

## Grass & Grain columnist Ralph Galeano passes away



Long-time *Grass & Grain* columnist Ralph Galeano passed away Tuesday, June 18, 2019 after a long battle with cancer. Ralph had written a column known as Cowboy Chatter for *Grass & Grain* for many years.

Ralph was born in Baltimore, Maryland.

Ralph was a pilot, an adventurer, a sportsman, an outdoorsman and a true friend. In later years he wrote several books and

many articles for magazines, including a column in *Grass and Grain*. One of his books was titled *Alaska Challenge*. This is a book about his experiences in Alaska: trapping, hunting, sport fishing, flying and commercial fishing. He also wrote Western novels.

He loved Quarter Horses and did very well in experienced cow pony competitions with horses he raised and trained. He competed up until he began having health problems just a few years ago. He was competing against people half his age, and did very well, building a great reputation for his horses.

A memorial for Ralph was held on July 6, 2019 in Florida.

Cards may be sent to his wife Sandy at 6335 N.W. 145 Ave., Morriston, Florida 32668.



Pat Buckley, rural Concordia, sent this photo of her two future farmer grandsons, Dallen and Kolby, farming in the dirt under the playset.

## ASF vaccine research takes step forward

Scientists at The Pirbright Institute in the U.K. have identified African swine fever virus (ASFV) proteins that can trigger an immune response in pigs, and the team hopes to develop a vaccine using these proteins that is capable of protecting against the deadly disease, the institute said in an announcement.

Published in *Frontiers in Immunology*, the study shows that when some pigs were challenged with a virulent strain of ASF after receiving a vaccine that included the identified proteins, the level of virus in the blood was reduced, Pirbright said.

"This demonstrates that this method of vaccination could provide effective protection to pigs, though further work is needed," said Dr. Chris Netherton, head of the ASF Vaccinology Group at Pirbright.

To determine which ASF proteins should be used in the vaccine, the team screened proteins to find those that activated immune cells in pigs that had previously been infected by a weakened form of ASFV, Pirbright said. The 18 proteins that generated the strongest immune cell response were then transferred into viral vectors — viruses that deliver the ASF proteins to pig cells but are not harmful to pigs.

"ASFV has more than 150 proteins; understanding which of these triggers an immune response is difficult but crucial for creating this kind of

vaccine. Now that we have identified proteins that activate pig immune cells, we can work on optimizing the vaccine components to ensure pigs are protected against virulent ASF strains," Netherton added.

ASF infects all pigs and wild boars and can cause fever, loss of appetite, vomiting and bloody diarrhea. The disease is often deadly, with some strains approaching case fatality rates of 100%. Although the virus does not cause disease in humans, it poses a significant threat to food security and has a substantial impact on the economy, especially on trade and farming. ASF has already resulted in the culling of more than 1.1 million pigs in China and nearly 2.5 million pigs in Vietnam alone.

Culling, quarantine and strict biosecurity measures are currently the only defenses farmers can use to prevent ASF spread, Pirbright said.

The development of a safe and effective vaccine is, therefore, vital for preventing the transmission of ASF, the institute explained, noting that it is increasingly urgent considering the rapid spread of the disease through Europe and China.

Pirbright noted that there are various types of ASF vaccines being researched, but relatively little is known about the virus and how the immune system responds to it, which hampers vaccine progression.

Vaccines made with inactivated viruses have not offered protection to domesticated pigs, and although live attenuated vaccines (which contain weakened versions of a live virus) show promise for protection, more testing is needed to ensure their safety, the institute said. Pirbright researchers hope that these vector vaccines will provide an alternative that could help control the spread of this devastating pig disease.

## K-14 ONLINE & LIVE CONSIGNMENT AUCTION

**SATURDAY, JULY 27, 2019 — 9:00 AM**

**LOCATION: K-14 Auction Center, 10919 S. K14 Hwy — HUTCHINSON, KANSAS 67501**  
**NOW TAKING CONSIGNMENTS:** Vehicles; RVs; Boats; Trailers; Tractors; Farm Equipment; Livestock Equipment and Supplies; Lawn and Garden; Shop Tools; Farm Primitives; Antiques and Collectibles; Construction and Building Material; Anything with Cash Value!



**TRUCK, TRACTORS & EQUIPMENT:** 2014 Ford F250 Super Duty Gas Pickup w/80k miles, 4 WD, (very clean); 2016 New

Holland T 4.110 w/616 HRS and 665 LT Loader w/skid steer attachment and joystick, 100 HP, Power Shuttle Transmission w/24 Forward and Reverse, plus a reverse lever and HI-Lo switch, 2 sets of Rear Remotes, Push button 4WD, AC and Heat, AM/ FM Stereo, Factory Warranty till 3-4-2020, and Emissions Warranty till 3-4-2023; IH 300 w/Loader; Ford Jubilee w/4900 Hrs and Loader; Jinma 25HP (needs work). 1999- PJ 20' Flatbed Gooseneck Trailer; 2014- 6'x14' CM Stock Trailer(like New); New Skidsteer Attachments; Shaffer 16' Disc; IH 14' Disc; Krause 12' Disc; IH Rollbar Rake; 6' Blade; 6' 3pt Disc; 21' Deck Boat 175 HP; JD 3 pt Springtooth; 2 Bt Plow; King Kutter 3 pt Stone Rake; plus more.

**MISC ITEMS:** Husqvarna 48" Mower; Stihl Blower; Stihl Mini Tiller; Stihl Weed Eater; Snapper Rear Tine Tiller; 2 Cubic Yard Cement Mixer w/ electric Motor; TWS Milling Machine w/bits; ACME 30" Shears; Kennedy Tool Chests; Vinyl and Wood Snow Fence; Werner Ladders; Patio Set; Bicycles; Park Benches; Handyman, Avery and Lawnmower Jacks; Marlin 22 cal; Sears 12 ga; Submersible Pump(NIB); Lots of Hand and Power Tools; Lawn and Garden Supplies; Livestock Equipment; Fencing Supplies; 96' New 4 Rail White Vinyl Fence; Electric Chain Hoist; Gas Powered Twin Tank Compressor; Propane Tanks; Lumber and Metal; Construction Supplies; plus hundreds of items being consigned daily.

