Tekamah, Nebr., 402-374-9954; Super 8 Motel, Onawa, Iowa, 712-423-2101; Super 8 Motel, Blair, Nebr., 402-426-8888. **AIRPORT FACILITIES AT TEKAMAH.**

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# Auction Sales Scheduled

August 8 — Tractors, combine, trucks, machinery & other held near Hunter for D. Eugene Tuttle. Auctioneers: Thummel Real Estate & Auction, LLC.

August 9 — Farm & livestock equipment, tractors, combine, trucks, pickup, other farm items, irrigation equipment near Dighton for Joe Hanks Trust. Auctioneers: Berning Auction, Inc.

August 10 — Vehicles, motorcycles, household, antiques & collectibles, sewing & craft items & more at Manhattan for KDOR & Local Estate. Auctioneers: Ruckert Realty & Auction.

August 11 — Guns, ammo, reloading, outdoor, hunting, fishing, tractor, equipment, mower, lawn, garden & shop, collectibles, antiques, collectible furniture, furniture & household & more at Emporia for Noel Mintz Estate. Auctioneers: Hancock Auction & Real Estate.

August 11 — 314 acres ± Washington County land held at Morrowville for Brent & Roxanne Stutzman. Auctioneers: Schultis & Son, Inc. Real Estate & Auction Service.

August 11 — Absolute real estate (2BR house) held at Seneca for Regis J. Becker Estate. Auctioneers: Wilhelm Auction Service, Seneca Real Estate Co.

August 12 — Furniture, appliances, coins, collectibles, West German Hummel clock, quilts, Daisy BB gun in box, Depression glassware & misc. at Junction City for Earl & Shirley Gray Estate & others. Auctioneers: Brown Real Estate & Auction Service, LLC.

August 12 — Antiques, primitives, collectibles, windows, doors, porch posts, furniture, old cigarette machines, old Coca Cola pop coolers & more at Portis. Auctioneers: Wolters Auction & Realty.

August 12 — Vehicles, tractors, Caterpillar, machinery, toys, single cylinder engines & collectibles at Seneca for Regis J. Becker Estate. Auctioneers: Wilhelm Auction Service.

August 12 — Extra nice one owner ranch-style home on large 3/4-acre corner lot; Oak Grandfather clock, furniture & misc. at Topeka for Edgar W. Tibbs. Auctioneers: Gannon Real Estate & Auctions.

August 12 — Farm equipment, machinery, trucks, farm tools & more at Lyons for M/M Don Goodfellow. Auctioneers: Stroh's Real Estate & Auction.

August 12 — Farm auction inc. tractors, combine, trucks, farm machinery, pickup, gooseneck trailer, tools & more at Solomon for Dave & Donna Emig. Auctioneers: Ron Shivers Auction Co.

August 12 — Pedal tractors, lighted neon signs, farm toys, advertising signs, collectibles, coins at Lawrence for Private sellers. Auctioneers: Elston Auctions.

August 12 — Tractors, trucks,

farm machinery at Moundridge for Wayne & Laurie Schrag. Auctioneers: Van Schmidt Auction.

August 12 — Antiques, collectibles & tools for Bob Kastrup; Guns, jewelry, toy guns & collectibles, trailer, generator, yard equipment for Richelle & Danielle Russell held at Jewell. Auctioneers: Thummel Real Estate & Auction, LLC.

August 12 — Estate auction: full line of mostly late model farm machinery at Frankfort for Dan Studer Estate. Auctioneers: Joe Horigan.

August 13 — Furniture, collectibles & misc., tools & more at Council Grove for Louann Rogers. Auctioneers: Hallgren Real Estate & Auctions, LLC.

August 13 — Collectibles, primitives, vintage Avon collection, vehicle, firearms & misc. at Lawrence for Gladys Walters Estate & Family. Auctioneers: Elston Auctions.

August 14 — Ranch & land auction (8,000 m/l acres) held at Sharon Springs for Spring Valley Ranch. BARigby Auction.

August 15 — 5,150 m/l acres Hamilton & Kearny counties sold in 10 tracts & combinations held at Lakin for Englert Farm & Ranch. Auctioneers: Hall & Hall.

