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Workforce needs addressed at Kansas Ag Summit

By Donna Sullivan, Editor

A qualified, trained, dependable workforce is vital to all industries, and agriculture is no exception. The lack of a skilled workforce has been identified as a top inhibitor of growth and expansion for many ag businesses in the state, and the Kansas Department of Agriculture has committed to addressing the issue. They began by conducting the first Kansas Agriculture Workforce Needs Assessment Survey in 2016, which received 250 responses that were then analyzed by the Agricultural Land Use Survey Center at Kansas State University.

The results of the survey, along with a panel discussion about the challenges and opportunities facing the agriculture workforce, made up the noon lunch presentation at the Kansas Ag Summit held August 30 in Manhattan.

Results of the study indicated that 36% of the respondents currently have vacancies and 36% of those vacancies are entry-level positions. Nearly 44% of the respondents said they intend to expand in the next three years and about 24% of the vacancies created through the expansion will also be entry-level positions.

When asked about the skills applicants tended to lack, the respondents listed critical/analytical thinking and basic communication/writing skills as the most common "hard" skills candidates were deficient in. Motivation, time-management and dependability were the three most common "soft" skills they lacked. Written communication and applied mathematics were the main basic skills the survey identified as areas of concern.

The ability to provide a stable workforce is key in attracting companies to the



Gov. Sam Brownback discusses the importance of agriculture to the Kansas economy at the Kansas Ag Summit held August 30 in Manhattan.

Photos by Donna Sullivan

state, and the panel discussed the strengths Kansas has to offer as well as some of the obstacles that need to be overcome.

"Being a company that does business all over the world, we do get quite a few perspectives of what's great and what the challenges are," said John Niemann, president of Cargill Turkey and Cut Meats. "The big challenge for Kansas is those who don't live here or haven't worked here don't understand it and don't appreciate it. Once they do, they don't want to leave." Niemann referenced Cargill's decision in May to retain its protein division in Wichita after moving it had been discussed. "The leadership of the state stepped in and were very proactive," he said. "The learning out of that is, it was almost too late, in that we weren't proactive enough with each other." Niemann believes Kansas needs to be as aggressive as other states in pursuing people. "Once we get people here, we find that probably 90% of them say it's a great place to live and work. But we aren't doing a good enough job of promoting what we have here. There are other states that are very aggressive. They tell their story and they get after it." Niemann stated that Cargill found that the real essence of where they belong as a protein business is Wichita. "It's now our job to build a new building which will make it more attractive to recruit talent," he said. "And we will make that investment."

Moderator Susan Metzger of the Kansas Water Office addressed the need across the workforce for year-round availability of guest workers and migrant labor as she asked panelist Allie Devine her ideas for making guest labor more accessible and available. Devine is a partner in the law firm Devine and Donley, LLC.

"It's a tough time to men-

tion the word immigration, but I'm going to dive in anyway," Devine said. "When the governor first came into office, he did a seminar at KU talking about the vision of economics for the state. The number one thing he said is we have to deal with our declining population, because if you want laborers, you have to have people." She described how Kansas has a declining population and statistics show that all of the state's growth is tied to immigration and young people coming to Kansas for jobs.

Devine looked out how the talk of immigration quickly breaks down quickly into legal and illegal immigration. The limited number of available visas is a persistent problem when it comes to seasonal workers, because the low number of visas issued are generally gone within the first few hours of becoming available. "Then when you talk about the undocumented, we are really talking about people who probably came to the U.S. on a visa and overstayed it." She said the Pugh Institute recently stated that Kansas has approximately 67,000 undocumented people. "What we know is that of that 67,000, many are working and many are family members to people who are documented and are working. So how do we crack the system that is helpful to maintain visa availability into the U.S., get it to the sectors that need it and then have a program that does not harm those already here?" she said. She spoke of a proposal by the Cato Institute, a conservative public policy research organization, that was very similar to one drafted and worked in Kansas in response to efforts to turn the state into an Arizona-style economy where people are deported or made so uncomfortable they choose to leave. It proposes a state-based visa program where states would



Susan Metzger, left, moderated the panel discussion about workforce needs at the Kansas Ag Summit. Panelists included Joann Knight, Dodge City/Ford County Development Corporation; Jackie Klippenstein, Dairy Farmers of America; John Niemann, Cargill; Greg Ruehle, Servi-Tech; Brian Ballard, Cal-Maine Foods; Don Landoll, Landoll Corporation and Allie Devine, Devine and Donley, LLC.

be given a number of visas where they could prioritize what segments of the economy would get them. "I've been having conversations with many people in D.C. who see it as a potential opening," Devine said. "It would not give citizen status to undocumented. It would give them a lawful presence." The Federal government would maintain its role of doing background checks, ensuring the people are meeting their immunization requirements and getting them into the system. "It would take Congress to act, and in this environment, it's a tough job to get that done," she conceded.

Brian Ballard, general manager of Cal-Maine Foods, Inc. in Chase, helped develop a public-private employment program with the Hutchinson Correctional Facility, beginning in 2004 with four inmates. "It was a

need-based program," he described. "We need employees that we couldn't find locally to do unskilled labor jobs." The program has grown over the past twelve years to where they now have a contract with the state to employ 15 inmates. "Those guys come to us every morning and we put them to work in various aspects of our operation, the feed mill, processing plant, every aspect of our operation."

Ballard says they have seen great success with the program, which has also proved a benefit to the state. The inmates pay room and board to the state out of their paychecks as well as any court fees, restitution, and child support. They also have a mandatory 10% savings that they can't touch until released from prison. "It's allowed a good situation for the state, obviously a good situation for Cal-Maine

because we've been able to stabilize the workforce in a small community, and it's good for the inmates themselves. A lot of these guys with their histories can't go back to where they came from before, so they're looking for a fresh start. We've had some that have gotten out of the prison system and have stayed on and some of them are in management positions today. A very talented group of people and a very talented workforce."

Adequate housing is another hurdle that has to be overcome for a community to be attractive to potential workers. Joann Knight, executive director of the Dodge City/Ford County Development Corporation described her organization's efforts to address the problem. "Ford County has a history of 2 1/2 to 4% unemployment

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Abilene revisits old cowtown days as part of the Chisholm Trail 150th celebration



Longhorn cattle once again made their way through Abilene as the Saddle Up, Let's Ride parade kicked off the Abilene Chisholm Trail 150th Celebration. Also in the parade were the Fort Riley Commanding General's Mounted Color Guard, the Abilene Municipal Band, Native American Dance demonstrators and Kansas Cowboy Mounted Shooters.

Photo by Alexandra Storm

could say these requirements were written in a purposefully vague manner: since the rules must apply to all food animal operations, a one-size-fits-all approach is not easily attained. One key is how often conditions, animals, and management can change on an animal operation. A cow-calf operation may have used the same type of cattle and management strategies for the past 20 or 30 years, while in a large dairy, disease processes, nutrition, and management may change on a monthly or weekly basis.

Veterinary feed directive (VFD) considerations

While one could focus on the uncertainties present in the VCPR definition, some aspects are certain:

VFD forms can't be obtained from a veterinarian that has never seen your animals or operation.

If a veterinarian is familiar with you, your animals, and your management, a farm visit to personally examine the set of animals to be treated may not always be necessary before

obtaining a VFD.

Your veterinarian is entitled to determine what "medically appropriate and timely visits" means in the context of their practice and your operation. They have no obligation to provide you a VFD if they feel a VCPR does not exist - their signature on the line indicates that relationship is present.

A valid VCPR does not mean the veterinarian can authorize uses of feed grade medications that are not on the label ("extra label" use).

As mentioned earlier, some producers will navigate these changes in feed-grade antibiotic use much better than others. Those producers are the ones with an existing solid relationship with one veterinarian or one veterinary clinic. For them, all the dust-up about VCPRs is largely irrelevant because that relationship is ingrained in their operation.

The bottom line

Producers who have not had veterinarians visit their operation, or have not used veterinarians at all, will have a harder time adjusting to the VCPR requirement when it comes to obtaining VFD forms. It is not too late to start greasing those skids, though. Schedule a visit with a veterinarian to go over your current uses of feed grade medications and determine whether you will need to obtain VFDs for them. Then discuss what constitutes a VCPR in terms of your operation and the veterinary practice. Coordinating this information with your consulting nutritionist is a good idea. In this manner, you'll be ready for the changes that will occur on January 1, 2017.

Conscientious livestock producers will look at the VCPR requirement not as an opportunity to seek loopholes in the system, rather they will consider it an opportunity for animal health and profitability improvement through veterinary involvement in their animal's well-being.

Certified Angus Beef LLC to receive Don L. Good Impact Award

Certified Angus Beef LLC (CAB), the world's largest and most successful branded beef program, has been selected to receive the 2016 Don L. Good Impact Award. With nearly four decades of leadership in the beef business, the CAB® brand in fiscal 2015 reported record sales for the ninth consecutive year, marketing 896 million pounds of product.

The award, presented by the Livestock and Meat Industry Council Inc. (LMIC), is named in honor of Good, who is a former head of the Kansas State University Department of Animal Sci-

ences and Industry (ASI), and recognizes positive impact on the livestock and meat industry or agriculture. CAB, along with the many K-State alumni who have contributed to the brand's success, will be recognized during the K-State ASI Family and Friends Reunion, set for Oct. 7 at the Stanley Stout Center in Manhattan.

"The Livestock and Meat Industry Council is very proud to honor CAB with this year's Don L. Good Impact award," says Craig Good, LMIC president. "I think that it would be difficult to think of an entity that

has had a more profound impact on the beef and food industry than CAB and many people with K-State ties have had a big part in its success."

In the mid-1970s the future was dim for consumers who had grown up eating high-quality beef. Economic pressures, combined with the lowering of USDA beef quality grade standards in 1976 resulted in too much variability in the Choice grade. The CAB® brand, based on high-quality carcass characteristics, was developed to reduce variability and reassure customers they were getting the best

beef available. In 1978, the first CAB® packer was licensed and the first pound of product was sold.

CAB's original mission statement remains in place today: Increase demand for registered Angus cattle through a specification-based, branded-beef program to identify consistent, high quality beef with superior taste.

The program has grown to include more than 17,500 licensed partners in 52 countries. The brand's global partners generate an estimated \$6.9 billion in consumer sales annually.

"The Department of Ani-

mal Sciences and Industry is excited to join with LMIC in recognizing Certified Angus Beef LLC for its contributions to the beef industry," says Ken Odde, K-State ASI department head.

The ASI department is excited to "welcome home" alumni and friends. We invite all Kansas Angus breeders to bring the entire family for an evening of fun activities, including a Junior Wildcat Barnyard area designed for the youngest members of the ASI family.

A highlight of this year's reunion will be a performance by the "best band in the land," the reigning

Sudler Trophy Award winner. Following the Pride of Wildcat Land band's performance, attendees will participate in the Wildcat Walk. The band will form an aisle for attendees to enter the Stout Center for the award ceremony led by Willie and the kids.

More information about the event and registration is available online at www.asi.k-state.edu/familyandfriends. Pre-registration deadline is Sept. 23. Note: walk-in registration may be limited, so be sure to register today.

Workforce needs addressed at Kansas Ag Summit

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rates, so we know we will have to recruit employees in," she pointed out. In 2009 they started a program called Dodge City Has Jobs. They have an active website for job postings and attend about 20 career fairs each year to recruit workers. When the problem of no housing arose they began using rural housing incentive districts, which use the next 15 years of property taxes collected by a new development to pay off the land and help with infrastructure costs. They also started a neighborhood revitalization program and abandoned housing program. "You've just really got to be creative," she said, adding that good support from the city and county have also been key.

Don Landoll, founder, owner and president of Landoll Corporation described

ways his company strives to make employees feel valuable and so encourage company loyalty and long-term employment. One way is their monthly Birthday Bunch, where everyone with a birthday that month gathers to hear company history and future plans.

The use of internships is something Servi-Tech, Inc. has relied on over the company's history, according to Greg Ruehle, president and CEO, who said they generally have 25-30 interns per year scattered across the states. He said they've also seen a change in the company's educational expectations. "That's probably been one of the biggest adjustments that we've made, is that we do obviously need people with an agronomy degree, but we've been able to complement that with students coming out of techni-

cal college and community colleges, been in for two years and that's their plan," he said. "Reaching into those sources of students not only for internships but for future employment has been one of the areas that really have begun to develop."

Niemann added that with FFA growing at a rate of 30%, with 630,000 students nationwide, businesses need to be recruiting them collectively. "We're talking about trying to get 1, 2 or 3% more people in our industry and they have a 30% growth rate. There is an interest and fascination with food and agriculture and all that we do, but we've got to cultivate it sooner and we've got to be much more intentional at the grassroots level."

Among the many changes seen in the expectations of young people entering the workforce, a state-of-the-art

workplace ranks high. Jackie Klippenstein, vice president of Industry and Legislative Affairs for Dairy Farmers of America, described their efforts as they relocate their headquarters to Kansas. "We're looking to set the culture so that when you come into the building you get the sense that we are a global company serving farmers in the U.S. and owned by farmers of the U.S. and that we are exporting quality product all around the world. We have the best and brightest working for us and the best and brightest these days demand something different than they did 20 years ago." The new facility

will have a fitness center and places where younger staff and more seasoned staff can have more contact and the different departments can be less siloed. New technology, flexible hours and new ways of thinking will be implemented, according to Klippenstein.

While recruiting and retaining a quality workforce is a challenge across the board, it's one that must be met. KDA estimates that the agriculture, food and food processing sector produces \$46.2 billion and supports 126,652 jobs in Kansas.



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Grace Wilcox, Olsburg, is this week's recipe contest winner

Winner Grace Wilcox, Olsburg
SHEPHERD'S PIE

The sheep project members in my 4-H club have been trying to promote lamb meat this year as one of our project goals. This particular recipe has been in my family for around fifteen years, adapted from different recipes over the years. You can substitute ground beef for ground lamb, but it is a good recipe for using lamb--and it seems fitting for "Shepherd's" Pie to be made with lamb.

Ingredients:

2 lbs. ground lamb
½ C. onion, finely chopped
1 can (10 ½ oz.) cream of mushroom soup
1 C. milk
1 C. frozen green beans
1 C. frozen corn
1 T. dried basil
1 t. salt
½ t. pepper
4 C. mashed potatoes
½ T. butter

Directions:

Preheat oven to 350 degrees. Brown ground lamb and onion until fully cooked. Add mushroom soup and milk to frying pan, and cook on medium heat for 1 minute. Add green beans and corn; cook on low heat 1 minute. Add basil, salt and pepper; let simmer 5 minutes. Pour combined mixture into a large casserole dish. Spread mashed potatoes on top until mixture is fully covered. Dab thin slices of butter on top of potatoes. Cook in oven for 25 minutes, or until the mashed potatoes are golden brown. Serves 4-6.

Rose Edwards, Stillwater,
Oklahoma:

CHILI CHEESE DOG TOTS
28-ounce package tater tots
15-ounce can chili
5 hot dogs, cut lengthwise in half then sliced crosswise
1 ½ cups shredded Cheddar cheese
1 green onion, sliced

Heat oven to 425 degrees. Bake tater tots as directed on package. About 5 minutes before tater tots are done cook chili and hot dogs in saucepan on medium heat until heated through, stirring frequently. Spread tater tots onto oven-proof platter, top with chili mixture and cheese. Bake 5 minutes or until cheese is melted. Sprinkle with onions.