**NOTE:** Spring auction was well-attended with 5 crews selling throughout the day and a very good selection of tractors and farm equipment. On-line equipment and tractors sold to various buyers ranging from Montana to Pennsylvania, so **CONSIGN YOUR ITEMS EARLY** for better promotion and advertising. Unloading schedule is July 22 thru July 26th or until lot is full.

Watch Auctionzip and Proxibid sites for updates and photos.  
Send all info to morris\_yoder@yahoo.com or call 620-899-6227

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**Due to the high heat index on Friday, July 19th, most of our consignments cancelled till next week. We did not have enough cattle offered to fully test the market.**

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**AGE MO**

Lyndon 2 Cross 5-6 1-3 @1400.00

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Lyndon 2 Cross 5-6 @1285.00

Lyndon 2 Cross BM @1185.00

Lyndon 2 Cross SS @1050.00

Lyndon 1 Cross BM @900.00

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**AGE MO**

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Hiawatha 2 Cross 3 8 @1600.00

Hiawatha 1 bwf 3 8 @1525.00

Hiawatha 3 blk 3-4 6 @1525.00

Hiawatha 1 blk 3 7 @1425.00

Lyndon 1 Cross 6 8 @1150.00

Hiawatha 1 blk 4 7 @1125.00

Hiawatha 5 blk 3-4 8 @1060.00

Olsburg 2 blk BM 8 @060.00

Olsburg 1 Cross BM 7 @900.00

**COWS — 975-1,625 LBS**

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Olsburg 1 blk 1055@59.00

Olsburg 1 blk 1370@58.50

Randolph 1 blk 1070@57.50

Manhattan 1 blk 1285@56.00

Lyndon 1 Cross 1260@55.50

Wheaton 1 blk 1170@55.50

Olsburg 1 blk 1325@54.00

Lyndon 1 Cross 1020@51.50

Lyndon 1 Cross 980@49.00

Lyndon 1 cross 1060@46.50

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• 30 blk, bwf strs & hfrs, ID tags, 1 rd pre weaning shots, 600-700 lbs.

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## K-State Applied Swine Nutrition team members share options to limit foreign animal disease through the feed supply chain

The K-State Feed Safety Team recently released an article featured on the front cover of the June 2019 issue of Feedstuffs magazine, which highlighted options for feed manufacturers as they work to minimize the risk of foreign animal disease entry into the United States. The article is available at: <http://bit.ly/FeedstuffsCover>.

The article was authored by Cassie Jones, ASI associate professor; Jason Woodworth, ASI research professor; Steve Dritz, Diagnostic Medicine/Pathobiology professor; and Chad Paulk, Grain Science & Industry assistant professor.

As African swine fever virus (ASFV) continues to spread across Southeast Asia, classical swine fever virus (CSFV) expands within Japan, and foot and mouth disease virus (FMDV) reports continue from China, there is increased concern that foreign animal disease (FAD) may enter the United States. Their entry would be devastating to the swine industry, but also to those that produce feed and ingredients fed to pigs.

There are many potential routes for FAD entry into the United States, with ingredients being just one. The U.S. Customs Border Patrol, USDA, FDA and other entities are taking steps to limit entry through more direct methods, such as regulating the importation of

live animals or smuggling of pork products, but it is the responsibility of the feed industry to minimize the potential for FAD entry through a feed vehicle.

Reports of ASFV presence in feed are already occurring. The Ministry of Agriculture and Rural Affairs of the People's Republic of China has reported that 22 of the 68 reported ASFV outbreaks had an epidemiological root cause linked to contaminated swill or feed. It is likely that most of these outbreaks are due to swill feeding in transitional, backyard swine herds. However, there is evidence that ASFV contamination exists in ingredients used in modern production.

Strenuous actions are necessary to prevent feed mills from being a source of cross-contamination. Here are some recommendations for swine feed manufacturers to consider to minimize the potential for ASFV and other FAD entry and transmission via the feed supply chain:

Know your supplier. It is key that facilities can identify the supplier of the ingredients coming into their facility.

Do not use grains or oilseeds (or their resultant meals) from regions with foreign animal disease. Mills manufacturing feed for multiple species should follow this suggestion for the entire mill, not just ex-

clude it from swine feed.

If using other ingredients from regions with foreign animal disease, take steps to ensure they are at low risk for disease transmission. Consider both the point of manufacture and its method of transportation. It may be appropriate to have different procedures for receipt of ingredients transported in different forms.

Use porcine-based ingredients with caution. Porcine-based ingredient production is likely to contain a kill-step capable of destroying viruses. However, post-processing cross-contamination may exist, causing the potential for these ingredients to be sources of viral entry into mills.

Implement biosecurity at the mill. Biosecurity procedures have been in place for decades on swine farms to limit disease transmission by people and delivery vehicles. These same principles should be extended to mills.

When delivering feed, use cleaning and disinfection stations prior to entering and exiting farms. Alternatively, consider unloading feed across a line of segregation or fence into another feed truck or extend augers so bins can be filled on the exterior of the line of segregation.

We are in a new era of feed production, where feed safety is just as paramount as quality and tonnage. Unfortunately, some mills struggle to implement changes that maximize feed safety because it is difficult to establish a return on investment calculation for the extra effort. Still, the cost of foreign animal disease entry into a mill would be catastrophic, and therefore we must adapt our culture to make feed that is not just wholesome, but also safe.



## The Art of the Fix

By Miranda Reiman

4-H prep should be an Olympic sport. Or at least it felt that way as I helped my older kids get ready for entry day at the county fair. Forms filled out, recipes found, last coats of paint applied. It's a race against the clock. Even with a couple of decades behind her, I think my mom still gets flashbacks to the anxiety around the third week in August.

As I got in the car to drive to our fairgrounds recently, I exhaled a sigh of relief through my ironic smile at all that didn't go right this year.

The flowers that weren't blooming in time for the table setting centerpiece? We bought silk. The paint that wouldn't dry in the unusually humid weather that stayed on all week? My son had to apply a touch-up or two after it was loaded into the pickup bed, and then we left a high-powered fan on it until the last second.