August 17 — Store fixtures, cabinets of all kinds, showcases, displays, racks, file cabinets & much more at Hunter for Hunter Meat Market, Oliver Dean Kralicek. Auctioneers: Thummel Real Estate & Auction, LLC.

tion, LLC.

August 17 — Tractors, hay & livestock, grain handling, planting, cultivating & spraying, construction, trucks, trailers & vehicles, harvest, tillage, antique machinery & miscellaneous held North of Tekamah, Nebraska for farm machinery consignments. Auctioneers: Lee Valley, Inc.

August 18 — 500 acres m/l of Land in 4 tracts, equipment, 2BR home in Caldwell/Livingston County, Missouri held at Braymer, Missouri for Lee Anderson Estate. Auctioneers: Sewell Auctions Service.

August 18 — Combines, tractors, livestock equipment, loaders & construction, corn & grain heads, grain handling equipment, hay equipment & mowers, tillages, trucks, trailers, collectible tractors & misc. at West Point, Nebraska for West Point Implement, Inc. inventory reduction. Auctioneers: Michael Wegner Implement Auction.

August 19 — Real estate (approx. 80 acres farm & grassland & 4BR home); furniture, antiques, primitives, collectibles, appliances, tractor, 4-wheeler, lawn mowers, tools, misc. household held near Osborne for Margaret L. Vanscyoc Trust. Auctioneers: Wolters Auction & Realty.

August 19 — Real Estate, 12.2 acre tract, 3BR, 1 BA home, barn, utility building; antique furniture, antiques & collectibles, household & more held just North of Alma for Joan Otts Estate. Auctioneers: Gannon Real Estate & Auction, LLC.

## ESTATE AUCTION

SUNDAY, AUGUST 13, 2017 — 10:00 AM

1512 North 1175 Rd — LAWRENCE, KANSAS

South of 31st Haskell 1 Mile to Auction! WATCH FOR SIGNS!

COLLECTIBLES, PRIMITIVES & MISC.

"The Mandel" Phonograph w/ cabinet; 1950's Pabst Blue Ribbon "What'll You Have" Light w/ Original Box!; 1950s Mint Green Dr. Pepper chest cooler 55 x 36 x 32; 1955 Wild Bill Hickok & Jingles Aladdin Lunch Box w/Thermos; 1957 Aladdin Jet Patrol Thermos; Ideal #3848 Mechanical Mixer w/box; Marx Junior Typewriter; Wolverine Pink Stove & Refrigerator; Gilbert #10011 Erector Set; Walt Disney & Easy-Do puzzles; Beatles 45's and others; 1968 Jim Beam Elephants; 1960's decanters; vintage Harley Davidson steins (NIB); many other NIB steins; **Vintage Avon Collection:** 100s of Avon items from bottles, glassware, jewelry, and much more!; Avon Cape Cod Red dishes, Avon Chiefs/Winchester bottles; 100s pieces of costume jewelry (sterling); Lu-

Ray dishes; carnival dishes; pottery; Sam Miguel Boxer dog figurine; Homer Laughlin & Gold Leaf Craftsman place settings; variety oil lamps; BAR light lamp; Vintage Oak Settee; primitive kitchen cabinet w/punch board sides; primitive wooden kitchen table w/leaves & five chairs; treadle sewing machine; 2 Oak round pedestal style dining tables w/leaves; oak matching spindle chairs; end tables; Nostalgia electric popcorn machine; household décor; 100s Beanie babies; CD's; many many box lots; **numerous items too many to mention!!!**

VEHICLE & FIREARMS

1997 Ford Explorer XLT; Beretta Bobcat Model 21A revolver w/ holsters; Derringer 2 shot revolver w/holster; Glenfield Model 60 22 Rifle; Marlin Lever Action Model 336 RC w/Scope; Firearms Will Sell First & ALL ATF Rules Apply KS Resident ONLY!