Millie Conger, Tecumseh:
LOADED BAKED POTATO CASSEROLE

6 cups mashed potatoes
4 ounces cream cheese
¾ teaspoon black pepper
3 ½ cups shredded rotisserie chicken
2 cups shredded Cheddar cheese
12-ounce package fresh broccoli florets
¾ cup chopped green onion
6 slices bacon, cooked until crisp & crumbled

Preheat oven to 375 degrees. Spray a 9-by-13-inch baking dish with spray. In large bowl, stir potatoes, cream cheese and pepper. Stir in remaining ingredients, all but half of the shredded cheese. Spread in baking dish and sprinkle with remaining cheese. Bake for 30-40 minutes.

CONFETTI RICE AND BEAN SALAD

Serves: 6 | Serving size: ¾ cup

INGREDIENTS

- 1 cup instant brown rice, uncooked
- 1 cup tomatoes, chopped (about 1 medium)
- 2 medium carrots (finely chopped or grated)
- 2 tablespoons onion (finely chopped)
- 1 cup frozen corn
- 1 can (15 ounces) black beans (drained and rinsed)
- ¼ cup lime juice
- ¼ cup oil (canola, vegetable, or olive)
- ½ teaspoon salt
- ½ teaspoon ground black pepper

INSTRUCTIONS

1. Cook rice according to package directions and let cool.
2. Wash and cut up the tomatoes, carrots, and onion while rice is cooling. Put the vegetables into a large bowl.
3. Add frozen corn to the bowl.
4. Drain and rinse black beans and add to the bowl.
5. Add cooled rice to the bowl.
6. Whisk together the lime juice, oil, salt, and pepper in a small bowl. Pour this over rice and vegetable mixture, and stir gently to combine.
7. Refrigerate at least 30 minutes before serving to let flavors mingle.

TIPS

- Add color and flavor with 1 teaspoon cumin, 1 tablespoon dried parsley, or 3 tablespoons fresh parsley (minced).
- Substitute 1 can of corn for frozen corn.

Nutrition Facts:

Calories 260; Total fat 11 g, Sat. fat 1g; Cholesterol 0mg; Sodium 310mg; Total Carb 36g; Dietary fiber 7g; Sugars 3g; Protein 7 g; Vitamin A 70%; Vitamin C 20%; Calcium 4%; Iron 10%.

Source: Spend Smart. Eat Smart. Iowa State University Extension

Take the challenge: Plan ahead to keep food safe with Prepare Kansas starting September 1

Ice storms, tornadoes, and flooding – Kansas has them all and more. Do you really know how long food will stay safe in the refrigerator if your power is out? Or what foods and supplies you should have on hand in case of emergencies?

Starting Sept. 1, Prepare Kansas 2016 will provide tips on keeping food safe in emergency situations. This year's program will be conducted through the K-State Research and Extension Facebook page. No registration is required, so Kansans and anyone interested in planning ahead for emergencies can follow on Facebook at any time during September, pick up handy information and interact with K-State Extension specialists and agents.

Throughout 2015, a total of 126 tornadoes occurred across the state, which made it the fourth highest year for tornados since 1950, according to the Kansas Department of Emergency Management.

"Kansas has its share of disasters, whether it's a homeowner's basement flooding or a fire affecting a whole block in a community. We're committed to working with people across the state to help them be prepared for anything that comes their way," said Kansas State University associate professor Elizabeth Kiss. "We can't always keep disasters from happening, but we know that being as prepared as possible, whether it's making an emergency kit or having copies of your financial and personal information in a separate, safe place, aids in the recovery from disasters."

Kiss, a K-State Research and Extension financial management specialist produces the Prepare Kansas blog, which provides tips and resources on a range of emergency preparedness topics, including this year's focus on food safety during September.

"It is very important to keep food safety in mind before, during and after emergencies such as power outages and floods, to help to reduce the likelihood of people getting sick from eating contaminated food. That would make a challenging situation even worse," said Londa Nwadike, consumer food safety specialist with K-State Research and Extension. "Some of the food safety practices that are important in emergency situations are good practices to help prevent people from getting sick at any time."

Kiss and Nwadike, along with several K-State colleagues, are delegates to the Extension Disaster Education Network, a network of extension professionals across the country working to mitigate the effects of disasters through education.

More information on Prepare Kansas will be available in September at <https://www.facebook.com/KStateRE> and any time at <https://blogs.k-state.edu/preparekansas/>

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Top Ten Food Safety Myths

By Barbara L. Ames,
Wildcat District Extension
Family and Consumer
Sciences Agent

September is National
Food Safety Month!

About one in six Americans – 48 million people – will get a foodborne illness this year, according to Centers for Disease Control and Prevention estimates. The Partnership for Food Safety Education, at <http://www.fightbac.org/> wants to help keep you and your loved ones from becoming part of that statistic! Read on to learn of some common food safety myths you might not be aware of.

MYTH #1: Cross contamination doesn't happen in the refrigerator.

FACT: Some bacteria can survive and grow in cool, moist environments. In fact, *Listeria Monocytogenes* grows at temperatures as low as 35.6 degrees F. Clean your refrigerator regularly with hot water and soap.

MYTH #2: I don't need to clean the refrigerator produce bin because I only put fruit and vegetables in there.

FACT: Naturally occurring bacteria in fresh fruits and vegetables can cause cross-contamination in your refrigerator. A recent study found that the refrigerator produce compartment was the #1 "germiest" area in consumers' kitchens.

MYTH #3: I don't need to rinse this melon – the part I eat is on the inside!

FACT: A knife or peeler passing through the rind can carry pathogens from the outside into the flesh of the melon. Play it safe and rinse your melon.

MYTH #4: I eat a vegetarian diet, so I don't have to worry about food poisoning.

FACT: Fruits and vegetables may carry a risk of foodborne illness. Always rinse produce under running tap water.

MYTH #5: Leftovers are safe to eat until they smell bad.

FACT: Smell is not an indication of whether food is safe to eat! Freeze or toss refrigerated leftovers within 3-4 days.

MYTH #6: Freezing food kills harmful bacteria that

can cause food poisoning.

FACT: Bacteria can survive freezing temperatures. Cooking food to the proper internal temperature is the best way to kill harmful bacteria.

MYTH #7: Putting chicken in a colander and rinsing it with water will remove bacteria like Salmonella.

FACT: Bacteria in raw meat and poultry can only be killed when cooked to a safe minimum internal temperature, which for poultry is 165°F. Save yourself the messiness of rinsing raw poultry. It is not a safety step and can cause cross-contamination.

MYTH #8: Only kids eat raw cookie dough and cake batter.

FACT: Just a lick can make you sick! No one of any age should eat raw dough.

MYTH #9: Once a hamburger turns brown in the middle, it is cooked to a safe internal temperature.

FACT: The ONLY way to know that food has been cooked to a safe temperature is to use a food thermometer, 160°F for ground beef. Visual clues are NOT a good indicator of doneness.

MYTH #10: If I microwave food, the microwaves kill the bacteria, so it's safe.

FACT: It's the heat generated by microwaves that kills bacteria in foods and it must be completely heated to a safe internal temperature. Be sure to follow package instructions and rotate and stir foods during the cooking process if instructions call for it.

For more information about this topic or other topics, contact the Wildcat Extension District offices at: Crawford County, 620-724-8233; Labette County, 620-784-5337; Montgomery County, 620-331-2690; Pittsburg Office, Expanded Food and Nutrition Education (EFNEP), 620-232-1930. Wildcat District Extension is on the Web at <http://www.wildcatdistrict.k su.edu>. Or, like our Facebook page at [facebook.com/wildcat.extension.district](https://www.facebook.com/wildcat.extension.district).



We're getting closer and closer to fall, which means that I'm thinking about baked goodies! But, it also means that we're busy in this nice cooler weather. This calls for quick meals and even quicker desserts (when we have them!) and that's where these little wonders come in.

These brownies are your simple, boxed brownie, with a homemade peanut butter layer on top of them, and then a quick chocolate ganache (also known as a glaze or sauce) over the top of all of that. Yummy! And guess what?! These are the kind of brownies that'll make you famous whenever you take them somewhere. So you might want to mentally prepare yourself for the onslaught of recipe requests to follow!

Buckeye Brownies

1st layer:
1 box fudge brownie mix
1/2 cup semi-sweet chocolate chips
2nd layer:
2 cups powdered sugar
1/2 cup butter (1 stick), softened
1 cup creamy peanut butter
3rd layer:
1/2 cup butter (1 stick), softened
1 cup semi-sweet chocolate chips
Start by mixing together



your brownie mix according to the instructions and add in your chocolate chips.

Bake according to the box and then pull out and let cool thoroughly. (See? I told you it was going to be simple!)

Then in a large mixing bowl, combine the powdered sugar, softened butter, and peanut butter. Mix together well. Using a knife, gently spread this peanut-buttery-goodness evenly over the brownies.

In a small saucepan, melt together the butter and chocolate chips. Stir until smooth! Pour over the

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brownies, spread evenly, and allow to sit for an hour or so in the fridge to let the chocolate topping set up. (I sometimes will even put mine in the freezer for about 20 minutes, just to cool them off a little quicker.)

Serve in small pieces (as it's rich!) or store in the fridge. Prepare yourself for the fame and adoration that comes with making these and enjoy!

Ashleigh Hett is a freelance writer and blogger for her website, *Prairie Gal Cookin'* (www.prairiegalcookin.com). She shares everything from



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Kansas Rural Center annual conference to feature nationally recognized authors & presenters

The Kansas Rural Center will host its annual Farm and Food Conference November 18 and 19, 2016, in Manhattan, featuring three renowned keynote presenters. Embodying the theme "Transforming Our Farms, Our Food and Our Future:

Building the Road as We Go," keynote speakers will emphasize the importance of pollinators, diversified farming systems, and community organizing and local social networks.

Kicking off day one, Dr. Jonathon Lundgren will

speak on the importance of pollinators and diversified farming to the health of farming overall and to the food system. Lundgren is an award-winning entomologist and agroecologist who worked for USDA ARS for 11 years before starting his current project, Blue Dasher Farm, a research and demonstration farm.

Jennifer Hopwood, Senior Pollinator Conservation Specialist with the Xerces Society for Invertebrate Conservation, will speak on the role and importance of pollinators in a healthy, sustainable agricultural system and how ecologically based farming systems help support pollinator populations.

The second day will welcome Dr. Liz Carlisle, author of *Lentil Underground*, a non-fiction book recounting her research and experience working with Montana's sustainable, organic and local food movement and the social networks that organized to make it all work. Dr. Carlisle was a lecturer at the Berkeley Food

Institute's Diversified Farming Systems Project before heading to Stanford University as a lecturer in the Thinking Matters Program in the School of Earth, Energy and Environmental Science this fall. She will discuss how successful alternative food networks are built on broad-based moral economies and social support networks.

In addition to inspiring keynote presenters, the two-day program will highlight conservation and diversified farming systems with an emphasis on pollinators and soil health on day one, and local food systems and how collaboration and networking are critical to developing a successful local and regional food system on day two.

With over 25 breakout sessions across the two days, the conference promises to have something for a broad spectrum of attendees, ranging from very practical how-to's for farmers and ranch-

ers, to community organizing ideas for community leaders, to policy analysis and issue presentations.

Breakout sessions will feature equally extraordinary presenters and expertise. Experts including farmers, community and organizational leaders, and state agencies from all over the Midwest will join panels and presenters. New this year, North Central Region - Sustainable Agriculture Research & Education (NCR SARE) is co-sponsoring an entire track of SARE funded farmer research project sessions titled "The Farmer Forum."

Each day will include a lunch from locally sourced ingredients and will offer conference attendees time for networking and visiting exhibitor booths in order to connect with and learn more about the great people and exciting things happening in farming, food production, and the environment, in Kansas and beyond.

KRC welcomes sponsor-

ships at several different levels and benefits to sponsorship. Cost to attend the conference is \$65 per day or \$120 for both days which includes access to all presenters, lunch and snacks both days, and a Friday evening social hour. Scholarships may be available.

To learn more about becoming a sponsor, registering, or scholarships at this year's conference visit <http://kansasruralcenter.org/conference-2016/> or call Natalie Fullerton at 866-579-5469 Extension 701 or email info@kansasruralcenter.org.

The mission of KRC, a non-profit research, education and advocacy organization founded in 1979, is to promote the long-term health of the land and its people through research, education and advocacy that advance an economically viable, ecologically sound, and socially just food and farming system. For more information, visit www.kansasruralcenter.org.



Showing the grand champion meat goat at the Ottawa County Fair was Josi Schrader, pictured with judge Bill Disberger.

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Historic 1,260+/- acre Kansas plantation hits auction block on October 5th

Yaggy Plantation, a 1,260+/- acre property only minutes from Hutchinson will be auctioned to the public on October 5, 2016 in five tracts and combinations. The property offers a unique mixture of irrigated farmland, a mile plus of Arkansas River frontage, a historic homestead with two residences, dryland acreage and hunting cover. It has been in the same family for 130 years. For more information, contact John Wildin

of Hall and Hall at 620-662-0411 or visit <http://hallhall.com/ranches-for-sale/properties/yaggy-plantation>.

"Back in the early 1900s Yaggy Plantation was a very large and successful apple farm with roughly 50,000 apple trees," said Wildin. "Also, according to historical documents, it had more than 1,000,000 catalpa trees that were harvested for fence posts and railroad ties. The plentiful crop diversity is due to the water under this land being plentiful and shallow."

There are two large historic homes situated on a tree-lined drive with expansive lawns. Both two-story houses have front and back porches, numerous bedrooms, brick fireplaces and

hardwood floors, all in a beautiful setting amongst mature trees. The north home (c. 1905) was faithfully refurbished in 2005. The south home (c. 1892) was ordered as a prefabricated house from Sears & Roebuck and delivered to the site by train.

Yaggy Plantation is all contiguous land, without any public roads through the property. It is roughly two miles wide and one mile deep. Well over a mile of the south boundary lies along the north bank of the Arkansas River, the sixth longest river in the U.S. Hardwood and softwood trees are scattered throughout the land intermittently in rows and large stands along the river. A huge

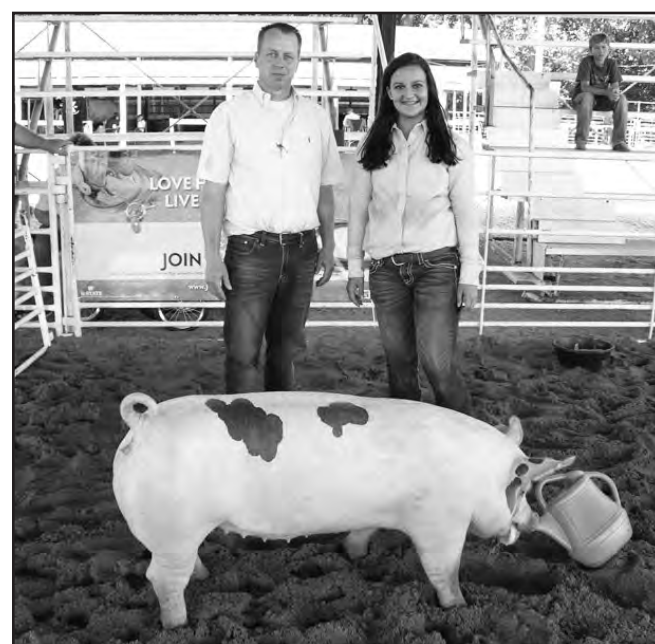
grove of catalpa trees provides the most secure sanctuary for the many varied wildlife species found here, including mature whitetail bucks. In between the various tree groves and rows are fields of native grass that have been until recently enrolled in the federal Conservation Reserve Program. These are perfect fawning areas bounded by tree lines. The towering cottonwood trees along the river provide massive canopies for nearly the entire length of the riverbank.