Even as we walked up to the table for check-in, it continued: "Those photographs

are supposed to be on tag board, not foam board. They will be docked a full ribbon placing unless you can get that corrected."

We had 15 minutes, more projects to enter and a sleeping toddler in the car, but a Dollar Store across the street held hope. I wanted to just forget it, but my nine-year-old's eyes told me I couldn't.

The solution came in the form of a friend who walked in with extra tag board in the final minutes, a borrowed pair of scissors and rubber cement from the Extension office.

4-H taught me many lessons during my middle school and high school days, but I now have a different vantage point. As mostly support staff, chief encourager and head of the taxi service, this year showed me another truth: you can be pretty creative when you have to be.

Cattlemen and women already know this. Anybody who has ever dealt with a mad mama cow, and still managed to tag that baby, knows that

## NCGA recognizes Fischer with President's Award

National Corn Growers Association President Lynn Chrisp recently presented NCGA's 2019 President's Award to Nebraska senator Deb Fischer. The President's Award is given annually at NCGA's Corn Congress meeting in Washington, D.C. to a leader who has worked to advance issues important to corn growers and agriculture.

"It is my great pleasure to present the NCGA President's Award to Senator Fischer," Chrisp said. "Senator Fischer has been an outspoken advocate for corn farmers from our shared home state of Nebraska and across the country, supporting policies that will help

create market opportunities for corn."

In her remarks to corn farmers, Fischer voiced her support for the pending U.S.-Mexico-Canada Agreement (USMCA), the top legislative priority for corn growers this year. Fischer was a strong advocate for removing the barrier to year-round sales of E15 and continues to stand up for a strong Renewable Fuel Standard (RFS) and against the Environmental Protection Agency's (EPA) practice of providing RFS waivers to big oil companies. Corn Congress delegates approved a "Sense of Corn Congress" recently urging President Trump to uphold

sometimes stressful situations inspire the most creative solutions.

Sometimes you even marvel at your own MacGyver-like skills with a field or roadside repair.

But what problems have you just shrugged off as unsolvable?

I was recently discussing the labor shortage in agriculture with a Colorado producer, noting it's a subject that comes up on every ranch I visit.

"They just aren't creative enough," he said. His calf branding day was fully staffed via a donation to the local wrestling team.

Innovation born from necessity.

Maybe there's a health problem that could benefit from a change in herd management rather than a change in vaccinations. Maybe there's a marketing hurdle that just needs you to build some relationships or back your herd with data, rather than trying a different auction barn.

We often say cattlemen are part scientist, part businessman, with a dose of meteorologist and mechanic thrown in. You're rooted in science, but when great and immediate need comes along, don't forget there's an awful lot of your job that is still an exercise in art.

*Next time in Black Ink®*, Nicole Erceg will look at why any ranch would adopt technologies that are not free. Questions? E-mail [mreiman@certifiedangusbeef.com](mailto:mreiman@certifiedangusbeef.com).

the RFS.

"It's a real honor to receive this recognition from the National Corn Growers Association. From pushing to advance USMCA to securing year-round E-15 sales and working to address small refinery exemptions, I'm proud of the good work we've done together. I look forward to continuing to fight for our corn growers in Nebraska and across rural America," Fischer said.

Fischer sits on the Senate's Agriculture and Armed Services Committees. She is also a member of Senate majority leader Mitch McConnell's leadership team, serving as counsel to the majority leader. A lifelong Nebraskan, Fischer was first elected to the U.S. Senate in November 2012, the first Nebraska woman elected to a full term. She is now the senior senator from Nebraska.



### NATIONAL FARMERS STATE MEETING

**"Tariffs, Weather, & Smart Marketing"**

**Friday, August 9<sup>th</sup> 2019, Waters Edge Restaurant  
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Don Roose, U.S. Commodities as a Grain Market Outlook  
speaker at 7:30 p.m.

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**John Deere 855 tractor, front wheel assist**, 3pt with front loader & weights; Backhoe attachment fits JD855; roto-tiller fits JD855; plow fits JD855; extra front loader bucket & 18" backhoe bucket for JD855; **1938 'B' John Deere tractor; 1936 'A' John Deere tractor**; cast iron skeleton wheel (for 'A' or 'B'); cultivator (fits JD 'B'); disk & plow for JD 'A'; harrow; Cub Cadet 782 lawn tractor/mower; Sears lawn tractor with deck mower; Tractor manuals; Gravely walk behind garden tractor; blade, sickle bar mower for Gravely tractor; antique wood wheeled wagon; 4-wheel wagon (rubber tires); Model 'A' Ford pickup bed trailer; Model 'A' wheel; Shop built 12-ton press; shop built air compressor; Milwaukee sawzall in case; Milwaukee angle grinder & case; Snap-On tools; air tools; jig saw; Snap-On toolbox; rock tumbler; lawn glider; old bicycles; plate glass; lawn windmill; gas BBQ grill; plumbing tools & supplies; antique tools; lanterns; McCormick Deering cream separator; petrified wood; lawn, garden & hand tools; 6' ladder.

Antique Secretary bookcase; round Oak table, one leaf & set of 4 chairs; antique 4-drawer dresser with mirror; Whirlpool side-by-side refrigerator; Kenmore electric stove; Sharp microwave; 2 Antique ice box-ers; treadle sewing machine; 4 & 5-drawer chests; divan; 2 rocker/recliners; modern loveseat; 6-drawer dresser with mirror; small round table; iron twin bed frames; antique high chair; antique baby bed; spring hobby horse; 2 shelf bookcases; mauve divan; antique rocker; recliner; 5-drawer wood chest & headboards; wood rocker; loveseat with pillows; 2-13" color TV's; tapes & player; portable electric fireplace; TV cabinet; file cabinet; console stereo; 22 single shot rifle; table with shelves & rollers; folding & bag chairs; school desk; ice cream chair; exercise bike; metal cabinet; end tables; sewing machine table; steamer trunk; chairs; glass double boiler; antique butter churn; large & small brass fire extinguishers; antique clock; 12place set Gold Wheat dishes; John Deere toys tractors; knives; cups; Fenton compote; kerosene & lava lamps; floor lamp; bookcase; baby dishes; small cuckoo clock;