**Auction Note: Many unlisted items Collectibles as the Family is still unpacking! Day of Auction Inspection Only! Plenty of Shade! SELLER: GLADYS WALTERS ESTATE & FAMILY**

Auctioneers: ELSTON AUCTIONS • (785-594-0505) (785-218-7851)

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## AUCTION

THURSDAY, AUGUST 17, 2017 — 5:00 PM

Auction will be at the store located on Main Street in HUNTER, KANSAS

### STORE FIXTURES

Ribbon cabinet; 2-2 section cylinder roll hat displays unusual; 10 drawer store cabinet; 4 section cookie case; 2 meat blocks; Star Twist spool cabinet; Star Twist embroidery cabinet; Bove embroidery hook cabinet; small ribbon cabinet; Wrights ribbon cabinet; store spice cabinets; pegged double sided shoe chair; shoe stool; Correct Way linoleum rack; Hunt pen display; 8' show case; signs inc: Wolverine Boots & Shoe, Clark Threads Zipper & Tape, Coca Cola, other; wooden ladder on rail; display cabinets; oak side board; treadle sewing machine;

**Note:** This store was started by Wick Brothers in 1917, The Kralicek family purchased the store in 1942, the store closed in 2010. There are many unique and unusual store items. This is one of the last old time grocery stores. For pictures check our web site at [www.thummelauction.com](http://www.thummelauction.com). THE HUNTER CAFE WILL BE OPEN AND SERVING MEALS AT THE AUCTION.

HUNTER MEAT MARKET • Oliver Dean Kralicek

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

material measure; Standard store scale; 3' tall 16' pine store table; many wire store displays; Rainbo bread rack; shopping baskets & carts; shoe holders; other store holders; Keystone beer advertising; string holders; pine storage box; hat stretcher; small brass fan; wooden funnel; brass fire extinguisher; "The Delphos" gas can; thermometers; vinegar barrel pump; paper racks; wooden shirt drawers; wooden advertising boxes inc.: climax tobacco, HD Lee, National Biscuit, others; cookie & candy box top displays; new collar boxes w/ collars; 50+ pair 1920's & 30's new ladies shoes; laced high

tip children shoes; suspenders; platform scale; wooden keg; pop bottles; candy jars; bushel baskets; aluminum pans; 2 & 4 drawer file cabinets; foot lockers; car horn; wooden egg cases; 48 star flags; Pepsi trash cans; meat grinder; knife sharpener; stainless steel sink; stainless steel table; butcher tools; walk in cooler to be taken apart; unloading roller track; bench grinder on stand; large floor safe; 1 section scaffolding w/wheels; pallet jack; 8' step ladder; shelving lumber; Craftsman riding lawn mower; 3 wheel bike; many other displays and fixtures.

### Grass & Grain, August 8, 2017

Auctions.

August 19 — Vintage furniture, collectibles, 100s of pieces of glass & pottery, books & more at Lawrence for John D. Jr. & Mary Clark Estate. Auctioneers: Elston Auctions.

August 19 — Real Estate (2.1 acres m/l Sedgwick County, 3BR farm house), farm related items, furniture & household at Valley Center for Duane & Bella Sanders Trust. Auctioneers: Van Schmidt Auctions.

August 21 — 376.90 m/l acres of Pratt County cropland held at Pratt for Joe & Marsha Johnson Trust. Auctioneers: Hamm Auction & Real Estate.

August 24 — Real Estate: 1.45 acres and 6.04 acres zoned agriculture land held at Manhattan for Kansas State University. Auctioneers: Gannon Real Estate & Auctions.

August 24 — Antiques & collectibles at Belleville for Marge & Gene Waring. Auctioneers: Thummel Real Estate & Auction, LLC.

August 24 — 159.58 acres m/l of Barton County land held at Ellinwood for John Pflugi. Auctioneers: Midwest Land & Home, Mark Uhlik, Jeff Dankenbring.

August 26 — Trucks, tools, furniture, antiques, yard & misc. at St. George for Richard Powell Estate. Auctioneers: Crossroads Real Estate & Auction, LLC.

August 26 — Nice 4BR 3 1/2BA home on approx. 5 1/2 acres; 1948 Farmall Cub tractor, 1990 GMC Sierra 350 pickup, zero turn riding mower, riding mower, Cub Cadet, tools, equipment, coins, furniture,

Hummel figurines, antiques at Silver Lake for Orville & Janet Martinek. Auctioneers: Gannon Real Estate & Auctions.