"Keep in mind all of this land is contiguous, and yet is not impacted by public access anywhere through the property," Wildin added. "This truly is the premier wildlife sanctuary in the Midwest with whitetail deer, large flocks of wild turkey, ring-necked pheasants and the bobwhite quail."

The north end of this land is the historically productive cropland, of which nearly 350 acres are pivot irrigated to produce prolific yields of corn, soybeans, milo and wheat. The sellers have permits for an additional 226+/- acres of pivot irrigation.

"The phrase 'unique land offering' is probably the most over-used description in the real estate world," said Scott Shuman of Hall and Hall Auctions. "But the 1,260+/- acre Yaggy Plantation defines exactly what that phrase is meant to describe. Just three miles from Hutchinson and only fifty-five miles from the Wichita airport, this is one of the most unique land offerings to come along in a long time."

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Receiving the handshake from judge Bill Disberger as the champion senior swine showman at the Ottawa County Fair was Courtney Walker.

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Starter fertilizers for wheat can pay if used correctly

A little fertilizer at or near planting time can help jump start wheat toward a successful crop, but producers have to be careful to apply it correctly, said Dorivar Ruiz Diaz, associate professor of agronomy at Kansas State University.

In general, wheat is considered a highly responsive crop to starter fertilizers, particularly phosphorus and nitrogen, he said. When applying a starter fertilizer for wheat, application methods and rates are much more flexible with phosphorus than nitrogen.

"An application of phosphorus as starter fertilizer can be an effective method for part or even all the phosphorus needs of wheat. Wheat plants typically show a significant increase in fall tillers and better root development with the use of

starter fertilizer – both phosphorus and nitrogen. Winterkill can also be reduced with the use of starter fertilizers, particularly in low phosphorus testing soils," said Ruiz Diaz, who is a nutrient management specialist with K-State Research and Extension.

Most sources of phosphorus, except thiosulfate, can be safely applied at recommended rates and with any application method, including in the seed row.

"Phosphorus fertilizer application for wheat can be done through the drill with the seed," Ruiz Diaz said. "This would either be in addition to, or instead of, any pre-plant phosphorus applications depending on soil test and recommended application rate."

The use of dry fertilizer sources with air seeders can

be a popular and practical option; however, other phosphorus sources, including liquid, are agronomically equivalent and decisions should be based on cost and adaptability for each operation, he added.

A little nitrogen in a starter fertilizer can also benefit wheat, but growers should be careful about how fertilizers containing nitrogen and potassium are applied as starters for wheat, he said.

When applying fertilizer with the seed, nitrogen and potassium rates should be limited to avoid potential toxicity to the seedling. When placing starter fertilizer in direct contact with wheat seed, Ruiz Diaz said producers should use the following guidelines:

- In 15-inch spaced rows, apply no more than 16

pounds of nitrogen-plus-potash for medium to fine textured soils, or 11 pounds for sandy or dry soils.

- In 10-inch rows, use a maximum of 24 pounds of nitrogen-plus-potash for medium to fine soils and 17 pounds for sandy or dry soils.

- For 6- to 8-inch rows, no more than 30 pounds of nitrogen-plus-potash should be applied to medium to fine soils and 21 pounds for sandy or dry soils.

- In general, no urea-based nitrogen should be applied with the seed in any row spacing or soil type.

Planting equipment can make a bit of difference in these guidelines, he added.

"Air seeders that place the starter fertilizer and seed in a band an inch or two wide, rather than a narrow seed slot, provide some

margin of safety because the concentration of the fertilizer and seed is lower in these diffuse bands," Ruiz Diaz said. "In this scenario, adding a little extra nitrogen fertilizer to the starter is less likely to injure the seed – but it is still a risk."

What about blending dry 18-46-0 (DAP or Diammonium phosphate) or 11-52-0 (MAP or Monoammonium phosphate) directly with the seed in the hopper? Will the nitrogen in these products hurt the seed? The nitrogen in these fertilizer products is in the ammonium-nitrogen form, not the urea-nitrogen form, and is much less likely to injure the wheat seed, even though it is in direct seed contact, Ruiz Diaz said. As for rates, the guidelines mentioned previously should be used. If DAP or MAP is mixed with the seed,

the mixture can safely be left in the seed hopper overnight without injuring the seed or gumming up the works.

Although the response of wheat to DAP and MAP dry or 10-34-0 liquid starter fertilizer products is primarily from the P, the small amount of N that is present in these products may also be important in some cases, he said.

"If no preplant nitrogen was applied, and the soil has little or no carryover nitrogen from the previous crop, then the nitrogen from these fertilizer products could benefit the wheat, in addition to the phosphorus," the K-State nutrient management specialist said.



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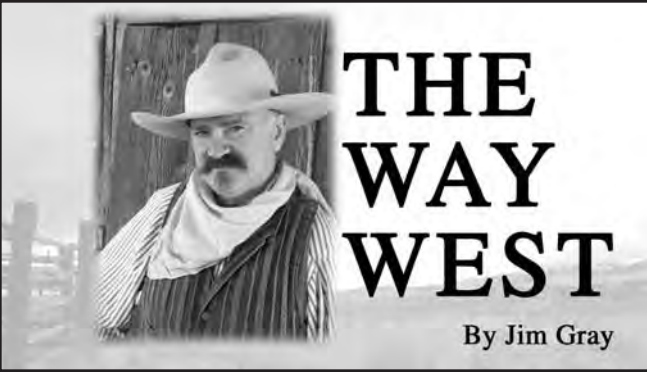
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Uneasy Silence

By 1895 “The West” and its many adventures loomed somewhere in the nearby past. If you had been there your name could well be spoken in reverence by those who missed it. So it was on a cold night in Kansas City in the Senate Saloon, where an old-timer by the name of Charlie Bassett held court. The story of

that exchange was related in the September 11, 1895, *Washington Post* under the byline “A Western Man Killer.” The story was told in a way that suggests the unnamed writer was relating a story that had been told to him by the editor of *Kansas City Times*, Jack Nuckols. Nuckols was an especially well-liked newspa-

per man having come from Springfield, Illinois, to Kansas City, Missouri, in 1889. Jack was thirty years old, and would have been old enough to have experienced the legendary Wild West had he ventured west from Springfield at a younger age. Alas, he was resigned to live vicariously through the recollections of the men who had been there.

The article in the *Post* began, “It has often been noted by those favored men, who, in traveling about the west made the acquaintance of famous killers, that the killer was always quietly and soberly reserved about the homicides he had committed and never cared to talk about them.” Jack Nuckols had gained the friendship of just such a man. Charles E. Bassett, better known as Charlie, land-

ed at Dodge City in 1872 when the town was just a wide spot in the road. There was nothing especially extraordinary about the town except that buffalo hunters were flocking to the “town” of tents and shacks to sell thousands of hides taken in the great buffalo hunt that was taking place at that time on the plains.

Dodge City had no official police force during the first year of its existence. No one knows for certain, but some historians think former Newton City Marshal Billy Brooks served as a “Special Policeman” for Dodge City merchants beginning in the fall of 1872. However, his presence did little to stem the tide of violence that plagued the young frontier town. The citizens finally formed a “Vigilance Committee” in February, 1873. However, in some instances the vigilantes contributed to the growing violence. Seventeen men were killed by June of 1873.

Finally, Kansas Governor Thomas Osborn stepped in to authorize a special election in which Charlie Bassett was elected Ford County Sheriff. Those early years were shrouded in mystery with very little documentation as to what transpired. Considering the power of

the vigilance committee one would surmise that Bassett faced a monumental challenge in breaking their nefarious hold on Dodge City. If only someone would have recorded those intrepid encounters!

The known facts of his law career began in 1876 and continued into 1880. During that time he served in the various capacities of Ford County Sheriff, Under-sheriff, and Marshal of Dodge City. He captured horse thieves, broke up gun-fights, held carousing cowboys at bay, and chased murderers over the prairie. In only one instance did he fire a weapon and in no instance did anyone lose his life. Bassett was an extremely effective lawman.

Bassett eventually left Dodge to operate a hotel in Kansas City. But his reputation carried almost a legendary weight amongst frontiersmen. When the Dodge City leaders threatened to shut down Luke Short’s saloon, Short turned to Charlie Bassett. Bassett’s “Peace Commission” of well-known gunmen converged on Dodge City to “convince” city fathers to allow Luke Short to remain in business in Dodge City without firing a shot.

And so it was that Kansas

City Times Editor, Jack Nuckols, turned the conversation to Dodge City that cold winter night around the stove in the Senate Saloon. “By the way, Charlie, you killed several men at Dodge City, didn’t you?” The effect was more searing than hot lead from the muzzle of a Colt .45.

“A look of pain and uneasiness came across Bassett’s face like a cloud.” The room fell silent as Bassett stared directly at Nuckols with an empty, unnerving glare. “For full half a minute Bassett looked at the questioner without saying a word; then, as if a thought had come to him that he knew was safe to act on, he helped himself to a drink of whisky all alone.”

Breaking the uneasy silence. Bassett answered, “Well if I did, it was right.” Afterward, the onlookers remarked, “You can bet it bothered Bassett when it drove him to drinking whisky by himself. I’ll bet 2 to 1 that’s the first drink Bassett’s taken alone in 20 years.” Four months after the story was published forty-eight-year-old Charlie Bassett died at Hot Springs, Arkansas, having led a life that few men would ever know on *The Way West*.

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

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Before visions of weight loss plans begin dancing in your head, let us introduce Cora, an Asian elephant.

She arrived with her companion Shannon, a 34-year-old African elephant, at the Topeka Zoo in August.

According to the zoo's press release, Cora and Shannon, along with their owners, have traveled across the eastern half of the United States presenting an elephant educational program, called Elephant Encounters, for more than three decades. After one of the owners passed away, a

decision was made to retire Cora and Shannon with the hope that they could remain together.

According to zoo director Brendan Wiley, the Topeka Zoo was one of three zoos in the nation that house both Asian and African elephants together. "We are delighted to have these two elephants join our herd and live out their remaining years in comfort and peace," Wiley said.

As with all incoming animals to the zoo, the elephants will be in quarantine for a period of time determined by the zoo's veterinarian. To give the elephants privacy during the transition, the elephant exhibit may be closed to the public during parts of the day.

Brendan said, "The zoo is extremely excited for the arrival of the new elephants

and looks forward to introducing the new additions to the community."

The zoo's press release describes the animals' personalities as well. Shannon is disciplined and loves to be the center of attention. As with many adolescents, when she doesn't get her way, she will sometimes sulk, dragging her trunk on the ground or sticking out her tongue. Her favorite toy is her blue barrel which she carries with her wherever she goes. She enjoys treats, her favorite of which is watermelon (just like our mules, Minnie and Pearl).

When Shannon was 18 months old, she was introduced to Cora. Cora, who is several years older, became an instant "mother" to Shannon. The two are inseparable. Cora is very passive. She will wait patiently for her turn. She loves at-

Grass & Grain, September 13, 2016

Page 9

tention and is very protective of Shannon. Cora is a very vocal elephant and can often be heard rumbling and trumpeting with delight.

Cora and Shannon join Tembo, a 46-year-old African elephant, and Sunda, a 56-year-old Asian elephant.

For updates, visit the

zoo's website and Facebook pages, and plan to visit them in person!

Deb Goodrich is the co-host of *Around Kansas TV Show*, the Wednesday feature of *AGam*. *Around Kansas* is syndicated throughout the state and is online at *Around-kansas.com*, *Youtube* and *Facebook*.



Corey Nichols drove the reserve champion market hog at the Ottawa County Fair. Bill Disberger judged the event.

Kansas companies participate in trade mission to Ethiopia

The Kansas Department of Agriculture led a trade mission to Ethiopia August 19-27, 2016. Companies participating in the trade mission included Nu Life Market LLC, Scott City and No-Bull Enterprises, St. Francis.

Nu Life Market focuses on the milling and processing of gluten-free and non-GMO sorghum grains and roasted sunflower kernels. No-Bull Enterprises is the manufacturer of the Calli-crate Bander, which is sold worldwide and is recognized as the safest and most effective and humane castration tool on the market for cattle, sheep, goats, alpacas and other animals. Also accompanying the group was Nat Bascom with Kansas State University's Sorghum and Millet Innovation Lab. The Sorghum and Millet Innovation Lab is part of Feed the Future, the U.S. Government's global hunger and food security initiative.

During the mission, the team gained market insights, made industry contacts and solidified business strategies, ultimately increasing business partnerships within the Ethiopian national and private framework.

Trade mission stops included:

- U.S. Embassy
- Hilina Foods and Bless Laboratory
- Ethiopian Meat and Dairy Industry Development Institute
- Holland Dairy processing facility
- KSL General Trading beef fattening yard
- Ethiopian Institute of Agricultural Research Melkassa Research Station
- Sorghum farms
- EthioGreen manufacturing facility

"Through the relationships initiated and developed during this trade mission I am confident that we at No-Bull Enterprises will now be able to forge a path toward participating profitably in the Ethiopian market while also contributing to Ethiopia's efforts to develop their beef industry," said Kim Benson of No-Bull

Enterprises. "We would not have actively focused on this market without participating in this trade mission."

Ethiopia is Africa's second most populous country and one of the fastest growing economies in the world. Ethiopia boasts a growing middle class and a surging demand for agriculture products. "It was a privilege for me to be a member of the trade mission to Ethiopia," said Earl Roemer of Nu Life Market. "The business relationships built during this mission will definitely lay the foundation for increased trade with Ethiopia."

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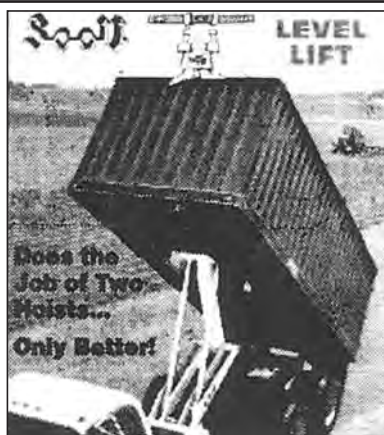
including farmers, ranchers, food establishments and agribusinesses and is dedicated to providing support and assistance to make Kansas businesses successful. "Since 2005, Kansas has exported over \$73 million in agriculture commodities to Ethiopia, primarily cereal grains. We were honored to be the first state department of agriculture to visit Ethiopia," said Suzanne Ryan-Numrich, international trade director at KDA.

The trade mission was funded in part through a cooperative agreement with the U.S. Small Business Administration using a State Trade and Export Promotion (STEP) grant. If you are interested in participating

in upcoming trade missions, please contact Ryan-Numrich at suzanne.numrich@ks.gov or call 785-564-6704.

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Acclaimed hydrologist to speak Oct. 3 at Kansas State University about global water supply

A hydrologist who monitors the world's water supply using NASA satellites says even with recent heightened awareness, global water security is at

greater risk than is generally recognized.