pink satin creamer & sugar; oil ceiling lamp & other lamps; Anniversary clock; pictures; Jadeite; cookie jar; Corelle dishes; glasses; cups; beer steins; casseroles; cookware; cups; saucers; candy bowl; glassware; toaster; stereo with speakers; several dolls; red bottles & dessert cups; pots; pans; Sunbeam mixer; Home Interior décor; various vases; bedding; afghans; towels; View Master; Singer oil cans; flower pots; Avon bottles; boxes of knick-knacks; kitchen ware; portable record player; older magazines, paper clippings, calendars, post cards, stamps & farm pamphlets; match books; wrist & pocket watch; model ships/parts; old alarm clocks; Indian spear head; kraut cutter; old Girlie pictures; ceramic Miss Piggy; copper boiler; milk cans; gas outdoor stove; bicycle; ice tongs; bottles; hand vac; various radios & electronics; stereos; 8-track tapes; canning jars; plastic lawn chairs; luggage; bird feeders; books; handicapped items; electric typewriter & stand; games; CD's; '45's; Dirt Devil; Bicentennial dishes; fans; paper shredder; flowers & decorations; weather radio; lots more!

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# Kansas Hay Market Report

Hay market trade, activity and demand is slow. The hot and dry weather has everyone busy in the hay field baling hay. The slow start to the hay season, due to the abundance of rain, has everyone scratching their heads and pricing is all over the map. In general, there seems to be a softening of the market for all types of hay. If you have any extra hay to sell and/or need hay here in Kansas, use the services of the Internet Hay Exchange: [www.hayexchange.com/ks.php](http://www.hayexchange.com/ks.php).

### Southwest Kansas

Dairy alfalfa, grinding alfalfa and ground/delivered, steady; movement slow. Alfalfa: horse, premium small squares 225.00-235.00. Dairy 1.00-1.05/point RFV, Supreme 185.00-226.00, Premium 170.00-195.00, Good 160.00-170.00. Stock or Dry Cow new crop 160.00-180.00. Fair/Good grinding alfalfa, new crop 120.00-130.00. Ground and delivered locally to feedlots and dairies, new crop 150.00-170.00; Grass Hay: buffalo/bermuda mix small squares 6.50-7.50/bale, large rounds 65.00-75.00. Wheat straw: large rounds 50.00-60.00. The week of 7/7-7/13, 7,217T of grinding alfalfa and 150T of dairy alfalfa was reported delivered. The average paid by feedlots on July 1 for alfalfa ground and delivered was 179.04, down 11.04 from the previous month, usage was 666T/day, up 4.0 pct., and total usage was 19,975T.

# Kansas River Valley Experiment Field Day planned for August 13

K-State's Kansas River Valley Experiment Field will host its annual field day August 13.

All crop farmers are encouraged to attend the 2019 Kansas River Valley Experiment Field Day on August 13. This is a free event to attend with excellent presentations and a BBQ meal

sponsored by Wilbur-Ellis. Many of these topics will help in having a more profitable and efficient crop production farm.

Crop production including Weed management in Soybeans, Effect of split late N application in corn on yield and nitrogen use efficiency, Cover crop manage-

### South Central Kansas

Dairy alfalfa ground/delivered, alfalfa pellets, steady; grinding alfalfa steady to 10.00 lower, movement slow. Alfalfa: horse, small squares 200.00-210.00. Dairy, 1.00-1.10/point RFV, Supreme 195.00-225.00, Premium 175.00-200.00, Good 165.00-175.00. Stock cow, 140.00-160.00. Fair/Good grinding alfalfa, new crop 90.00-110.00. Ground and delivered locally to feedlots new crop 140.00-150.00; Alfalfa pellets: Sun cured 15 pct protein 200.00-210.00, 17 pct protein 210.00-220.00, Dehydrated 17 pct 295.00-305.00; The week of 7/7-7/13, 4,101T of grinding alfalfa and 100T of dairy alfalfa was reported delivered. The average paid by feedlots on July 1 for alfalfa ground and delivered was 163.48, down 10.94 from the previous month, usage was 249T/day, and total usage was 7,470.5T.

### Southeast Kansas

Dairy alfalfa grinding alfalfa, ground/delivered steady, grass hay steady to 15.00 lower; movement slow to moderate. Alfalfa: horse or goat, 220.00-240.00. Dairy 1.00-1.10/point RFV. Stock cow 170.00-180.00. Fair/Good grinding alfalfa, none reported. Ground and delivered, none reported; Grass hay: new crop bluestem, Good, mid to large squares, 85.00-100.00, large rounds none reported. New crop brome, good, small squares 130.00-140.00, mid to large squares 125.00-150.00, large rounds 90.00-100.00, lesser quality 75.00-85.00; Wheat Straw: mid and large squares 75.00-90.00. The week of 7/7-7/13, 1,138T of grass hay was delivered.

### Northwest Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady; movement slow.

Alfalfa: Horse or goat, 215.00-225.00. Dairy, Premium/Su-

Experiment field.

Tuesday, August 13 - 5:00 p.m. sharp.

Rossville Field — 1 mile east of Rossville on U.S. Highway 24 on the south side of the road

Dr. Dallas Peterson and Dr. Stewart Duncan- Weed management in soybeans.

Dr. Dorivar Ruiz Diaz –

preme 1.00-1.05/point RFV. Stock cow, fair/good 150.00-160.00. New crop fair/good grinding alfalfa, 105.00-115.00. Ground and delivered locally to feedlots and dairies, 125.00-135.00.

### North Central-Northeast Kansas

Dairy alfalfa steady; grass hay 1.00-5.00 lower, steady; grinding alfalfa, ground/delivered steady to 25.00 lower; movement slow. Alfalfa: horse, new crop, premium small squares 9.50-10.50/bale. Dairy 1.00-1.05/point RFV, Supreme 185.00-210.00, Premium 170.00-195.00, Good 160.00-170.00. Stock Cow, none reported. New crop fair/good, grinding alfalfa, 105.00-115.00. Ground and delivered 130.00-140.00. Grass hay: Bluestem, none reported. Brome, small squares 7.50-8.50/bale delivered, mid to large squares 140.00-150.00, large rounds 95.00-105.00, lesser quality 75.00-85.00; Wheat Straw: small squares 5.00-6.00/bale delivered, large rounds 50.00-60.00. The week of 7/7-7/13, 253T of grinding alfalfa and 400T of dairy alfalfa was reported delivered.