August 26 — Farm toys, collectibles inc. Sun 45 records "Johnny Cash" & "Jerry Lee Lewis," Coke collectibles, Sunbeam advertising, pottery, glassware, granite & much more at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

August 26 — Tractor, lawn mower, vintage collectibles & vintage glassware, vintage furniture & furniture, household, misc. at Lawrence for James "Vic" & Ruby Wells Estate. Auctioneers: Elston Auction.

August 27 — Camper, mower, boat & tools, guns, household, collectibles at Salina for Don & Dorothy Plowman. Auctioneers: Thummel Real Estate & Auction, LLC.

August 28 — 186.49 m/l of Kansas farm & pasture land held at Ottawa for Robert S. & Betty J. Hill Trusts. Auctioneers: United Country Real Estate Crossroads Auction & Realty.

September 2 — Farm equipment auction at Salina for Jim & LaVonne Farney. Auctioneers: Omli & Associates, Inc.

September 4 — Harley Gerdes 22nd annual Labor Day Consignment Auction (farm & construction machinery items & much more) at Lyndon. Auctioneers: Harley Gerdes Auctions.

September 9 — Large GM Parts Auction: 100s of engine blocks, heads, manifolds, carburetors, tools & high per-

### Page 15

formance items held North of Abilene for John Rein Estate. Auctioneers: Reynolds Auction Service.

September 9 — Power equipment, trailers, metal lathe, welders, tools, generator, carport, welding table, iron, wood, stove, outdoor items, household, collectibles & more at Blue Rapids for Joe & Linda Haecker. Auctioneers: Donald Prell Realty & Auction, LLC.

September 9 — Real Estate & household at Waterville for LaVerna & (Tom) Arganbright. Auctioneers: Olmsted & Sandstrom.

September 9 — 100+ collectible farm toys inc. Caterpillar, John Deere, Farmall, International, die cast in box & more, 1947 Chevy pickup in restoration process, antiques & collectibles, shop tools & equipment, large variety of auto parts & more at Bennington for Chuck Johnson Estate. Auctioneers: Royce Bacon Auctions.

September 16 — Real estate (3BR, 2 1/2BA home on 5 acres m/l) & personal property at Wamego for Delta Alt. Auctioneers: Crossroads Real Estate & Auction, LLC.

September 23 — 423 acres m/l McPherson County cropland held at McPherson for LLZ, LLC. Auctioneers: Midwest Land & Homes, Jeff Dankenbring & Mark Uhlik.

October 25 — Fink Beef Genetics Angus and Charolais Bull sale at Randolph.

November 16 — Clay County Real Estate for Helen Schurle Trust in Green, KS. Auctioneers: Greg Kretz.

## PERSONAL PROPERTY AUCTION



SUNDAY, AUGUST 13, 2017 — 12:30 PM

MORRIS COUNTY 4-H BUILDING, 612 US HWY. 56 • COUNCIL GROVE, KS

DIRECTIONS: 1 mile east of Council Grove on US Hwy. 56. WATCH FOR SIGNS.

**FURNITURE:** 2 oak lawyers bookcase 2 section; large oak roll top desk; pine curved glass china cabinet; oak cradle; toy chest; wood boxes; brass bed; Adler sewing machine, commercial; oak pedestal table; 6 oak press back dining chairs; oak buffet; oak lamp & end table; over stuffed sofa; Vissio 46 inch flat screen TV, 6 yrs old; oak bookcases; sewing machine cabinet; large quilting frame; oak chest; Singer treadle sewing machine in oak cabinet.

**COLLECTIBLES & MISC.:** large selection of Porcelain dolls; small metal kitchen cabinet; wood bench; vintage transit & tripod; metal cultivator; various primitive tools; CI kettle; milk can; steel wheels; wash tubs; metal lawn chair; 33 records; die cast cars; numerous animal figures; various glassware.