Jay Famiglietti, a senior scientist at NASA's Jet Propulsion Laboratory in Pasadena, California, and a professor at the University of California, Irvine, will give the talk "Water, Food and Energy: Interwoven challenges to sustainable resource management" as part of the Henry C. Gardiner Global Food Systems Lecture Series at 7 p.m. Monday, Oct. 3, in Kansas State University's McCain Auditorium. Admission is free and the public is welcome.

Famiglietti said that 20 of the world's 37 major aquifers are being depleted, including the Ogallala Aquifer in western Kansas.

"The common issue in over half of the world's major aquifers is that we use more water than is available on an annual renewable basis, primarily for food production, and we make up the shortfall from groundwater," he said. "Another common feature is poor management of groundwater. Consequently, many aquifers, such as those in India, the Middle East and China are being

depleted at a very rapid pace."

Famiglietti is the third speaker in the Gardiner Global Food Systems Lecture Series, which aims to provide science-based education about the global food system. The series allows university students, faculty, staff and Kansas citizens to interact with U.S. and international food industry leaders. Kansas State University and Gardiner Angus Ranch, Ashland, initiated the lecture series in 2015.

"I really focus on the surprising disappearance of groundwater, not just in the American Midwest and in California, but around the world," Famiglietti said. "I firmly believe that global water security is at greater risk than is generally recognized. I also try to encourage faculty and graduate students to get engaged locally, and to work hard to communicate their key results."

Using satellites to monitor water on Earth, Famiglietti and his team develop computer models to track how freshwater availability is changing all over the world.

"We are learning much

about how patterns of water storage and freshwater availability are changing," he said. "We hope to develop a very deep understanding of how large-scale water management practices like groundwater pumping and reservoir storage are impacting climate, whether they are sustainable, and what the environmental consequences might be."

Famiglietti said that sustaining agriculture and food production in the future will require much cooperation.

"In my opinion, we need to take a diverse portfolio approach that includes changes on both the supply side and the demand side," he said. "Recognizing that the era of water abundance is over is a critical first step, so conservation and efficiency are essential and can result in huge water savings."

"From there, changes in water pricing, appropriate crop choices and joint management of surface and groundwater, just to name a few, should all be up for discussion."

It's also not a challenge solely for farmers and the food industry.

"I think that the biggest obstacle to conserving water is a psychological one, at least in the United States," Famiglietti said. "We need to dispel the myth of limitless water and come to terms with the fact that vast swaths of our country are water limited. That requires a far higher level of water awareness than we are currently used to. Any technology that can help us better monitor and manage our water budgets, from the home to the farm to the entire state, should be considered. We all need to become water managers."

"I always challenge my students to focus on these three basics: How much water do we have; how much do we need; and how are both of these changing over time? The answers to these questions are just as important for homeowners as they are for water managers or for big users like the food industry."

Famiglietti's lecture will be shown live online at k-state.edu/globalfood/lecture-series. Kansas State University also will be Tweeting live from the event, using the hashtag, #GlobalFoodSystems.



August Hulse showed the reserve champion meat goat at the Ottawa County Fair. He is shown with judge Bill Disberger.

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A Kansas State University agricultural engineer who has put mobile drip irrigation on a fast track for conserving water in western Kansas has received a national award for the innovation.

Isaya Kisekka was named a New Innovator by the Foundation for Food and Agriculture Research. The award, valued at \$300,000, is intended to support faculty members in the first three years of their careers.

"The unique thing about funding from FFAR is that it is not tied to a particular project, but rather will complement our already ongoing research and outreach on limited irrigation," Kisekka said.

That means that the research team, based in Garden City, can continue important work in advanced irrigation scheduling; mobile drip irrigation; and devel-

oping a decision support tool for limited irrigation.

"Management strategies and technologies developed out of these projects will help in sustaining irrigated agriculture with limited water," Kisekka said. "Through limited irrigation, we will be able to produce grain and forages for the cattle feeding and dairy industries that produce large economic impact for western Kansas and the entire state in general."

Kisekka added that the team hopes to enhance crop water use efficiency through mobile drip irrigation, research that is being conducted by doctoral student Tobias Oker.

Mobile drip irrigation capitalizes on small, polyurethane tubing with emitters — or small holes — spaced about six inches apart that carry water from a traditional center pivot sprinkler along the ground. Water is spread gently at

ground level, as opposed to being sprayed above the crop or within the crop canopy.

Kisekka is working with private companies to develop and evaluate the technology.

Earlier this year, he reported that mobile drip irrigation reduces soil water evaporation, which may ultimately help farmers increase water productivity, or economic yield per unit of crop water use.

"Mobile drip irrigation has the potential to be applied on most of the row crops we grow in this region," Kisekka said. "One of the advantages of mobile drip irrigation is that it is retro-fitted into an existing system, so the initial cost is not prohibitive. The cost is relatively small compared to the cost of a primary center pivot system. Many producers already have a (center pivot) system."

The \$300,000 award from

FFAR will be matched by Kansas State University in the form of existing personnel and resources, which means the actual boost to Kisekka's research program is \$600,000.

"Our goal is to find solutions that will help producers maximize profits while minimizing risks with limited irrigation," Kisekka said. "Our research is conducted at a range of scales, from plot to field to regional, and includes field experiments and computer simulation."

Kisekka's research team includes two senior research technicians, one post-doctoral research associate, and one doctoral student. Other Kansas State University irrigation engineers and faculty in other disciplines and institutions are also involved.

"We are working with a complex and dynamic water limited cropping system," he said. "We hope that our research is responsive to the producer needs and that it will have positive impact."

The research may be especially relevant for the Ogallala Aquifer, one of the world's largest, which underlies an area of approximately 174,000 square miles in western Kansas and portions of eight states. The Ogallala Aquifer underlies about 27 percent of the irrigated land in the United States.

Specific to Kansas agriculture, the Ogallala Aquifer underlies eight counties that, in 2014, sold more than \$6.3 billion in crops and livestock, or more than one-third of total agricultural revenue for the entire state.

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Wheat industry welcomes end to Japan's temporary suspension of white wheat imports

U.S. Wheat Associates (USW) and the National Association of Wheat Growers (NAWG) are pleased that Japan's Ministry of Agriculture, Forestry and Fisheries (MAFF) has resumed tenders for new purchases of U.S. Western White (WW) wheat, a blend of soft white and club wheat. On Sept. 1, 2016, MAFF announced it had purchased 58,000 metric tons, or more than 2.13 million bushels, of WW for delivery in October.

MAFF had temporarily suspended new WW purchases following the an-

nouncement on July 29, 2016, by USDA's Animal and Plant Health Inspection Service (APHIS) that a small number of wheat plants containing an unapproved, genetically engineered (GE) event to resist the herbicide glyphosate were found in a fallow field in eastern Washington State.

USW and NAWG believe that this unexpected situation caused only a minor disruption in trade because every stakeholder approached it in a reasonable way. APHIS promptly identified the regulated wheat

event, validated a detection method developed by Monsanto and made that test available to officials in Korea and Japan. Effective communications between government officials, including USDA's Foreign Agricultural Service, the grain trade companies and customers kept the process moving in a positive way.

As a result, APHIS, MAFF and the Korean government have now tested thousands of samples of U.S. wheat and found no evidence of any GE material in commercial supplies, which

reaffirms the conclusion that this was a limited, isolated situation.

The productive relationships wheat farmers and their representatives at NAWG, USW and state wheat organizations have built with customers at home and around the world also played an important part in resolving this incident.

On behalf of those wheat farmers, USW and NAWG express their appreciation to APHIS for its help.

USW is the industry's market development organi-

zation working in more than 100 countries. Its mission is to "develop, maintain, and expand international markets to enhance the profitability of U.S. wheat producers and their customers." USW activities are made possible through producer checkoff dollars managed by 19 state wheat commissions and cost-share funding provided by USDA's Foreign Agricultural Service (FAS).

NAWG is a federation of 22 state wheat grower associations that works to represent the needs and interests of wheat producers before Congress and federal agencies. Based in Washington, D.C., NAWG is grower-governed and grower-funded, and works in areas as diverse as federal farm policy, trade, environmental regulation, agricultural research and sustainability.

Breed all the cows at one time

By Katie Alexander

If your opinion of artificial insemination (AI) for the beef cattle herd is "been there, done that," you may want to give it another look.

New protocols and synchronization methods have eased the pressure.

"There's no question that fixed-time AI has gotten easier," says Cliff Lamb, University of Florida animal scientist. That's important for those who tried other AI programs in the past but did not find success, and also noteworthy for those who have never tried AI.

Fixed-time protocols allow the average producer who doesn't know how to AI to synchronize them and schedule a technician to come out and breed the cows.

Pregnancy rates vary by herd and environment, not perfect by any means, but getting better.

"We've found that fixed-time insemination has worked so well in heifers and cows with the new protocols that we've gotten to where we can get more cattle pregnant on the first day of your breeding season," says Willie Altenburg, Select Sires beef development advisor.

That's because it allows for a better conception rate – up to 60% – on the first day of breeding season, he adds.

AI reduces the uncertainty of unproven bulls and serves as a risk management tool, too.

"The advantage of using proven genetics in the heifers, the ability to synchronize and get proven calving-ease genetics – that is where we see the most use of AI today," Altenburg says. "Then you can use that over into the cow herd, of course."

Improvements in growth traits, carcass merit and replacement heifers are only the start, he says.

"It's a stepping stone of just how much the genetics are being utilized more and more to incorporate things like carcass traits to harvest cattle with outstanding carcass merit to enhance the

eating quality so that our producers and consumers enjoy that benefit," Altenburg says.

The large variety of genetics available with AI shouldn't intimidate producers, he says. One strategy is to narrow choices by selecting for specific EPDs (expected progeny differences).

"The use of EPDs and the database from breed organizations has extended the use of highly proven sires," Altenburg says. "DNA-marker-assisted selection is the next step."

AI-sired calves often carry many advantages, too, such as the genetics of bulls with the total package.

"It allows you to improve the reproductive efficiency of your cow herd," says Lorna Marshall, Select Sires vice president of beef genetic programs. "We shorten your calving interval, we get more of those cows to calve in the first 21 days."

"The other advantage is that it lets you select genetics that are going to fit your marketing environment as well as your feed environment," she says.

All agree that companies



The champion pen of three market lambs at the Ottawa County Fair was shown by Hunter, Kya and Halle Johnson.



The grand champion open class market hog at the Ottawa County Fair was shown by Boston Foust.

AUCTION

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The champion halter mare at the Ottawa County Fair was exhibited by Clayton Tunison.



Judge Bill Disberger selected Charlie Klein's entry as the reserve champion dairy goat at the Ottawa County Fair.

Agricultural robotics and drones: a complex \$10 billion market by as early as 2022

Robots and drones have already started to quietly transform many aspects of agriculture. Indeed, the IDTechEx Research report on Agricultural Robots and Drones 2016-2026: Technologies, Markets, and Players finds that this is already a \$3 billion market in 2016, growing to \$10 billion by as early as 2022.

This report analyses how robotic market and technology developments will change the business of agriculture, enabling ultra-precision farming and helping address the key global challenges. It develops a detailed roadmap of how robotic technology will enter into different aspects of agriculture, how it will change the way farming is done and transform its value chain, how it becomes the future of agrochemicals business, and how it will modify the way we design agricultural machinery.

The report provides segmented ten-year market forecasts for at least 14 categories of agricultural robots and drones. It includes detailed technology roadmaps showing how different robotic/drone technologies in different agricultural sectors will evolve. It contains 20 interview-based company profiles together with 120

other company profiles or backgrounds.

Dairy farms: Thousands of robotic milking parlours have already been installed worldwide, creating a \$1.9 billion industry that is projected to grow to \$8.5 billion by 2026. Mobile robots are also already penetrating dairy farms, helping automate tasks such as feed pushing or manure cleaning.

Autonomous tractors: Tractor guidance and autosteering technologies are also going mainstream thanks to improvements and cost reductions in RTK GPS technology. Indeed, more than 300 thousand tractors equipped with autosteering or tractor guidance will be sold in 2016, rising to more than 660 thousand units per year by 2026. Unmanned autonomous tractors have also been technologically demonstrated with large-scale market introduction largely delayed not by technical issues but by regulation, high sensor costs and the lack of farmers' trust. This will all change by 2022 and sales of unmanned or master-slave (e.g. follow me) tractors will reach \$200 million by 2026.

Agricultural drones: Unmanned remote-controlled helicopters have been spraying rice fields in Japan

since early 1990s. Autonomous drones have also been providing detailed aerial maps of farms, enabling farmers to take data-driven site-specific action. This development will soon enter its boom years as regulatory barriers lower and the precision farming ecosystems finally come together. In time, the drone hardware will become commoditized and value will shift largely to data acquisition and analytics providers. Agriculture will be a major market for drones, reaching \$485 million in 2026.

Agricultural robots and drone encompass many different technologies, each serving a different sub-market, and each enjoying a different degree of technology and market readiness.

Robotic weeding implements: Vision-enabled robotic implements have been in commercial use for some years in organic farming. These implements follow the crop rows, identify the weeds, and aid with mechanical hoeing. The next generation of these advanced robotic implements is also in its early phase of commercial deployment. It will be using large troves of data to train its algorithms using deep learning techniques. This will become a \$380 million market by 2026.

Unmanned autonomous robotic weeders and data

scouts: Vision-enabled and intelligence robots are increasingly reaching navigational autonomy. These small, slow and light robots will be autonomously roaming the farms, analysing plants and taking specific actions such as eliminating a weed. Already, numerous companies and groups have developed and deployed a variety of weeding robots. Whilst most products are in prototype or semi-commercial trial phase, the first notable sales have also taken place aimed at small multi-crop vegetable farmers. This will become \$300 million market by 2026.

Fresh fruit harvesting: Despite non-fresh fruit harvesting being largely mechanized, fresh fruit picking has remained mostly out of the reach of machines or robots. Progress here has been hampered by the stringent technical requirements together with the lack of CAD models and the fragmented nature of the market putting off investment. This is however beginning to change, albeit slowly. A limited number of fresh strawberry harvesters are already being commercially trialled whilst fresh apple and citrus harvesters have also reached the level of late stage prototyping. Market adoption will start from 2021 onwards, reaching \$230 million by 2026.

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TRUCK, CAMPER, ATV, EQUIPMENT

2008 Dodge Ram 3500 Laramie Quad Cab 4x4 Truck 6.7 Cummins Turbo Diesel 6 sp. Auto 3.73 rear-end Duels Power Everything Trailer Tow Pkg. B&W drop hitch Only 54K (Very Nice!!); 2003 Cedar Creek by Forest River 33 ft. 5th Wheel Camper Super Cedar Pkg. fully furnished USED VERY LITTLE Just Like New!; 2015 Kawasaki SE Special Edition 610XC 4x4 Mule 30 hrs.(New!); John Deere X485 Lawn Tractor hydro, w/hydraulics, 54 in. deck, tractor tires, 435 hrs.(Nice!); Travalong 6x16 stock trailer w/center gate bumper pull & new floor; 7 x 12 single axle trailer w/fold down tailgate; 8 x 18 flat-bed trailer bumper pull triple axle w/grated flooring; 5 ft. Rhino SM61 rotary tiller; Frontier RB2084 7 ft. straight blade (New!); IH 521 hvy. duty Super Chief H-Series 3 bottom plow; IH 4-row cultivator; John Deere ER014 6 row cultivator; 8 ft. spring tooth chisel; Continental 44 post hole auger w/10" bit; IH 10 ft. pull-type disc w/cylinder; John Deere #6-7 two row planter; JD horse drawn cultivator; 3-fuel barrels & stands; 150 gallon truck fuel tank w/pump; Swisher 10.5 hp. 28 ton 2 wheel Log Splitter; Farmhand 7 hp. 60 gallon 135 psi 220V upright air-compressor(Like New!); Craftsman 15 hp. electric start 7500 watt Generator(never used!); Duracraft 16 sp. Industrial Drill Press; Lincoln AC 225 stick welder; acetylene/oxygen torch set; fifth wheel to gooseneck trailer hitch;10 drawer tool chest; Ryobi chop-saw; welding table; bench vise & grinder; table-saw; 20 ton pneumatic jack; 2 ¼ ton floor jack; Mr. Heater 125,00 btu heater; truck unloader; ¾ drive socket set (like new); socket sets, wrenches; 100's of power, hand tools of all kinds; welding rod & supplies; log chains & boomers; bar clamps; numerous chain-saws & parts, supplies; new bolts, hardware; new oil, hydraulic fluid, etc.; salvage items & metal.