*\*\*\*Prices are dollars per ton and FOB unless otherwise noted. Dairy alfalfa prices are for mid and large squares unless otherwise noted. Horse hay is in small squares unless otherwise noted. Prices are from the most recent sales.*

*\*CWF Certified Weed Free*

*\*RFV calculated using the Wis/Minn formula.*

*\*\*TDN calculated using the Western formula. Quantitative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage). Source: Kansas Department of Agriculture - Manhattan, Kansas, Kim Nettleton 785-564-6709. Posted to the Internet: [www.ams.usda.gov/mnreports/DC\\_GR310.txt](http://www.ams.usda.gov/mnreports/DC_GR310.txt)*

Effect of split late N application in corn on yield and nitrogen use efficiency.

Malynda O'Day- Cover crop management for weed suppression.

Chip Redmond- Making the most of the Mesonet: a resource to aid herbicide application.

To pre-register for the ca-

tered BBQ meal sponsored by Wilbur-Ellis, call Jolene Savage at the Shawnee County Extension Office at 785-232-0062, ext. 100 by 5:00 p.m. on Monday, August 12 or email at [lrussell@ksu.edu](mailto:lrussell@ksu.edu)



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# Study advances possibility of genetic control for major agricultural weeds

Waterhemp and Palmer amaranth, two aggressive weeds that threaten the food supply in North America, are increasingly hard to kill with commercially available herbicides. A novel approach known as genetic control could one day reduce the need for these chemicals. Now, scientists are one step closer.

In a study published in Weed Science, researchers from the University of Illinois identified genetic signatures that distinguish male waterhemp and Palmer amaranth plants from females. The discovery is a crucial part of developing a genetic control system for the damaging weeds.

The researchers' goal is to one day introduce genetically modified male plants into a population to mate with wild females. Modified male plants would contain a gene drive, a segment of DNA coding for maleness, which would be passed on to all its offspring, and so on. Ultimately, all plants in a given population would become male, reproduction would cease, and populations would crash.

It's a controversial strategy, but Pat Tranel, the U of I scientist leading the project, says they're still in the very early stages.

"It's important to emphasize that we are not at the point of releasing genetically modified waterhemp and Palmer. We are doing basic research that could inform how we could do that," says Tranel, professor and associate head of the Department of Crop Sciences in the College of Agricultural, Consumer and Environmental Sciences at U of I.

He adds that the team hasn't found the specific gene or genes for maleness in either species. Instead, they identified small genetic sequences associated with a male region, presumably on a particular chromosome. They think the specific gene(s) for maleness lies somewhere within that region.

In the study, the researchers grew 200 plants of each species and each sex, then extracted DNA and determined whether any sequences were unique to a given sex.

"We found sequences present in waterhemp and Palmer males that were not found in females, but no female-specific sequences. Then we took known males from other populations and looked for the sequences – they were there," Tranel says. "Our sequences not only worked, they confirmed males are the heterogametic sex in these plants," Tranel says.

In humans, males have an X and a Y chromosome, and male gametes, sperm, contribute either an X or a Y to the next generation. Females have two X chromosomes, and every egg carries an X. Males are heterogametic; females, homogametic. Similarly, male waterhemp and Palmer amaranth plants produce pollen with either the male-specific Y region or not.

"The fact that males are the heterogametic sex suggests that maleness is dominant. That's good in that it's easier

to control the trait (maleness) if the gene for that trait is dominant," Tranel explains. "When we get to the point of identifying the specific genes for maleness, they would be an obvious target for a gene drive where you could spread that maleness gene in the population."

In the meantime, however, having a set of genetic sequences that can accurately identify males before flowering could help the researchers better understand the biology of the plants and their response to the environment. For example, Tranel says the discovery could help determine if the weeds are able to switch sexes under certain conditions or if one sex is more sensitive to herbicides. Both concepts have been proposed by previous research or anecdotal reports.

In addition to pursuing these basic questions, Tranel's team is now working to find

# AUCTION

**SATURDAY, AUGUST 10, 2019 — 9:00 AM**

**We are retiring from farming and will sell the following items at public auction at the farm located from ABILENE, KANSAS 5 miles south on Highway 15 to 1700 Ave. (Marymount Rd.) then 6 miles west to Camp Rd. then about 1.5 miles south, west side of the road. From SALINA, KS take Marymount Rd. about 12 miles east to Camp Rd. then 1.5 miles south.**

**COMBINE, TRACTORS, TRAILERS & TRUCK (sell last): 2003 JD 9750STS combine** with monitor, straw chopper, bin extension, 20' auger, 20.8x38 radial duals, 2,243 separator & 3,165 engine hours, SN: H09750S701008; 2004 JD 630F **30' flex head**; BBK Series II **header trailer**; 1992 **Ford Versatile 846 4x4 tractor w/Degelman dozer**, bareback, 4 SVCs, Cummins engine, 480/80R 38 radial duals all around, SN: D931199; **IH 5488 tractor**, 18.4x42 duals, 10 front suitcase wts., 3 SVCs, quick tach, 6.652 hours, SN: U002242; **1968 JD 4020 w/JD 158 loader** w/bucket & grapple, synchro mesh, good 18.4x34 rears, rear wts., over 10K hours, SN: RW4020R199633; Travalong 20' 5th wheel **stock trailer**; Travalong 24' 5th wheel dovetail **flatbed trailer** w/ramps; 1963 Ford **straight truck** with 15' grain bed, V-8, 4x2 speed, running order.