**TOOLS & MISC:** Shop Smith Mark V Md. 520 with attachments; wheel barrow; Craftsman gas string trimmer; Craftsman 12 in. table saw; Homelite chain saw; pull type lawn spreader;

tool chest; pan air compressor; Craftsman 12 inch band saw; bar clamps; C clamps; battery charger; bench grinder; scaffold; numerous shop cabinets; Power house 5000 watt generator; Delta 6 inch joiner; Werner 6ft fiberglass stepladder; chain saw chain sharpener; drill press; Craftsman scrolling saw; Swordfish pipe threader; Craftsman level; Ryobi detail biscuit joiner; Craftsman route; new router bits; hand tools of all kinds; large selection misc. kitchen & household items.

**AUCTIONEER'S NOTE:** This is a partial list. Shop is too full to find what is there until we load out. Lots of surprises!

LOUANN ROGERS

**Terms:** Cash or Good Check. Not Responsible for Accidents. Statements made day of auction take precedence over printed material.



Lunch available.

**HALLGREN REAL ESTATE & AUCTIONS, LLC**

ALTA VISTA, KANSAS • 785-499-5376

GREG HALLGREN

785-499-2897

JAY E. BROWN

785-223-7555

e-mail: [ghallgren@live.com](mailto:ghallgren@live.com)

[www.hallgrenauctions.net](http://www.hallgrenauctions.net) • [KSAllink.com](http://KSAllink.com)

## AUCTION

SATURDAY, AUGUST 12 — 10:00 AM

Auction will be held in the Community Center on the South side of the square in JEWELL, KANSAS

ANTIQUES, COLLECTIBLES & TOOLS

Oak corner china cabinet; oak & maple curved glass china cabinets; short oak china cabinet; Drago Page Lincoln, Ks blue band bowl; 3 gal Red Wing crock; 80 bowls w/flower frogs & seagulls, Herons, Red Wing, Jade, Bashful Charlotte; 11 tumble ups; 30 eye wash cups; large punch bowl w/12 cups; lead glass bowls & pitcher; Fenton pieces; shot glasses, horse glasses, pheasant glasses; John Wayne plates; chicken collection 90

hen on nests, egg plates, salt & pepper; 25 Clydesdale figures; 12 sculpture horses; 10 Breyer Clydesdales; other horse figures; incolay jewelry box; assortment jewelry (East German, broaches, ear rings, green atlas stone necklace); beaded purse; baby blankets; 9 quilts; linens; lace table cloths; hankies; tea towels; table cloth; aprons; Case IH 8950 pedal tractor & trailer; belt buckles (Case IH, Barlow, Kansas); 40 hunting & pocket knives (Camillus, G96, Barlow, Imperial, Bucklite Tool, Winchester,

Eddie Bauer); 15 Franklin Mint knives w/show case; 10 post office doors from Glen Elder; coin changer; John Wayne coins; Traders State Bank w/Wacona Springs picture coins by Jim Nelson; child's iron; bottle openers; 37" x 21" floor safe; **TOOLS:** Craftsman 27" tool cabinet; Test Rite roll around tool chest; gas post hole digger; **many new Craftsman** drills, tool sets, wrench sets; Snap On sockets & wrenches; pipe wrenches; boomers; light bulbs; wiring; many new tools.

BOB KASTRUP

GUNS, JEWELRY, TOY GUNS & COLLECTIBLES

Winchester model 12 full choke; Forehand Arms 12 ga side by side; Winchester 1876 buffalo gun not complete; 22 rifle; Red Ryder BB gun; 30+ cap guns inc (Fanner 50, Dick Tracy w/holster, Texan, Army 45, Capitan, others); bronze Dough Boy statue; orange army helmet; **Jewelry** inc.: 25 rings some 14k w/

diamonds, pendants, cuff links, bolo ties; belt buckles some sterling; 1930 Postal fob; Santa Fe Route fob; The First Century of Studebaker token; ivory billiard balls; tin Jumpin Jeep; toy gatin gun; beaded purse; Beani & Cecil purse; Bild Lili German doll; Bond Bread ink blotters; bull whip; set steer horns; wood radio; globe; Polaroid camera; Christmas items; miniature trunk; lunch boxes;

granite ware; food dehydrator; metal detector; 2 & 4 drawer file cabinets.