If Kenny had one he had two in the shop of everything!
HOT TUB, ELECTRIC WHEELCHAIR, WINCHESTER FIREARMS SAFE

Sierra 2000 Hot Tub w/Thermal Guardian Deluxe cover; Cobalt X16 Power Wheel Chair (New!); Winchester 9L60 Twelve Gun Safe.

COLLECTIBLES, HOUSEHOLD, MISC.

DeLaval #14 Cream Separator; AT Ferrell Clipper Grain Cleaner w/screens; 100 lb Blacksmith Anvil; Whitman Americus double Cider Press; Sears Lady Kenmore 2 sp. wringer washer; cast-iron #75 cook stove; USA #2 cast-iron school bell; Wrought Iron Range kettle; 2-vintage metal gliders; Schwinn vintage girls bike; steel traps; milk cans; wash-tubs; wheel pulley; wooden pulley's; hand saws; wooden advertising boxes; coffee mills; coin candy/gumball machines; Master Crafters Swinging boy/girl and girl clocks; Gilbert mantel clock; Electric ship clock; 2-United Horse clocks; vintage clocks; Howard Miller, Sunbeam, etc.; enamel ware; various old jars; McCormick Jupiter 60 RR Train Set decanters; vintage toys; Coke hanging lamp; Lladro figurines; Cranberry pitcher; Currier Ives blue; ball pitcher sets; jadeite, pink, green, pottery, stoneware, glassware; Pyrex, Fire King; refridge dishes; cookie cutters; linens; doilies; quilts; cast iron skillet; Singer Treadle sewing machines; vintage Waterfall china bedroom cabinet; matching Mid-Century Paul McCobb chest drawers; china, hutch; cedar chest; oak round table; oak chest drawers; end tables; primitive tables; Le Creuset pieces; 100's pots, pans Revere Ware, Farberware; small appliances; kitchen décor; canning jars, etc.; nut crackers; "The Holland Grill" BBQ grill; King Kooker outdoor cooker; small BBQ grills; camping cooking pans; propane tanks; camping supplies; fishing rods, reels; Kenmore refrigerator; Kenmore & Signature chest freezers; ATV sprayer; aluminum folding ramps; new trailer house rims, tires; combination stock panels; steel posts; large upright base antenna; tractor canopy; lawn trailer; front-tine tiller; large pot-belly wood stove; large pile seasoned firewood; garden & hand tools; box lot items; dimensional lumber; numerous items too many to mention!

Auction Note: This Auction Is Very Large Auction Two Auction Rings All Day! A Very Wide Range of Items For Everybody To Buy! Large Building In Case of Inclement Weather! The Condition of items is Outstanding! Concessions: Crimson Blue BBQ Loader Tractor Day of Auction Only!

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PERSONAL PROPERTY



SUNDAY, SEPTEMBER 18 — 11:00 AM
2323 North Jackson — JUNCTION CITY, KS

FURNITURE & APPLIANCES: Couch, 2-Recliners, 2-Benches, 2-Chairs, Coffee Table, Butcher Block Work Table, 2-Storage Cabinets, Patio Table w/2-Chairs, Card Table w/4-Chairs, Mattress & Box Springs, 2-Office Chairs, Stacor 36" x 58" Adjustable Drafting Table, Kirby Vacuum w/Attachments, Freezer.
GUNS, MUZZLOADERS (Percussions), BOAT, MOTOR & ACCESSORIES: British Lee-Enfield MK iii .303 Cal. w/57 Rounds, Empty Brass & Lee Loader NSN, Winchester Model 12 16 Gauge Shotgun w/ 3-Lyman Choke Tubes SN1142003, Western Field 16 Gauge Shotgun w/Modified Choke SN50134, .45 Cal Kit Built Numrich Arms Kentucky Style w/ Cast Balls, .50 Cal Thompson Center SNK6199, .26 Cal H.L. King Professional Gun Makers NSN, .45 Cal CVA Kit Built Philadelphia Derringer SN#035879, .58 Cal Springfield Zouave Rifled Musket (Civil War Reproduction) SN16306 w/Caps & Mini Balls, 16 Gauge Shells, NRA Magazines, 1996 Grumman Deck Boat w/1996 Evinrude 115 HP Outboard, Profile 2000 Shoreland'r Trailer Garmin FishFinder 240 Depthfinder, 24v Minn Kota Trolling Motor Lorange LCX-113c HD Fish-Finding Sonar & Mapping GPS & Additional 14 Gal Fuel Tank, Minn Kota Turbo 50 12V Trolling Motor, 2001 12 1/2" Sea Eagle Inflatable Boat, 2005 Johnson (Bombardier) 4-Stroke 15 HP Outboard Motor, Two 14 x 17 3 Blade Aluminum Props, Push Pole (For Maneuvering Watercraft In Shallow Water).

TOOLS & MISCELLANEOUS: Bolens Model 8655 22" Self Propelled Front Drive Mulching Mower w/5HP Briggs & Stratton Quantum Power Gasoline Engine, Tool Cabinet, Werner Model 10-20-02 Adjustable Extension Ladder Jack Set, Tools, Metal Saw Horses, MotoMaster Eliminator 3000W Digital Power Inverter, Ex-cell Model 3035WB 3000PSI Industrial Power Washer w/10HP Briggs & Stratton Gas Engine, 25 Gal. Wheeled Lawn & Garden Sprayer, Feeder/Seeder Spreader, Allied Model 45535 3 1/2 T Heavy Duty Hydraulic Floor Jack, New Air Ai-200w Portable Ice Maker, Red Devil Model A Clay Pigeon/Blue Rock Thrower, 9' X 7' 4 Panel Garage Door w/TruGuard 1/2 HP Opener, Ford 38 Gal Diesel Fuel Tank (Removed From A New 2010 Ford F-450 Super Duty Pickup), 30 Gal Plastic Fuel/Chemical Barrel, Cam Recorder w/2-Tri-pods, 2-Vagabond Wasaga 604/9 (1-Male & 1-Female) 6 Speed Touring Bicycles, Wilson Sam Snead Blue Ridge Right-Handed Golf Clubs w/Dunlop Golf Bag, Golden Laddie Size 9 Golf Shoes, Full Grain Upholstery Leather Remnants, AND MANY MANY MORE ITEMS TO NUMEROUS TO LIST.

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FARM & HARVESTING EQUIPMENT AUCTION

WEDNESDAY, SEPTEMBER 21, 2016

TIME: 10:30 AM CT • 9:30 AM MT

Location: In Horace, KS, 4 blocks west on Iowa St. and 1 block north (Horace is west of Tribune, Ks.)

TRACTOR & PAYLOADER
2007 JD 8330 tractor, FWA, 3pt., pto, 8,500 hrs., Fiat Allis 645B payloader, Ser. # 11Y05732

TRUCKS
2002 Peterbilt 379 semi-truck, 550 Cat motor, 15 spd. trans.
2003 Peterbilt 379 semi-truck, Cat motor, 15 spd. trans.
1998 Peterbilt 379 semi-truck, Cat Motor, 18 spd. trans.
1986 Peterbilt semi-truck, 3406 Cat motor, 15 spd. trans.
1994 Peterbilt tandem truck, Series 60 Detroit motor, w/aluminum 21' Farris box
1981 Peterbilt 359 service truck, N14 Cummins motor, duel axle with aluminum Farris service box & 600-gallon fuel tanks
1973 Peterbilt cab over semi-truck
1986 Kenworth cab over semi-truck
2005 Kenworth semi-truck, Cat C-15 motor, 13 spd. trans.

TRAILERS

2015 Timpette 40 ft. grain trailer w/ roll-over tarp
2007 Timpette 42 ft. grain trailer, air ride w/roll-over tarp
1999 Timpette 42 ft. grain trailer w/ roll-over tarp
2001 Wilson Pace 42 ft. grain trailer w/roll-over tarp
2004 Farris pup grain trailer w/roll-over tarp

2005 States 28 ft. grain trailer w/roll over-tarp
Mauer header trailer
M&D header trailer
2004 Farris combine trailer 28 ft. extendable
Trailtech 53 ft. quad axle, grain cart trailer
Trailtech double header trailer w/hydraulic fold
Bedford double header trailer w/hydraulic fold

FARM EQUIPMENT

2001 Roto Mix Roto Spreader
532-16 manure spreader
1999 JD 1770 conservation planter, 12-row
1988 JD 1900 air seed cart w/ JD 1820 hoe drill, 60 ft.
Bush Hog 30 ft. disk
Westfield 8'x 41' auger

CAMPERS & ATV

2011 Polaris Ranger HD, 5036 mi.
2008 Cyclone 39 ft. camper trailer, toy hauler, (2) slide-outs
2010 Sandpiper 39 ft. camper trailer, (4) slide-outs

HARVESTING

2013 Brent 1196 grain cart, duels
2009 J&M 1194 grain cart, duels
JD 1293 corn head, needs work
JD 893 corn head, needs work
JD 36 ft. draper head, needs work
Sunray sunflower header
Dolly converter

GRUBB & SONS, INC., OWNER

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What plants sense and “say” may impact the future of weed control

Scientists with the Weed Science Society of America (WSSA) say plants can sense and communicate in ways that may surprise you, and those findings are opening the door for innovative new approaches to weed control.

“Historically we’ve thought about plants as relatively simple organisms, but in fact they are almost constantly changing as they sense and respond to what’s going on in their surroundings,” says WSSA Fellow Clarence Swanton, Ph.D., a researcher with the University of Guelph.

Swanton has made a number of important discoveries about plants and what

they seem to sense. Most recently, he found that corn seeds could detect whether weeds are growing above ground. They make that determination based on light reflected by weeds that penetrates the soil surface. If the seeds sense weeds are lurking, cellular changes are triggered to delay germination – resulting in unrecoverable yield losses.

Swanton believes that with further research, scientists may find a way to protect seeds from the stresses they experience when they detect weeds growing above them. “With the right treatment, we might be able to trigger a beneficial reaction

and actually boost the development and emergence of new seedlings,” he says.

Swanton previously discovered that light reflected by weeds also helps emerged corn and soybean plants sense when competitors are growing close by. The crops respond with chemical changes that stunt both their root system and their above-ground growth.

“It is critical that farmers control weeds early so crops are free of competitors during the earliest stages of their growth,” he says. “Delays can be costly. Weeds aren’t just competing for water and nutrients. They actually are triggering

genetic-level changes that impact crop yields.”

“Plant to Plant” Communication

Jim Westwood, a researcher at Virginia Tech, agrees with Swanton’s assessment that there is lot more is going on with plants than we may realize. Westwood is leading a research team that has studied the relationship between the parasitic weed dodder, also known as “vampire plant,” and two plant “victims.” One is the researcher’s favorite model plant, Arabidopsis, while the other is dodder’s more common prey, tomato.

Researchers knew from

previous reports that dodder senses chemical signals given off by potential host plants and uses that information to grow towards them. But once dodder attaches itself to its host, the real fun begins. Messenger RNAs are exchanged between the plants and serve as a unique language that allows dodder and its host to chat freely and potentially share large volumes of genetic information at the molecular level.

What are they saying? Westwood says further research is under way to find out. He suspects, though, that dodder may have dastardly intent. The weed is likely telling host plants precisely how to lower their defenses so they can be more readily attacked, as well as how to produce more of the nutrients dodder needs to survive and thrive.

If Westwood is right, finding a way to disrupt this messenger RNA dialogue might protect the host plant and cause parasitic plants to wither away.

“Parasitic plants can have a devastating impact on crops and are extremely hard to control,” he says. “Dodder seeds, for example, can survive in the soil for decades. We hope our research will lead to innovative new strategies that will one day give growers – and their crops – the upper hand.”

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'American Meat Fest' promotes U.S. pork, beef and lamb in the Philippines

Introducing and promoting cuts of U.S. pork, beef and lamb to a diverse set of consumers, USMEF partnered with a supermarket chain in the Philippines to host the inaugural “American Meat Fest.” The four-day event, organized with Iloilo Supermart, featured cooking demonstrations and tastings of U.S. pork, beef and lamb. Funding was provided by the USDA Market Access Program, the Pork Checkoff and the Beef Checkoff Program.

Iloilo Supermart, the largest supermarket chain in the Western Visayas region of the Philippines, operates seven locations. It is an important retailer for promoting U.S. meat, because it attracts shoppers with varied tastes and demands, explained Sabrina Yin, USMEF director in the ASEAN region. The retailer is named for the province of Iloilo and its capital city of the same name. With a population of nearly 1 million, the Iloilo metropolitan area is the economic hub of the Western Visayas region.

“Iloilo Supermart is one of the most patronized es-

tablishments in Iloilo because it not only sells local brands and products, it also offers imported goods such as dried, processed and frozen meats,” said Yin. “They were the first to sell U.S. beef in the Iloilo City retail sector and they have a reputation for providing affordable, high-quality products. They work closely with several importers in Manila, one of which is Alternatives Food Corporation, a carrier of brands like St. Helen, Snake River Farm, Excel and Niman Ranch.”

At the American Meat Fest, USMEF arranged for well-known chef Sidney Uy, owner of Frontgate Diner & Pub, to serve as guest chef at two Supermart events. The first, at Iloilo Atrium, the anchor store for the chain, featured a mobile kitchen set up at the main entrance to the supermarket. A sampling of U.S. beef sausages were given to the consumers and meat displays containing U.S. red meat were placed so consumers could examine the products. Uy presented a cooking demonstration featuring recipes using U.S. beef hanging ten-

der and short plate, U.S. pork loin and Boston butt, and U.S. lamb riblets and breast.

A second, similar event was held at Iloilo Supermart’s newest store, located in Tagbak.

“At both events, Chef Uy was able to catch the attention of the consumers by sharing ways to create

recipes, even for Filipino dishes, using different cuts of U.S. red meats,” said Yin. “Overall, the promotion received positive feedback both from the supermarket management and especially from consumers. Our goal was to create awareness for the different cuts of U.S. meats, and it’s clear we were successful.”

Noble Foundation introduces new Ag Tool application

The Samuel Roberts Noble Foundation has released a new app called Ag Tools that provides agricultural producers with various calculators to help make management decisions. Calculators currently available on the app include body condition score change, breeding season, calving season, frame score, Pearson Square ration balancing and value of gain with additional calculators planned to be added in the future.

“We wanted to create an app that would provide more information for farmers and ranchers, giving them the ability to make better informed management decisions out in the field,” said Bryan Nichols, Noble Foundation livestock consultant. “We chose the calculators that best fit the common situations producers encounter on a daily basis.”