**FARM MACHINERY (hope to get here by 11:30):** 2016 JD HX15 **batwing mower**, has mowed about 100 acres, like new; **2014 Wrangler 5th wheel portable corral** w/large 2 pen setup, holds 150 cow/calf pairs or 150 300# to 800# steers, excellent; **28' Sunflower #1434-29 disk** w/walking tandems; Sunflower #2412 11 shank **chisel/trash mulcher** w/walking tandems, 5 bar spike tooth lever; Kent Series 5 36' **field cultivator** w/3 bar spike tooth lever; **Kewanee Tillage Saver** 10 shank 12' chisel w/front discs; **Killbros 490bu. grain cart** w/bin ext, Hoover rollover tarp, 23.1x26 tires, nice; IH 8610 **bale processor**; 12' **landplane** (soil mover); 8' 3pt. **blade**; JD hay **rake**; pull type **sprayer** w/500G tank; Speed Co. PTO **post hole digger** w/12" bit; 3pt. **bale fork**; older **Kelly Ryan** feed wagon; **Grain-O-Vator** wagon; 5 bottom **Oliver plow**; 30"x6" grain **augers**; 3pt. **rotary hoe**; **hay racks**; old JD #33 **spreader** full of iron, for salvage; **fuel trailer** w/tank & 12V pump; Lincoln Weldanpower **AC/DC welder** with generator on trailer.

**ANTIQUE TRACTORS & MACHINERY (after livestock equipment):** 1937 Farmall **F-20**; 1928 McCormick **10-20** on steel; 1945 **Farmall H** w/HH wide front; 1943 **Farmall H** narrow front w/loader; 1939 Farmall **F-14**, motor stuck; 1934 **AC WC** on steel, doesn't run; 2 old AC **plows**; MM steel wheel **drill**.

**LIVESTOCK EQUIPMENT & MISC (sell first):** 2004 Pearson **working chute** w/self catching headgate; homemade **working alley**; 2015 Filson **calf cradle**, like new; lots of metal cattle **gates & panels**; **gate trailer**; several 16' metal **feed bunks**; **stock tanks**; **bulb bin**; rd. **hog feeder**; old **chutes**; **T posts**; **elec. posts**; **wire**; **telephone poles**; some **well pipe**; 60+ pieces corrugated **new & used tin**; nice **500G D tank w/10V pump**, 5 years old; 300G **D tank on stand**; 40' semi **van trailer** on wheels, used for storage; **stem** to adapt 5th wheel trailers to be pulled by semis; **Hobart Champion Elite DC welder/AC generator**, 1100 watts, long leads, new; Marquette **welder**; nice Peter Wright 5" by 26" **anvil w/hardys**; other shop supplies and the usual variety of items founds around the farm.

**NOTE: This is a nice sale. Most of the machinery has been shedded. Sale should be over by early afternoon. 30 days for removal. Loader tractor and operator available for the first 2 weeks. For information about the machinery please call the seller.**

**TERMS:** Cash or good check day of sale. Not responsible for accidents. **CLERK:** CAT Clerks, P.O. Box 54, Morganville, Ks. 67468

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# AUCTION

**SATURDAY, JULY 27, 2019 — 10:00 AM**

**Auction will be held at the farm located East of ABILENE, KS on I70 to Enterprise exit 281, then North 5 miles to Hwy. 18, then East 2 miles to Oat Road, then North 1 mile to 3100 Road, then West 3/4 mile to farm.**

**ANTIQUES & COLLECTIBLES**  
Pine unusual 2 door 6' cabinet; pine 6' table; pine cob box; pine 2 door cabinet; 4 pine wash benches; pine wall divider; pine dropleaf table; 3 drawer pine gentleman's chest; pine 34" square kitchen table; pine chest w/desk; many pine stands & shelves; pine medicine cabinets; child's pine step back cupboard; cheese box cabinet; assortment pine boxes; 6-drawer walnut chest; cherry 4-drawer chest; Majestic wood burning cook stove; number 32 Volcano wood burning stove; cedar chest w/drawer; cedar wardrobe; New Home treadle sewing machine; drafting table; foot locker; metal yard chairs; guns inc: Stevens 67 series E 12 ga pump 2 ¾" shell; 1942 Smith Corona A3-03 WWII 3006 w/scope; assortment ammo inc: 12 ga, 9MM Luger, 30-06; assortment quilts, blankets & throws;

Folk Art; Mexican Folk Art; 3 gal blue leaf crock; 8 gal Red Wing crock; A Moll Grocer Co crock jar; crock pitcher; wall clocks; assortment blue granite pieces; Religious statues; model cars; lamps inc: Aladdin; pan holder; kitchen collectibles; spice tins; Hapgood cast iron seat; Kansas posters; basket collection; wood doors & trim; assortment Christmas decorations inc: several Nativity sets; assortment books; yard art dinosaur; large assortment of other collectibles. Kenmore 6 cu chest freezer; assortment vinyl records; stereo, turntables, speakers; assortment kitchen items; aluminum handcap ramp.

**VEHICLES, TRACTORS, MACHINERY & TOOLS**  
IHC Farmall M tractor restored; IHC Farmall H tractor w/loader; 1950 Willys Jeepster 6 cy, 3 speed, 67,516 miles, restored, does not have top; 1965 Ford F100

pickup V8, 3 speed, needs clutch; 1980s GMC 2500 Sierra ¾ ton pickup needs work; 1960 Chevrolet Viking 1 ½ ton truck 6 cy, 4 sp, 2 sp, 13' bed w/hoist; John Deere 55 combine; Twin City MM tractor; JD 24T baler; IHC sickle mower; 2 bottom pull type plow; JD 8' tandem disc; road drag; buzz saw; hyd log splitter; 2 wheel trailer w/ Miller ACDC welder w/gas engine; Miller Econo Twin welder; Tools inc: Predator 4000 watt generator like new; Craftsman upright air compressor; Power Craft stack tool box; Atlas table saw; Atlas metal band saw; press; Enco drill press; bench grinder on stand; roller stands; motor stand; Stihl chain saw; sockets; assortment hand tools; garden tools; aluminum extension ladders; live traps; large assortment other items. 2018 John Deere E100 riding lawn mower; Troy Bilt Bronco year tiller.