**TRAILER, GENERATOR YARD EQUIPMENT**

6000 watt generator new; H&H 2 wheel trailer w/ramp 5 1/2'x8'; Weed Eater 5hp rear tiller; Ariens ST524 snow blower; Mantis tiller; Craftsman power washer; battery charger; yard wagon; wheelbarrows; yard tools; handyman jack; patio table & chairs.

There are many very nice collectables. We will sell guns first, we will sell tools and jewelry at the same time. Check our web site for pictures at [www.thummelauction.com](http://www.thummelauction.com).

RICHELLE & DANIELLE RUSSELL

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



# Higher hay prices on the horizon

Global forage demand is seeing a significant escalation, leaving U.S. alfalfa and other hay producers in a good position and U.S. beef producers searching for alternatives. In a new report from the RaboResearch Food and & Agribusiness group, Dairy Analyst James Williamson

explores the source of the demand. The report, "Foraging for Higher Prices," finds seven states – Arizona, California, Idaho, Nevada, Oregon, Utah and Washington – produce 18 percent of U.S. hay and nearly 90 percent of U.S. hay exports. Throughout 2015 and

2016, lower milk prices for U.S. dairy producers, coupled with weather-related forage quality issues, resulted in building hay stocks and downward pressure on hay prices. "This downward pressure on prices isn't the end of the story," notes Williamson. "We've seen the

top six hay importers – responsible for buying over 95 percent of U.S. hay exports – increasing their import volumes and paying a premium for higher-quality hay, supporting prices at their current levels. As a result, prices will likely continue moving in an upward trend."



# BAXTER BLACK

ON THE EDGE OF COMMON SENSE

## Parakeets and Dogs

Most of us who deal with animals on a regular basis are familiar with the books of that well-loved veterinarian and author of *All Creatures, Great and Small*, James Herriot. He seems to embody everybody's image of the kindly, competent country practitioner. Occasionally wrong, but always well-intentioned.

Vets are often called on to minister to the needs of the owner as well as the patient. Dr. Herriot told one story that is a variation of a tale not unheard of by many veterinarians, regarding a blind woman's parakeet. The parakeet sat in his cage and sang. He was the old lady's sole companion.

Dr. Herriot was called to her house one day with the complaint that Perry wasn't

eating. Doc withdrew Perry from his cage and reassured Missus that his beak was overgrown. He could fix it in a jiffy. Missus was so relieved. She loved Perry's singing so much. Doc carefully snipped the beak and when he went to replace the bird in his cage, he made the startling discovery that Perry was dead as a crowbar!

The rest of the chapter involved Dr. Herriot's mad search to find a live replacement for Perry with the genuine intention of preventing the blind lady from suffering distress.

It doesn't just happen to vets! A pet shipping container arrived at the big city airport. As it was wending its way through the bowels of the baggage facility, one of the employees peeked into Skipper's cage. She immediately removed the dog crate and called her supervisor. After some gentle nudging with a short stick they agreed that Skipper was stiff as a two-by-four and was, in fact, dead!

A crowd of baggage handlers gathered. They were terribly concerned. They were discussing who to blame when one of the men said his neighbor was feeding a stray that was the spitting image of Skipper! He was sent to get the dog at any cost while the supervisor went out front and stalled the passenger.

Within an hour they had switched collars, stuffed the stray in the carrier and Skipper in a sack.

"That's not my dog," said the disgruntled passenger.

"Well, sure it is, ma'am," asserted the supervisor.

"Nope. That's not Skipper."

"He came in this carrier checked from Des Moines. It says so right on the tag here!"

"Not him!"

"Look! He's waggin' his tail! He's wearin' his collar! It's got to be your dog!"