To learn more about the app, visit www.noble.org/ag/tools/.

LAND AUCTION

THURSDAY, OCTOBER 6 — 6:00 PM

Bird City American Legion Hall
BIRD CITY, KS

351.23 ACRES - CHEYENNE COUNTY KANSAS LAND

TRACT 1: 77.99 Acres M/L. Accessible by Hwy 161. This tract consists primarily of Keith Silt Loam soil 100% of this tract in crop production. **Legal:** S36, T01, R038, ACRES 77.99, S2 NW4

TRACT 2: 79 Acres M/L. Accessible by County Road X. Primarily Ulysses Silt Loam soil type. Tract is 100% in crop production. **Legal:** S02, T02, R038W, ACRES 79, E2 SW4

TRACT 3: 80 Acres M/L. Accessible by County Road X. Primarily Ulysses Silt Loam soil type. Tract is 100% in crop production. **Legal:** S02, T02, R038W, ACRES 80, W2 SE4

TRACT 4: 38 Acres M/L. Accessible by County Road X and Hwy 161. Primarily Ulysses Silt Loam soil type. Tract is 100% in crop production. **Legal:** S02, T02, R038W, ACRES 38, SE4 SE4

TRACT 5: 76 Acres M/L. Accessible by County Road Y. Primarily Keith and Ulysses Silt Loam soil types. Tract is 100% in crop production. **Legal:** S02, T02, R038W, ACRES 76, E2 NW4

TRACT 6: Tracts 2, 3, 4, 5 combined. Legal: S02, T02, R038, ACRES 273.24, E2 W2, W2 SE4 & SE4 SE4

LAND LOCATION

Tract 1: From Hwy 36 and Hwy 161 intersection go north approx. 11.5 miles. Property is located on east side of Hwy 161. **Tracts 2-5:** From Hwy 36 and Hwy 161 intersection go north approx. 10 miles. Tract 4 will be on the NW corner of the intersection along Hwy 161.

2015 Cheyenne Co Taxes:

Tract 1 - \$429.70; **Tract 2, 3, 4, 5** \$2023.84

Mineral Rights: Owner’s interest in mineral rights will transfer with the sale of the property.

Possession: Buyer to receive access immediately and full possession at closing.

DIANE E. MALLECK - SELLER

Terms & Possession: 10% down day of the sale, balance due at closing on or before December 5, 2016. Seller to pay 2016 taxes. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession on closing. This property to be sold as-is. All inspections should be made prior to the day of the sale. This is a cash sale and will not be subject to financing, have your financing arrangements made prior to sale day. Midwest Land and Home is acting as a Seller’s Agent and represents the seller interest. All information has come from reliable sources; potential bidders are encouraged to verify all information independently. R.M. Jaqua Abstract Company will act as escrow & closing agent. Galloway, Wiegiers, & Brinegar PA will be representing the seller interest. Announcements made the day of sale will take precedence over all other information.



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Mark Uhlik – Broker/Auctioneer - 785-325-2740
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LAND AUCTION

WEDNESDAY, OCTOBER 5 — 6:00 PM
LaQuinta Inns & Suites, 2400 W Wyatt Earp Blvd
DODGE CITY, KS

303.1 ACRES - FORD COUNTY KANSAS LAND

TRACT 1: 156 Acres M/L. Accessible by 103 Rd and Warrior Rd. Primarily Harney Silt Loam soil types. This soil type is considered prime farmland. This Tract is almost 100% in crop production. **Legal:** S21, T28, R26, ACRES 156, SE4; LESS ROW

TRACT 2: 147.1 ACRES M/L. Just east of Hwy 400 & West of 107 Rd. This tract consists primarily of Lesho-Lesho, saline clay loams, and Las Animas-Lincoln complex soil which are great for crop production. Approximately 80.5 Acres are enrolled in CRP with a 2021 expiration date. 99% of this tract could be in crop production. **Legal:** S31, T26, R25, ACRES 147.1, GLO LT 1; NW4 NE4; S2 NE4; LESS ROW OF RECORD; SW BYPASS.

LAND LOCATION

Tract 1: Take Hwy 283 south out of Dodge City 9 miles. Turn west onto Warrior Rd and go 8 miles. Property is located on the NW corner of the Warrior & 103 Rd intersection. **Tract 2:** Take W Wyatt Earp Blvd/Hwy 50 west out of Dodge City approx. 2.5 miles to Hwy 400. Turn south .75 mile, the NW corner of the property will be on the east side of Hwy 400.

2015 Ford Co Taxes:

Tract 1 - \$1009.98; **Tract 2** \$400.36

Mineral Rights: Owner’s interest in mineral rights will transfer with the sale of the property.

Possession: Buyer to receive access immediately upon signing the purchase contract and receipt of earnest money. Full possession on closing.

HEIRS OF LARRY HANDSHY SR - SELLERS

Agent’s Notes: Tract 1 is an exceptionally good tract with great soils and productivity. This tract is ready for crop production. Tract 2 is close to Dodge City and would make a great place to build a home or business.

Terms & Possession: 10% down day of the sale, balance due at closing on or before December 9, 2016. Seller to pay 2016 taxes. Title insurance, escrow and closing costs to be split equally between buyer and seller. Possession on closing. This property to be sold as-is. All inspections should be made prior to the day of the sale. This is a cash sale and will not be subject to financing, have your financing arrangements made prior to sale day. Midwest Land and Home is acting as a Seller’s Agent and represents the seller interest. All information has come from reliable sources; potential bidders are encouraged to verify all information independently. First American Title Ins Co of Dodge City will act as escrow & closing agent. Announcements made the day of sale will take precedence over all other information.



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AUCTION

SATURDAY, SEPTEMBER 24 — 10:00 AM

Location: 1712 Northridge Road — BEATRICE, NEBRASKA
NICE & CLEAN AUCTION, PLAN NOW TO ATTEND!
HOUSEHOLD GOODS

Sylvania 32" flat screen TV; Haier dehumidifier; queen size 57" tall headboard wood bed w/chest, night stand & box spring/mattress; oak double pedestal 42 x 48" dining table, 16" leaf & 4-roller padded arm chairs; leather "Husker" recliner w/foot stool; 2-Pc over/stuff sofa-love seat set; glass top metal 4-leg 32 x 48" kitchen table w/4-metal chairs; wood black finish computer desk; Sears complete stereo system; metal pedestal stand; padded card table & 4-chairs; plastic wicker cooler; oak entertainment center; glass top coffee table; dining room picture & clocks; desk phone & Other Small items.

POWER TOOLS

Professional 2 hp mod 60020 tile saw; Interchange 2 hp elec air compressor; Tradesman 10" portable table saw; Craftsman 10" table saw; Skil mod 3320 multi-speed drill press; DeWalt: 1 3/4 hp router, 7 1/2" circular saw, 4" planer, 18V XRP cordless drill, 18V hand vacuum, jig saw, 12V right angle drill & biscuit jointer; Roto Zip saw; Milwaukee Saw Zall & hammer drill; 2, 4 1/2" right angle grinders; Porter-Cable 3" sanders & others; DeWalt & B/D routers; PNEUMATIC: Paslode: 2 1/2" finish nailer, 2-1/8 ga pin nailer, 1/4" die grinder, brad stapler, & 1/4" crown stapler, 2, Rockwell Sonic Crafter's; Porter-Cable laminate trimmer & air assist floor nailer; Sure Bonder stapler; Milwaukee framing nailer; Duracraft 12" – 37" Center-To-Center mod 50537 3/4 hp wood lathe; Chicago 8 1/4" compound miter; Bosch elec jig saw & Mighty Midget elec drill; Milwaukee 9/16 hammer drill; rotary tool; Craftsman 1 hp router; & other related items.

RELATED TOOLS

Werner: fiberglass 2, 4 & 6' step ladders, 8' aluminum step ladder, aluminum extension ladders of 12 & 24'; aluminum 9 & 14' walk boards; Stabila 32, 48 & 78" levels; Irvin 72" level; Wagner airless sprayer; dry wall mud kit; cement trowels; 100 & 300' cloth tape measures; ATV jack; 3-50' & 75' air hoses; dry wall square; hole saw set; Craftsman sockets; Dasco Pro chisels; cutters; pry bars; chalk lines; wire strippers; tool bags; Husky spray gun kit; draw pull-jig-it; 6 gal-3 hp Shop Vac; auxiliary lights; tile cutter; cement trowels; solder gun; propane torch; 12-Pc file set; dustless vac sander; 23-Pc Drill-Drive flex-shaft set; & many other small items.

BOAT MOTOR * LAWN * GARDEN

Pflueger Phantom M-2 #1025008 trolling motor (Nice); Toro Power Max 826 OE 11.5 hp electric start snow blower w/Quick Stick snow guide; Toro

COLLECTIBLES

Admiral cabinet radio; oak Child's chair; Lane water Fall cedar chest; 2-gal R W crock; 3-retro bar stools; 100-Boyd's Bears collection; oak library table; oak 3-drawer dresser; Stanley No. 45 plane w/knives; McCoy Clown & Posey cookie jars; "U S Army In Action" prints; Old Style beer bar light; Coors counter light; Avon beer steins; brass fire sprinkler heads; metal day bed w/Harley Davidson décor; Harley Davidson metal stool, lamp, clock, chair & framed items; metal traffic signal; 5-10-25 cent parking meter; NEBRASKA FOOTBALL ITEMS: 1973 Phillips 66 glasses, Wheaties boxes, 1994 Coca Cola 6 pack, 1994 Little Red Wagon, 1962 1st Sellout Shell glasses; 1994 Nat. Champion picture; 15-other N U football wall items; 1984-1993 Grande American Fire Fighter belt buckles & other buckles; NRA Golden Eagle belt buckle; #3 D Earnhardt hat, other NU & racing hats; D Jarrett tire framed picture & 1993 Daytona cardboard Interstate stand-up; Coca Cola metal cooler; iron Mueller fire hydrant; wire bicycle lawn ornament; glass door knobs; N Rockwell plates; High Noon sundial & other small items.

MISCELLANEOUS

Master Force 19-drawer rolling tool cabinet w/100" work tray & roller drawers; Sears 102/50 amp battery charger/starter; 5-drawer 3' assortment cabinet; log chains; step stools; lawn chairs; Sheppard's hooks; staple; nails; screws; propane tank; wheeled car movers; garbage cans; 100-elec steel post; 24" chicken wire; wood & plastic saw horses; Black Jack car creeper; 5 gal buckets; Radio Control: Venom helicopter, Falcon V2 helicopter & air jet; turbo vac; metal tool boxes; Pittsburgh 25-Pc metric wrench set & 14-Pc 1/2" deep well metric sockets; O I T 26-Pc 1/2" socket set; drum sanding set; template letters; 3" drill vise; Wolf Craft dove tail comb jointer; Stanley brace; E-Z magnet; doweling jig; D-M-X wood burner; drill stone sharpening kit; Drill Doctor bit sharpener; Badger air brush; Reliant dove tail; 1.5 amp power supply & Many Other Small items.

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GRASS & GRAIN Auction Sales Scheduled

September 13 — 1400 acres m/l of Prime Henry County, Missouri farm, recreation & investment land held at Clinton, Missouri for MidAmerica Nazarene University, The W. Edgar Moore Trust. Auctioneers: Dave Webb, Webb & Associates Auctions & Appraisals.

September 14 — 160 acres m/l Republic County land held at Munden for Leona Shulda Revocable Trust. Auctioneers: Roger Novak Real Estate.

September 14 — Collectibles, Furniture, Misc./Household items in Manhattan, KS. Auctioneers: Tematt Auctions

September 15 — Commercial building (formerly Washington County Health Dept.), lots & personal property at Washington County for Washington County

Commissioners. Auctioneers: Midwest Land & Home.

September 16 — Forklifts, lawn tractor, disc juke box, foosball table, tools & much more at El Dorado for property of Pat Greer. Auctioneers: Sundgren Auction & Realty.

September 17 — Tractors, truck, machinery, 2 seat buggy, very good, shop equipment, tools & more at Topeka for Brown Estate. Auctioneers: Gannon Real Estate & Auctions.

September 17 — Tractors, fire truck, trailers, flatbed, pull plows & equipment at Richmond for Terry Feuerborn. Auctioneers: Hamilton Auctions.

September 17 — Classic vehicles, garage, collectibles & household at Canton for Arletta (Otis) Koehn. Auctioneers: Van Schmidt Auction.

September 17 — Collector John Deere tractors, collectibles & misc. at Eudora for Keith & Jamie Knabe. Auctioneers: Elston Auctions.

September 17 — Tractors, haying & machinery, bale conveyors, 4-wheeler, misc., collectibles at Blue Springs, Nebraska for Jim & Cindy Hartig. Auctioneers: Jurgens, Henrichs, Hardin.

September 17 — Tools at Belleville for Pat Nielander. Auctioneers: Thummel Real Estate & Auction, LLC.

September 17 — Antique tractors, trucks, pickup trucks, gooseneck stock trailer, hay, shop tools & equip. & household at Minneapolis for Bill & Dorothy Brown Estate. Auctioneers: Bacon Auction Co.

September 17 — Farm equipment & farm related items at Newton for Keith Schirer Estate and Brian & Janis Schirer. Auctioneers: Auction Specialists.

September 17 — Coins at Portis for Richard Allen Estate. Auctioneers: Wolters Auction.

September 17 — Tractors, trucks, trailers, welders, shop equipment & more at Belvue for Diamond "S" Enterprises, Richard Shum. Auctioneers: Cline Realty & Auction, LLC.

September 17 — (Day 1 of 2) tractor w/loader, antique tractors, farm truck, older & newer farm machinery, ATVs, portable utility shed, shop tools & supplies, scrap iron at Abi-

lene for the Lawrence Shetter Trust. Auctioneers: Kretz & Bloom Auction Service.

September 17 — Machinery, Guns, Trailers, Tools, Antiques & Primitives, Houshold, Appliances. Auctioneers: Hiatt Auction.

September 17 — Coin auction in Lawrence, KS for Richard Folks Estate. Auctioneers: D & L Auctions.

September 17 — Glassware & pottery, Collectibles, Furniture in Topeka, KS. Auctioneers: Elmer Whitmore, Wayne Hunter.

September 18 — Furniture, appliances, guns, muz-zloaders, boat, motor & accessories, tools & misc. at Junction City for Alan Deegan & Others. Auctioneers: Brown Real Estate & Auction Service, LLC.

September 18 — Vintage boat, motorcycle, collectibles, misc. at Lawrence for Megan Hiebert & Dana Dole. Auctioneers: Elston Auctions.

September 19 — Furniture, Guns, Tools, Misc items in Manhattan, KS for Hackerott & George Murray Estates. Auctioneers: Gannon Real Estate & Auctions.

September 21 — Tractor, payload, trucks, trailers, farm equipment, campers, ATV, harvesting near Horace, KS for Grubb & Sons, Inc. Auctioneers: Berning Auction.

September 22 — Pickup, Furniture, Jewelry, Household appliances, Tools, & lots of Misc in Manhattan, KS for Wayne Geyer Estate. Auctioneers: Gannon Real Estate & Auctions.

September 24 — Antiques, appliances, furniture, railroad collectibles, shop items at Strong City for property of David & Zetta Ramsey. Auctioneers: Griffin Real Estate & Auction Service, LC.

September 24 — Household

goods, power tools, related tools, boat motor, lawn, garden, collectibles & misc. at Beatrice, Nebraska for John & Jonelle Russell. Auctioneers: Jurgens, Henrichs, Hardin.