**NOTE: This is a large auction. Betsy has collected antiques for years, her mother ran an antique store many years ago. There are many pieces of pine inc. furniture, boxes, benches, stands. There are many collectibles. Ernie ran a welding shop and has a large amount of welding equipment and tools. Check our website for pictures at [www.thummelauction.com](http://www.thummelauction.com).**

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'96 JD 8300 MFD 7960 hrs  
'95 MF 375 MFD, cab, ldr. 2800 hrs  
'67 Farmall 806 cab, ldr

**MISCELLANEOUS**

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'14 Case IH 5130 Combine, 4wd 775 engine hrs, 518 sep. hrs  
'11 Case IH 7088 combine 1643 engine, 1201 sep.  
'11 Case IH 3406 corn head w/ trailer  
'10 Case IH 2020 flexhead 30' w/ air reel  
'05 Killbros 1170 grain cart  
'89 Case IH 1063 corn head  
'09 Case IH RB564, 3,600 bales  
NH 1465, MOCO 9'  
'98 Case IH 8360 MOCO  
'01 NH 1475 MOCO 14'  
'02 NH 1475 MOCO 14' IH 45 FC 18.5'  
'02 Case IH 4300, FC 27' IH 370 14' disk  
'96 Sunflower 1232-29 disk  
'01 Case IH 3950 disk, 33'  
'07 Case IH 340 25' disk  
'05 Case IH 340 disk 28'  
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# The Innovation Kitchen is open at the National Pork Board

The conversation around food is changing, and the National Pork Board is determined to be a part of that conversation. On Monday, National Pork Board and National Pork Producers Council board members gathered in Des Moines, Iowa, at the National Pork Board office to view the newly created innovation kitchen – a place to celebrate pork and strategize new ways to elevate pork’s presence in the global marketplace.

The state-of-the-art kitchen facility and remodeled conference center will serve as a hub of innovative thinking about pork. Since the office was built in the 1970s, pork producers have taken great pride in improving the facility over the years. And this innovation kitchen reflects their commitment to staying on top of the food conversation.

Bill Even, CEO of the National Pork Board, says the Pork Checkoff has two main objectives – to support pork production and to celebrate pork as a food.

“When you look at the facility that the pork producers built here in Des Moines, we have never had anything that would assist us and our chefs in our mission of celebrating pork as a food on campus. We’ve been dependent over the past 30 years on external contractors, vendors and different culinary organizations to do our work around pork as a food,” Even says.

But 18 months ago, the National Pork Board directors decided it was time to show just how devoted the pork industry is to pork as a food and the innovation that needs to happen in the industry.

“It’s really designed to say we’re here to stay,” Even says. “We’re going to continue our work supporting pork production. And we’re going to double down on getting se-



The National Pork Board recently launched its Innovation Kitchen to help position pork in the global marketplace.

rious in positioning and promoting pork as a food.”

It’s important to talk about pork as a food, says Jarrod Sutton, vice president of domestic marketing at the National Pork Board.

“Investing in this state-of-the-art kitchen gives us the ability to not only showcase the product that we promote, but also allow us to invite people in to experience it,” Sutton says. “We have the capabilities now to capture the work that’s happening in the kitchen, the magic that’s happening with our chefs on staff, and celebrate that through digital and social media.”

## Innovation to drive innovation

Not only will the new facility be a hub for innovating new ways to position pork in the marketplace, but it will also allow the National Pork Board to bring more cooking, photography and videography in-house so they can create their own quick how-it’s-made videos as the Pork Checkoff shifts to a digital-first mindset.

“Having the capabilities to film and upload immediately to digital and social media in a time where content is

needed 24/7 is critical,” Sutton says.

They plan to bring in half-carasses and fabricate the pig, showing people where the different cuts come from, and potentially how to do some things differently, he adds.

“Our job is to be out in front of the industry,” Sutton says. “We now have the ability to be able to jump from the kitchen into the boardroom right here in our office. If we need to sit down and think out some strategic plans, we can do that and then get back in the kitchen to cut up some more pork and see how a new product could play.”

Sutton believes the new kitchen will allow them to hammer out solid business plans to take to their downstream channel partners – the food service, restaurant companies and retail companies.

“At the end of the day, with all the challenges that we’re faced with, smart wins,” Sutton says. “We’re critical thinkers at the National Pork Board. And with our chefs on staff that have the ability to think critically, we can now put ideas and plans in front of key account customers with confidence

because we’ve vetted them.”

## The time is right

“If you read the news, there are plenty of things to be concerned about,” Sutton says. “And yet there are also things to celebrate. Pork is the number one consumed protein around the world.”

From a Pork Checkoff standpoint, Sutton says it’s important that producers are continuously reminded of export opportunities and the potential to increase pork consumption in developing economies. As those economies improve, the first thing people do is improve the way they eat. And often times, that starts with protein.

“Look at Latin America and Asia – consumers in those countries really enjoy eating pork. It’s deeply tied to their culture and ethnicity. And as the demographics in the United States change, and with the influence of other cultures, an increased interest in pork is something that we all get to enjoy,” Sutton says. “There’s a great opportunity for pork to fill those needs.”

He believes investing in loyal customers and markets, and partnering with experts is critical to selling more pork.

“Ultimately, that’s how we continue to grow our businesses, putting our chips on those loyal customers and those loyal markets and part-

nering with experts who know how to turn our product into amazing dishes that are culturally relevant, and people can enjoy,” Sutton says.

## Investing in opportunity

The \$750,000 investment by pork producers was designed with long-range durability in mind, Even says. The board didn’t want anything trendy, but rather something simple, straightforward and built to stand the test of time.

“There’s a tremendous amount of energy behind this addition to the National Pork Board office,” Even says. “This is the pork producers’ building. The investments they have made in this property over the years is something they are proud of. When you’re bringing in national dignitaries, foreign visitors, chefs and more, they wanted to make sure they had a fa-

cility they could reflect that pride.”

The National Pork Board has two full-time, world-renowned chefs – marketing managers – on staff. They work closely with food service and retail companies to position pork accordingly to keep strengthening the demand for pork. They also have two channel marketing managers with expertise ranging from retail and food service to the convenience store set, Even adds.

“We’re truly crashing into the ‘now’ with this state-of-the-art facility and the technology that enables us to celebrate pork as a food,” Sutton says. “This is the nucleus of the pork industry right here. We’re excited to be able to celebrate it in the way that we should.”

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# Sorghum Foundation awards annual scholarships

The National Sorghum Foundation recently awarded scholarships to three students for the 2019-2020 school year, totaling \$4,500.