"Sure isn't," she said, "My dog's dead!"

www.baxterblack.com

**RANCH & LAND AUCTION**  
Monday - August 14 - 1PM  
**SPRING VALLEY RANCH**  
Sharon Springs, Kansas  
*Held At: Sharon Springs Event Center*  
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Tract 1  
1277.5 Ac

Tract 5  
636.3 Ac

Tract 7  
634.2 Ac

Tract 2  
619.6 Ac

Tract 6  
315.7 Ac

Tract 3  
621.8 Ac

Tract 4  
474.8 Ac

Tract 13  
192.5

Tract 11  
527.3

Tract 10  
219

Tract 9  
161.4

Sharon Springs

RANCH ENTRANCE


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**Reduced Special Pricing**

**WHITE STAR**


**Bobcat S570/S590 Skid-Steer Loader**  
• 61-66 hp, 1950-2100 lb rated operating cap, 68" wide, 10' dump height

Year	Make	Stock #	Options	Hours	Location	Regular Price	REDUCED
2015	S570	1108902	A71 SJC TS	475	Manhattan	\$41,874	<b>\$31,600</b>
2015	S590	1102868	A71 SC TS	245	Manhattan	\$43,702	<b>\$32,975</b>
2015	S570	1102869	A71 SJC TS	635	Manhattan	\$42,282	<b>\$31,925</b>
2015	S570	1102632	A71 SC TS	235	Manhattan	\$41,494	<b>\$31,325</b>
2015	S590	1100820	A71 SJC TS	704	Wichita	\$41,196	<b>\$31,100</b>
2015	S590	1104004	A71 SC TS	198	Manhattan	\$43,973	<b>\$33,180</b>
2015	S590	1108236	A91 SC	30	Manhattan	\$44,583	<b>\$33,650</b>
2015	S590	1098805	A71 SC TS	699	Garden City	\$39,938	<b>\$30,150</b>



**Bobcat S650 Skid-Steer Loader**  
• 74 hp, 2690 lb rated operating cap, 74" wide, 10' dump height


Year	Make	Stock #	Options	Hours	Location	Regular Price	REDUCED
2015	S650	1103415	A71 SJC TS	880	Manhattan	\$45,067	<b>\$34,200</b>
2015	S650	1108109	A71 SJC TS	640	Manhattan	\$46,990	<b>\$35,450</b>
2012	S650	1056314	A71 SC TS	1297	Wichita	\$37,075	<b>\$28,000</b>
2015	S650	1115991	A71 SC TS	750	Manhattan	\$45,095	<b>\$34,025</b>
2015	S650	1100008	H51 SC TS	660	Wichita	\$43,299	<b>\$32,950</b>
2015	S650	1104003	A91 SC	710	Garden City	\$45,265	<b>\$35,485</b>
2015	S650	1101270	A91 SJC	400	Wichita	\$46,082	<b>\$34,825</b>
2012	S650	1055526	A91 SC	1745	Garden City	\$37,875	<b>\$28,600</b>
2015	S650	1103416	A91 SC	560	Manhattan	\$50,286	<b>\$38,100</b>
2015	S650	1106334	A91 SJC	230	Manhattan	\$49,295	<b>\$37,175</b>



**WOW!**

**Bobcat S750/S770 Skid-Steer Loaders**  
• 85-92 hp, 3200-3350 lb rated operating cap, 74" wide, 11' dump height

Year	Make	Stock #	Options	Hours	Location	Regular Price	REDUCED
2015	S750	1110988	A91 SC	230	Manhattan	\$59,475	<b>\$44,800</b>
2015	S770	1112651	A71 SC TS	375	Manhattan	\$58,795	<b>\$44,985</b>
2015	S770	1112538	A71 SC TS	475	Manhattan	\$59,950	<b>\$45,175</b>
2015	S770	1123847	A91 SJC	276	Wichita	\$54,450	<b>\$41,050</b>




**OPTIONS KEY**

**A71:** Cab H/AC, Power Bobtach, Sound Reduction  
**H31:** Cab w/ Heat Only  
**SJC:** Joystick Controls

**A91:** A71 plus High Flow, 2-Speed, Bucket Positioning, Block Heater  
**H51:** H31 plus Power Bobtach  
**SC:** Standard Controls (stick & pedal)

**H71:** H51 plus Sound Reduction  
**TS:** 2-Speed

**Bobcat**

HURRY, at these prices, they will go fast! Items struck through are sold.  
Call for more details, financing and other options. Any upgrades are subject additional costs. Exclusions may apply.  
Attachments not included. Shipping not included. Specifications may be approximate. Mention this ad for special pricing.

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