September 24 — Household, collectibles, glassware, tools & yard items at Junction City for Bill & Nadine Edie. Auctioneers: Chamberlin Auction Service.

September 24 — Furniture, collectibles, household & garage at Newton for Naomi Unruh Estate, Margaret Unruh Davis seller. Auctioneers: Van Schmidt Auctions.

September 24 — Trucks, camper, ATV, equipment, hot tub, electric wheelchair, Winchester firearms safe, collectibles, household & misc. at Lawrence for Mrs. (Kenneth) Cathy Wyrick. Auctioneers: Elston Auctions.

September 24 — Guns, ammo, brass, clips, reloading, reloading dies, rifles, pistols, revolvers, shotguns & more at Sabetha for Verbie Robinson Estate. Auctioneers: Hartter Auction Service.

September 24 — Lots of collectibles of all kinds at Kanopolis for Wayne Shively Estate. Auctioneers: Oswalt Auction Service.

September 24 — Household, miscellaneous antiques & collectibles & vehicles at Abilene for Genevieve Laws. Auctioneers: Shivers Auction Co.

September 24 — (Day 2 of 2) antique cars, large Coke sign, old Abilene wrought iron jailhouse door, huge variety of antiques, primitives, old machinery, vehicle parts & other collectibles at Abilene for the Lawrence Shetter Trust. Auctioneers: Kretz & Bloom Auction Service.

September 24 — Farm equipment, tools, machinery, cattle equipment, etc., collectibles at the North edge of Soldier for Warren & Elsie Hamilton. Auctioneers: Dan Deters Auction Co.

tion Co.

September 24 — Consignments at Salina with merchandise from Kansas Dept. of Wildlife, Parks & Tourism. Auctioneers: Wilson Realty & Auction Service.

September 24 — Nice older home, vehicles, trailers, shop tools, furniture, guns & ammo, license plate collection. Living estate of Marvin O'Neil. Auctioneers: Chuck Korte Real Estate & Auction Service.

September 24 — Tools, 4-Wheeler, Household, Lawn & Garden for Ralph C. Plegge Estate. Auctioneers: Olmsted Real Estate.

September 27 — Individual collection of guns & coins in Jewell, KS. Auctioneers: Thummel Real Estate & Auction.

October 1 — Household & collectibles at Marysville for Norman Grauer. Auctioneers: Olmsted & Sandstrom.

October 1 — 160 acres m/l Republic County land held at Munden for Gayle H. Moss Estate. Auctioneers: Roger Novak Real Estate.

October 1 — Tools & equipment, farm equipment, irrigation pipe at Salina for The family of the late Jack & El Dooley. Auctioneers: Post Rock Auction.

October 1 — Equipment consignment (tractors, combines, trucks, trailers, implements, livestock & construction equip. & more) at Leonardville. Auctioneers: Gene Francis & Associates.

October 2 — Vehicles, equipment, instruments, firearms, toys, books, postcards, collectibles, crocks, furniture at Clay Center for Eugene Carlson & Estate of Delbert Buss. Auctioneers: Reynolds Auction Service.

October 5 — 303.1 acres m/l Ford County, KS land held at Dodge City for heirs of Larry Handshy Sr. Auctioneers: Midwest Land & Home.

October 6 — 118.5 acres m/l of Chase County Middle Creek Valley land held at Cottonwood Falls for property of William Lamey & the late Donna Starks Lamey. Auctioneers: Griffin Real Estate & Auction Service, LC.

October 6 — 351.23 acres m/l Cheyenne County, KS land held at Bird City for Diane E. Malleck. Auctioneers: Midwest Land & Home.

October 8 — Estate auction at Hanover for Jerry I. Pillard Estate. Auctioneers: Olmsted & Sandstrom.

October 8 — Black Herefords Production Sale, J&N Ranch, Leavenworth, KS.

October 8 — Primitives, old toys, Santa Fe, antiques, Boy Scout, collectibles. Property of the late Leon & JoAnn Mannell. Auctioneers: Wischropp Auctions.

October 9 — Guns at Salina. Auctioneers: Wilson Realty & Auction Service.

October 10 — Tractors, Dozer, Pickup trailers, hay, household, tools. Vassar, KS. Bauck Family Trust. Auctioneers: Wischropp Auctions.

October 12 — Irrigated Riley County land held at Manhattan. Auctioneers: Ruckert Realty & Auction.

October 15 — 197 acres m/l NW Pottawatomie County pasture held at Westmoreland for Still Corporation. Auctioneers: Pearl Real Estate & Appraisal Service.

October 15 — Guns at Salina. Auctioneers: Thummel Real Estate & Auction,

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AUCTION

SATURDAY, SEPTEMBER 24 — 9:00 AM
214 S. Webster — JUNCTION CITY, KANSAS



FURNITURE, HOUSEHOLD, MISC

Kenmore HD 70 Series Washer; Kenmore HD Electric Dryer; Sofa Sleeper; Round End Table; Coffee Table; Wing Back Chairs (2); Swivel Rocker; Dining Room Chairs, (2) Captain, (1) Straight; Child's Glider Rocker; Full Size Mattress & Box Springs; Drop Leaf Table; Telephone Table w/Seat; Floor Lamp; Table Lamps; Stereo Cabinet, TV Stand; Computer Desk; File Cabinet; Step Stool; TV Trays; Book Shelf; Metal Desk; Trunk; Wood Toy Box; Wood Wardrobe; Metal Wardrobe; Several Wood Cabinets; Shoe Rack; Toshiba VHS/VCR; Alarm Clock; B&D Steam Iron; Ironing Board; Hoover Wind Tunnel; Corningware; Correlle Bowls & Coffee Pots; Pyrex Bakeware; Cupcake & Cake Pans; Bundt Pans; Bakeware; Glass Cookware; Pressure Cooker; Air Pot; Tea Kettle; Coffee Warmer; Lots of Glassware; Microwave Trays; Soup Bowls; Gates Ware Rooster Mugs; Salad Shooter; Electric Knife; Hamilton Beach Toaster; Norelco 10-Cup Coffee Maker; Kitchen Aid Mixer; Hand Mixer; Small Crock Pot; Rice Cooker; Aluminum Canister Sets; Jello Molds; Kitchen Utensils; Glass Measuring Cups; Lamb Cake Pan; Cookbooks; Linens; Table Cloths; Placemats; Pillows; Hankies; Comforter, Shams & Window Curtains; Dollies; Nice Afghans; Puzzles; Games; Nintendo 3DS; Toys; Sewing Box; Sewing Basket; Fabric; Camera Tripod; Fireplace Tool Set; Lots of Home Décor; Seasonal Décor; Christmas Decorations; Luggage; Wall Pictures; Yarn; Dollhouse; Barbie Camper & Cinderella Carriage; & More.



ANTIQUES, COLLECTIBLES, GLASSWARE

WWII Jackets & Hats (2); 1947 Wedding Dress; Longaberger Vegetable Basket; Button Basket; Wooden Thread Spools; Ritz Cracker Tin; White King Jar; Goldilocks Cookie Jar; Lefton Christmas Cookie Jar; Hand-painted Cookie Crock; Souvenir 1953 Presidential Inauguration Bottle; Dwight David Eisenhower First Day of Issue Mug; USA Serving Set; Mikasa Vase; Inarco Vase; Blue Rainbow Vase; Fenton Vase; Crystal Goblets; Johann Haviland Bavaria China (Set of 4) w/ Serving Pieces; Blue Sundae Glasses; LIDO-WB George Bowl & Plate; Kaldun & Bogle Pitcher; 24K Gold Cake Platter; Polonia Lead Crystal Bowl; Gold Viking Vase; Frankoma Bowl; E.O Brady Co. Green Bowl; McCoy Tea Pot; Harmony Coffee Jar; Tea Jar; Noritake Salt & Pepper on Tray; Small Vintage Milk Glass Chicken; Pink Depression Glass; "Baby" Mug; Bird Figurines; Brass Candlesticks; Brass Figurines; Bells; Nativity Scene (Italy — hand-painted); Shaving Brush; Old Door Knobs; Old Car Jack; Lots of Knick Knacks & Glass Pieces; & More.

TOOLS, YARD & MISC.

Hand Saws; Wrenches; Chisels; Sockets; Miter Saw; Flaring

This sale has a lot of miscellaneous household items — too many to list.

Statements made day of sale take precedence over printed matter. Cash & Good Checks Only. No Credit or Debit Cards Accepted. Not responsible for accidents. Lunch will be served.

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tools; Soldering Irons; Ax; Hand Plane; Crow Bars; Wood Clamps; "C" Clamps; Tree Saws; Ax; Hammers; Auger Bits; M.W. Hand Grinder; Nails; Bolts; Tacks; Hammers; punches; Chisels; Trowels; Metal & Wood Files; Plyera Steel Work Bench; Drive Pulleys; Oil Cans; Playmate & Gott Coolers; Thermos (2); Lawn Chairs; 2-Gal Shop Vac; 5-Gal Shop Vac; Picnic Table; Patio Chairs; Rakes; Scoop Shovel; Pitch Fork; Spade; Post Hole Digger; Weedeater Electric Blower; B&D Hedge Trimmer; Hoses; Watering Cans; Bird Feeders; Extension Cords; Stadium Seats; & More.

AUCTION

SATURDAY, SEPTEMBER 24 — 9:00 AM
707 S. IOWA, KANOPOLIS, KANSAS

Collectibles: 1949 Willys Jeep CJ3A; 2000 F150 Ford pickup; Edison Mazda tin automobile display; Model Tobacco advertising sign; Gooch Feed tag; Camp Phillips military tag; 1920's-40's car tags; 30+ pink depression Cherry Blossom; Western Stoneware crock chicken waterer top & other crocks; 1920's Shipley saddle; small primitives; complete line of household; tools & woodworking equipment.

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AUCTION

SATURDAY, SEPTEMBER 17 — 9:30 AM
6501 West US 50, NEWTON, KANSAS

There are few small items. Will be finished by noon.

For information, call **Brian 316.772.2839**

FARM EQUIPMENT: 1984 Allis Chalmers 8070; 1983 AC 8050; D17 AC Series 111; IHC 1086 Tractor; 1971 AC 190 XT Series 111 Diesel Tractor/GB Loader; 1995 Gleaner R52 Combine; Gleaner 20' 520 Header; Great Plains Solid Stand 2 Sec. 30' x 7 1/2" Drill; D & K 300 Bushel Tandem Axle, Gooseneck, Gravity Trailer; JD 535 Netwrap Baler; EZ Trail 230 Seed Wagon with Hydraulic Auger/4 Wheel Running Gear; Crust Buster 3400 Drill 15/8" Double Disc; New Holland 269 Twine Tie Baler; 1991 Circle D 18' Gooseneck Livestock Trailer; (2) Hay Trailers; EZ Trail475 Bushel Grain Cart; Krause 32' Flex Cultivator; Krause 1580 Tandem Disc; JD Side Delivery Rake; 3PT 6 Row Cultivator; Hesston 1014 Pull Type Swather; Krause 1073 15 Shank Chisel; IHC 540 Manure Spreader; Huskee Model 165 Gravity Wagon/Wheel Running Gear; 4 Bottom Semi-mount PLOW; Fiberglass Fertilizer Spreader Trailer; Combine Header Trailer; 300 Gallon Sprayer; Rotary Hoe 6 sec. **FARM RELATED:** 1968 Chevrolet Truck, 16' Bed & Hoist; Stockracks for Truck; 60+ Bales, 1300 lbs. 2015 1, 2 & 3 Cutting Alfalfa; Trenton Anvil; Grain Cleaner; Silage Cutter; 10' x 25' Portable Grain Auger-PTO; (2) 300 Gallon Fuel Tanks/Stands; 130 Gallon Fuel Tank; 2 Wheel Trailer; Rhino 3PT Posthole Auger/12" Bit; 3PT Bale Spear; PTO Wire Winder; (2) 4' x 10' Grain Augers; Pickup Bed Trailer/2-130 Gallon Fuel Tanks; Oil Barrel Hand Pump; Sheep Shearing Equipment; (6) JD Fertilizer Boxes; Rolatape Wheel, Floor Jack; Engine Hoist; Hydraulic Wood Splitter; Aluminum Extension Ladder; Minn Kota Maxxum 24V Trolling Motor, 65 LB. Thrust; Fifth Wheel Stabilizer Jack; (4) 16" Wheels & Tires for 2007 2500 HD Silverado/Center Caps; Misc. Tools & Scrap Iron;

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Antibiotic resistance and residues: know the difference

LLC.

October 15 — Shop tools & equipment, antique tractor & items & misc. at Minneapolis for Art Weis Repair. Auctioneers: Bacon Auction Co.

October 15 — 83.9 acres m/l of Washington County Land held at Linn for Denny Trumble Rev. Trust & Jan Radley. Auctioneers: Midwest Land & Home.

October 15 — Business Liquidation for Custom Hardwoods, personal property & real estate for Jon Nelson & Leon Nelson. Auctioneers: Griffin Real Estate & Auction Service.

October 16 — Three bedroom home, Car, Antiques, Glass, Furniture, Collectibles. Lydon, KS. Property of the late Marjorie M. Dlugosh. Auctioneers: Wischropp Auctions.

October 17 — Jewell County land held at Republic for Charlotte Walters Estate, James R. Brooks Trust, Anna M. Hoover Trust. Auctioneers: Thummel Real Estate & Auction, LLC.

October 18 — Mitchell & Jewell County land held at Jewell for Beverly Smiley & Paul Hartsel. Auctioneers: Thummel Real Estate & Auction, LLC.

October 18 — 237.08 acres m/l Marshall County land held at Frankfort for Jones/Stewart Farm. Auctioneers: Midwest Land & Home.

October 20 — 79.4 acres m/l Morris County land held at White City for William Baker Revocable Trust. Auctioneers: Midwest Land & Home.

October 22 — Roseville, Fi-esta, Hull, carnival, furniture, dolls & collectibles at Salina. Auctioneers: Thummel Real Estate & Auction, LLC.

October 22 — 252 acres m/l Republic County land held at Munden for Roger & Pam Dean. Auctioneers: Midwest Land & Home.

October 22 — Motorcycles (2005 Harley Davidson Sportster, 1985 Harley Davidson Iron Head Sportster), antiques, collectibles & misc. at Salina. Auctioneers: Baxa Auctions, LLC.

October 26 — Fink Beef Genetics Angus & Charolais Bull Sale at Randolph.

November 12 — Moser Ranch 25th SimAngus, Simmental & Angus Bull Sale at the ranch, Wheaton.

As a livestock producer, you likely are aware of the new antibiotic regulations from the U.S. Food and Drug Administration (FDA) that will take effect Jan. 1, 2017. However, what's likely less clear is the discussion about antibiotic resistance, which is at the center of most conversations about this important topic.

Definitions Provide Context

"Antibiotic residue" and "antibiotic resistance" are often confused, according to Dr. Jennifer Koeman, director of producer and public health for the Pork Check-off. However, she says the two are not interchangeable, and it's important to understand the difference.

"Producers are very aware of antibiotic residues and understand what they are," Koeman said. "This was a driving force behind the original Pork Quality Assurance® Plus (PQA Plus®) program nearly 30 years ago. It's only when the discussion turns to antibiotic resistance that many people, including many consumers, can get quite confused."

Antibiotic resistance occurs when bacteria develop the capacity to inactivate or exclude antibiotics, or develop a mechanism to block the inhibitory or killing effects of antibiotics. The bacteria survive, continue to multiply and spread, causing more harm.

Antibiotic residue refers to molecules that remain in meat from animals that have been treated with antibiotics. During the drug approval process, the FDA establishes tolerance levels or maximum residue limits (MRLs) in edible tissues to ensure consumer safety. A violative residue occurs when a food animal is marketed with drug residues exceeding the designated MRL, which is illegal. USDA's Food Safety Inspection Service tests for violative drug residues at harvest to ensure that meat is safe to enter the food supply.

According to pork safety expert Steve Larsen, who serves as assistant vice president of the Pork Checkoff's science and technology department, the U.S. pork industry has an extremely low incidence of violative residues in market hogs. However, sows and lightweight roaster pigs can sometimes present residue challenges because they fall outside of the typical marketing cycle and may have different treatment require-

ments than market hogs.

"These pigs require careful planning and extra veterinary guidance to ensure that all withdrawal times are followed to avoid potential violative residues," Larsen said.

Antibiotic resistance is another story. "It's multifaceted, is not easy to understand, and solutions are complex," said Lonnie King, DVM, dean of the Ohio State University College of Veterinary Medicine. The former director of the Centers for Disease Control's new National Center for Zoonotic, Vector-Borne and Enteric Diseases spoke at the recent Pork Industry Forum in Indianapolis.

"It's no surprise that antibiotic resistance has increased, but it is surprising how fast it's increasing," King said. "It is a national and global crisis, and it's the most significant health problem that humans face."

As a global concern for both animal and human health, antibiotic resistance and the use of antibiotics require broad collaboration. This is at the core of the One Health Initiative's worldwide mission. (See Pork Industry Guide to Responsible Antibiotic Use at pork.org/antibiotics.) One Health involves medical doctors and patients, veterinarians and farmers, along with government, researchers and industry stakeholders working together to find ways to combat antibiotic resistance and attain optimal health for people, domestic animals, wildlife, plants and the environment.

"The One Health concept resonates with me, and I think most producers understand the relationship - people, pigs and the planet are all connected in many ways," said Terry O'Neel, National Pork Board treasurer and Friend, Nebraska, pork producer. "The common goals are to minimize the potential emergence of antibiotic-resistant bacteria and to maintain antibiotics' effectiveness for animal and human health, creating a win-win for all."

King said, "This is different than residues. Pork producers have addressed residues with PQA Plus, which is a wonderful stepping stone to address antibiotic resistance. Pork producers have long been progressive leaders in animal agriculture, and I think they will continue that role as we tackle antibiotic resistance."

Antibiotic Resistance:

A Complex Issue

Antibiotic resistance is a completely different topic from residues and certainly is more complex, Koeman said. Animal health and public health experts agree that antibiotic resistance has occurred for millennia, independent of human involvement and modern-day antibiotics.

"However, antibiotic use, whether in human health, animal health or agriculture, can apply selection pressures for antibiotic-resistant bacteria to develop," Koeman said.

"Antibiotic-resistant bacteria may not respond to treatment in humans or animals if and when they cause illness."

Koeman added, "That's why responsible antibiotic use involves everyone, from doctors to veterinarians to food producers to consumers in general. People need to maintain their health, follow doctors' prescriptions and practice food-safety practices when handling and preparing all types of food."

Systems Are in Place to Monitor

Over the past decade, the FDA and USDA, along with the veterinary community, animal health companies, food producers and other stakeholders, have put several layers of human-health protection in place to reduce resistance risks associated with antibiotic use in animals.

According to the Animal Health Institute, comprehensive measures to reduce the threat of antibiotic resistance include: a stringent FDA drug approval process, FDA post-approval risk assessment, government food-safety monitoring programs, responsible-use programs for veterinarians and farmers and pathogen-reduction programs.

The federal government also closely tracks antibiotic resistance in specific bacteria through the National Antimicrobial Resistance Monitoring System (NARMS), a cooperative program among the FDA, the Centers for Disease Control and Prevention and USDA. The agencies do everything from collecting samples from harvest and processing facilities, to monitoring antibiotic resistance trends in farm animals, to monitoring and col-

lecting samples in humans.

"The pork industry has been actively engaged in working with these agencies over the years to better understand all of the risk components of antibiotic resistance risk and how we can work together to find sensible, science-based solutions," Koeman said.

Producers Contribute to Decades of Progress

The pork producer's role in antibiotic resistance centers on responsible use, which is not a new concept. For more than 30 years, pork producers, veterinarians and animal health experts have worked to ensure that antibiotics are used responsibly on the farm. Self-improvement and management programs such as PQA

Plus have led the way.

Another major step on the horizon for producers is to comply with FDA's new antibiotic regulations that will eliminate the use of certain antibiotics for growth purposes. As of Jan. 1, 2017, FDA Guidances 209 and 213 will make it illegal for medically important (to human health) antibiotics to be used to promote growth in food animals. FDA Guidance 209 also requires veterinarian oversight when administering medically important antibiotics to food animals to treat, control or prevent a specific animal health issue.

"This is the first time that a national strategy has invit-

Continued on page 16

AUCTION

SATURDAY, SEPTEMBER 17 — 9:30 AM
991 East 2400 Rd. — EUDORA, KANSAS

3 Miles South of Eudora on Dg. 1061(2200) to 1000 Rd. turn East 2 Miles to 2400 Rd. South To Auction! **Watch For Signs! Concessions**
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AUCTION

SATURDAY, SEPTEMBER 17 — 9:00 AM
Offering for sale at Public Auction, located at 402 S. Main, CANTON, KANSAS

CLASSIC VEHICLES, GARAGE, COLLECTIBLE & HOUSEHOLD

1957 Nash Metropolitan car, restored, nice; 1963 Volkswagen Beetle, original, after market AC; 1968 Ford Ranger 100 pickup, 82K; Western Flyer bike; Lincoln welder; Kennedy roll away toolbox; cherry picker; 20 ton shop press; Bainbridge metal cutting saw; Campbell Hausfeld air compressor; pu topper; tires & wheels; car parts; old Ford hood; sq. cage fan; scaffold; garden supplies; hand tools; bolt bin; drill press; shelves; oil cans; log chain; radial arm saw; enamelware; 2 man saw; sprinker can; lanterns; old signs; hay knife; old windows & doors; cabinets; stained glass window; piano; trunk; dressers; chests; old tables; treadle

sewing machine; kegs; drop leaf table; wooden advertising boxes; pictures; old fixtures; parlor table; end tables; jars; records; floor lamps; chairs; milk glass; pottery; cast iron; Christmas items; tea pots; milk bottles; ice tongs; fabric; New Home quilting machine; day bed; Jenny Lynn bed; library table; wicker rocker; doll buggy; wash stand; pitcher & basin; Aladdin lamp; McGill's Dept. Store Canton thermometer; wooden loveseat; doll furniture; dolls; hat pins; refrigerator dishes; plates; baking dishes; insulators; old frames; Jewel Tea; oil lamps; pop bottles; pens & pencils; cookie jars; primitives; recliner; pocket knives; china sets; sad iron; sheet music; luggage; wall phone; cookbooks; china cabinet; & more.

ARLETTA (OTIS) KOEHN, SELLER

TERMS: Cash day of sale. Statements made day of sale take precedence over advertised statements.

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AUCTION

SATURDAY, SEPTEMBER 17 — 10:00 AM

Auction will be held in the Republic Co. 4H building in the Northeast corner of BELLEVILLE, KANSAS

TOOLS

New TQ 8250 generator; Comet 12" wood lathe; Grizzly 13" planer molder; Craftsman 10" table saw; Grizzly belt disc sander; Delta 12 1/2" portable planer; Delta 8" drill press; Craftsman contractor 6 1/8" jointer planer; Craftsman 12" 2 speed band saw; Craftsman 16" scroll saw; Delta 12" wood lathe; Delta hollow chisel mortise; Grizzly belt disc sander; steel wool; Craftsman 1 1/2 hp router w/table; new Chicago drill; Penn State heavy duty dust collector; Ryobi biscuit jointer; Ryobi router; Craftsman router, circular saw, 1/2 sheet

sander, reciprocating saw, 3" belt sander; roller stands; Bosch sander new; Craftsman 8" wood turning face plate; drill bits; Wen 1/2" drill; 3" air cutter, impact; Bosch jigsaw; 12 volt air compressor; Troy Bilt Pony tiller; Yard Machine tiller; Garrett & BFO metal detector; man & ladies bike; new corner clamps; pipe clamps; C clamps; hammers; lathe tools; wood chisels; hand saws; drill bits; hole cutters; squares; assortment other tools; files; Air Speed nailer new; Craftsman air tools; socket sets; wire cutters; screw drivers; pliers; calipers; Dewalt angel grinder;

air chisel; combination wrenches; new wood working bench; spray gun; new 12 volt vacuum; magnetic pickup; new miter box; masonry tools; saw blades; spot lights; wire brushes; motion light; tie downs; paint brushes; work gloves; welding goggles; new trailer jacks; extension cords; assortment sandpaper; assortment new bolts; light kits; saw horses; detail sanding triangles; air hose; new yard hydrant; Wagner painter; wooden box; blue granite iron; corn bread mold; Victor adding machine; large assortment of tools and supplies, many new.

Note: Check our web site for pictures at www.thummelauction.com. There are many new never used tools.

PAT NIELANDER

Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC
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- Follow the email link and You are Ready to BID & BUY!



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Antibiotic resistance and residues: know the difference

Continued from page 15

ed animal agriculture, as a respected member, to be part of the solution," King said. "This is not about zero use of antibiotics; it's about judicious use."

King says when producers have a working understanding of antibiotic resistance, it helps put their own on-farm antibiotic strategy into a bigger context of both animal and human health.

"This is not about regulations; it's about a mindset and working with your veterinarian to make sound decisions," King said. "Most

importantly, don't wait for Jan. 1, 2017. Start preparing today."

Many Paths to Success

Of course, antibiotics are just one tool in a producer's animal health plan, which includes proper nutrition, clean water, air ventilation, temperature management, animal housing maintenance, animal care and even genetics, Koeman said. Vaccinations are key, used at the right time, on the right organisms, as well as heightened biosecurity measures to minimize the pathogens that animals encounter.

The PQA Plus program outlines steps for responsible antibiotic use, which can help minimize the potential risk of resistance developing within a herd. Here are points to consider:

Use antibiotics for treatment only when there's an appropriate clinical diagnosis supported by clinical signs, necropsy, laboratory tests, herd history and other factors.

Identify factors that contribute to the cause of the disease, such as management, stressors and pig flow, which are all part of an accurate diagnosis.

Consider herd health history along with diagnostics that include culture and sensitivity tests to help in antibiotic selection.

Consider group morbidity and mortality rates when deciding whether to initiate herd, group or individual therapy.

Limit antibiotic treatment to ill or at-risk animals, treating the fewest animals indicated.

"There are times when administering antibiotics to prevent disease will mean fewer antibiotics will be used than if treating the same animals following an

outbreak," Koeman said.

"Responsible treatment involves administering antibiotics only when necessary to the smallest number of animals feasible and for the appropriate amount of time necessary to prevent disease reoccurrence."

Discuss product options with your veterinarian to select the most appropriate therapy for the specific situation, as well as any antibiotic-resistance implications for your farm and human health.

"Work with your veterinarian to develop treatment protocols to minimize the development of resistance or cross-resistance," Koeman said. "Have a written action plan for antibiotic use and review it regularly with your veterinarian."



BAXTER BLACK

ON THE EDGE OF COMMON SENSE

Red Angus Association of America releases Fall EPDs

Making critical decisions about the future of your breeding program demands the very best tools and up-to-date information available. The Red Angus Association of America (RAAA) has released the 2016 Fall EPDs that evaluate traits from calving ease to performance to carcass merit. The suite of numbers includes tools to select cattle with optimum economic relevance such as stayability, heifer pregnancy and maintenance energy requirements. GridMaster and HerdBuilder indexes offer

a comprehensive tool to help cattlemen achieve their breeding goals.

The Red Angus breed has been dedicated to Total Herd Reporting (THR) for two decades, creating an accurate database of Red Angus genetics and subsequently, EPDs trusted by ranchers. EPDs are displayed with their in-breed ranking percentile to assist cattle producers with their trait-selection decisions.

"With THR data, we are provided with comparisons between all animals in each contemporary group," said

Larry Keenan, RAAA director of breed improvement. "Since EPDs rely on measured variation within a contemporary group, THR provides for reliable EPDs and faster gains in EPD accuracy by ensuring that the variation in the performance of each calf is counted."

Red Angus' strong foundation of THR data combined with genomic data from high-density DNA tests provides EPDs with high reliability. The information from the genomic data can be as informative as a bull's first calf crop or a cow's life-

time production record. And, since the genomic data is incorporated directly into the EPDs, cattle producers don't have to learn how to interpret new data. The information will be delivered in the form of higher accuracy EPDs.

For more information on EPDs, visit the "Genetics" page on the RAAA website, RedAngus.org. Producers can also access individual animals' EPDs and breed percentiles, or calculate the projected EPDs of specific matings on the website.

County Fair Buy Out

"Roy, can you show us the scar? It's gotta be a big one!"

"What scar?"

"Where they took your conscience out!"

"Aw, Kendall, yer full of it! What would an order buyer know about a conscience anyway!"

"I was just down to the fair office. I noticed that you put a floor bid on all the kids' show steers. I've never seen anything so low! It's shameful! Little kids came up to me with tears in their

eyes. It broke my heart. And you, the owner of one of the biggest auction markets in the state!"

"I'll have you know that I was the first one to price them and it was left open for two hours if anyone wanted to up it. Besides, they're kids. It's good experience for 'em."

"There were adults crying, too, Roy. Grown men, weeping silently."

"Hump."

"Now I'd be willing to buy 'em from you at 25 cents a hundredweight above your floor price. I'd hate to see you accused of making exorbitant profits from the sweat and toil of innocent farm kids. There are child labor laws now, Roy. But I'm only thinkin' of you, Roy. You tossing and turning, unable to sleep knowing that you literally took the food from their trembling mouths."

"You're crazy if you think I'm gonna give 'm to you at a quarter above! I've floored the cattle for the last ten years here at the fair. I have a reputation to maintain. I'm only doin' it for the kids."

"The little waifs gathered around me, Roy. Like birds in the winter. They looked up at me with big sorrowful eyes and asked me, 'Mister, what are cattle really worth?' It was all I could do to keep from breakin' down right in front of them."

"A quarter above! I might take \$2 above if I don't have to hold 'em."

"Roy, Roy, Roy, I'm only offerin' to take 'm off your hands for your own good. It might give you a little peace of mind. You're not the kind of man who robs the blind man's cup or picks up the tip off the next table. Remember, it is more blessed to give to a regular customer than to keep it all for yourself."

"Two dollars."

"Roy, that's fifty cents above the market. Think of the children. You'll be haunted by nightmares of gaunt homeless 4-H kids endlessly marching in a circle leading fat steers. Little kids with shattered dreams of college or a new bike. Pee Wees dragging chains through your troubled dreams whispering your name... Scrooge, Scrooge, Scrooge ..."

"Buck seventy-five."

"Roy, for the sake of the children and your own sense of decency let me lift the burden from your heart to mine. Let me bear the guilt. Let your scar begin to heal."

"Buck fifty."

"Sold. I'll have a truck here Sunday morning."

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