“Since its inception in 2000, the National Sorghum Foundation has provided individual scholarships to 40 outstanding university students,” National Sorghum Foundation chairman Larry Lambricht said, “The three students, which were selected to receive scholarships for the 2019/2020 school year, are recognized for their strong academics, outstanding leadership and service to their universities and communities.”

The 2019 Bruce Maunder Sorghum Leadership Scholarship recipient is Noah Winans, a senior agronomy major at Kansas State University. Growing up down the road from his grandfather’s farm and being engaged in the family’s farming operation from a young age helped Winans discover his passion for the agricultural industry. He plans to attend a graduate degree program to obtain his master’s and doctorate degree in plant breeding and genetics. This scholarship, previously named the Sorghum Challenge Scholarship, was renamed this year to honor the life and legacy of long-time sorghum industry advocate Bruce Maunder, who retired from volunteering at the National Sorghum Producers where he led the sorghum foundation for 20 years and served as research adviser to the industry.

The 2019 Darrell Rose-now Memorial Scholarship is awarded to Allee Koestner, a junior agronomy major at Iowa State University. Growing up on her family’s ranching and farming operations led Koestner toward pursuing a degree in agriculture. Koestner plans to attend a graduate degree program in a plant science-related field after the completion of her bachelor’s degree. This scholarship honors Dr. Rose-now who was a pioneer in hybrid sorghum breeding with

a 40-year career at the Texas A&M Experiment Station.

The 2019 Sorghum Feed and Food Scholarship recipient is Hillary Harris, a sophomore culinary nutrition major at Johnson & Wales University. As an advocate for exercise and nutritious eating, Harris developed a passion for food, cooking and wellness. Harris hopes to work in a test kitchen in the future, developing nutritious meals for all dining experiences while promoting a healthy lifestyle.

“We congratulate each one of these students,” Lambricht said, “and wish them contin-

ued success in their studies and future careers.”

Each scholarship provides students with \$1,500 to assist with education expenses. The Bruce Maunder Sorghum Leadership Scholarship winner, Winans, will also have the opportunity to attend the 2020 National Sorghum Producers annual D.C. Fly-In to learn about agricultural policy and regulatory agencies impacting the U.S. sorghum industry.

For more information about the National Sorghum Foundation and scholarship criteria, visit [www.sorghumgrowers.com/foundation-scholarships/](http://www.sorghumgrowers.com/foundation-scholarships/).

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State Fair – September 3<sup>rd</sup> Edition

Fall Full Of Bullz – Sept. 10<sup>th</sup> Edition

Fall Harvest – October 1<sup>st</sup>, 8<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup>

## DEADLINES:

State Fair – August 28<sup>th</sup>, before 12pm

Fall Full Of Bullz – Sept. 4<sup>th</sup>, before 12pm

Fall Harvest – Sept. 27<sup>th</sup>, Oct. 4<sup>th</sup>, 11<sup>th</sup>, 18<sup>th</sup> before 12pm

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# Dickinson County stockman, farmer is grand marshal for Abilene fair parade



Keith Lauer has been chosen as the grand marshal for the 2019 Central Kansas Free Fair parade in Abilene.

The long-time 4-H member and leader and lifelong resident of Dickinson County was in 4-H as a youth, served as a 4-H community leader and a beef leader, was open class beef assistant superintendent at the fair for twenty years, and was on the fair board from 1989 to 1994, serving as president in '93-94. He also served as a member and chairman of the county Extension board and provided trophies for the 4-H champion steer and heifer for many years.

Born in 1936, his parents, Clarence and Alma Lauer, were faithful fair attendees. Keith started 4-H at the age of eleven, and one of his first projects, a purebred shorthorn heifer, "became my life vocation," he said. Lauer began his shorthorn herd with several breeding heifers. His uncle, Milton Nagely, was also instrumental in Lauer's cattle work. Lauer traveled with Nagely to purebred shows, and because of his influence, got started in registered cattle.

The CKFF was even instrumental in him dating his wife, Nadene. She also was a 4-H exhibitor, and it was at the fair that Lauer screwed up the courage to ask her out. "I stood there shaking," he laughed, referring to their first conversation, "because she was the daughter of the county superintendent of public instruction." They married in 1956 and will celebrate their 63rd anniversary on August 5.

At one point, he and Nadene had 200 head of purebred registered shorthorns, working under the name of Lauer Polled Shorthorns. In 2017, they were honored with the dedication of the shorthorn shows at the National Western Stock Show in Denver. They hosted the World Shorthorn Cattle Tour when it was in the United States in 2004.

The CKFF is special to Lauer. "I've had a lot of fun with the fair," he said. "I love it." He has rarely missed a fair parade, except for a few times when he and Nadene were on a trip.

The couple has a daughter, Rita Yoder, and three grandsons. Rita's years as a 4-H member influenced her decision to become an Extension home economist.

Keith will lead the parade when it goes through Abilene on Thursday, August 1. The parade starts at 4 p.m. at Seventh Street and Buckeye and proceeds south to Third Street and west to Washington Street.

For more information on the fair, visit the website at [www.CKFF.net](http://www.CKFF.net).

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19	791	144.00			
8	844	140.50			
62	897	140.00			

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### WEDNESDAY, AUGUST 7 • 12:30 PM

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100 Ang X str & hfrs	600-800 lbs
60 Ang X Sim str & hfrs	600-800 lbs
40 Ang X str & hfrs	600-700 lbs
41 Ang X str	800-900 lbs
40 Ang X str	600-750 lbs

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# Three ways to use technology to improve breeding efficiency

Many technologies are available to improve reproductive efficiency, a key performance indicator for herd profitability. Yet, only a handful of producers are using them. Are you among those using the tools at your fingertips?

The USDA's National Animal Health Monitoring System data suggests:

- 19.5% of operations take advantage of semen evaluation;
- 18% palpate for pregnancies;
- 14.3% use body condition scores;
- 7.9% use estrous synchronization; and
- 7.6% use artificial insemination (AI).

The list continues. However, the real question is, why is technology adoption so low? The top reasons for not using reproductive technology include lack of time and labor, cost and the technology itself being too difficult/complicated to use. These are valid reasons, but they don't address the underlying issue.

The reality is, reproductive inefficiency accounts for \$600 million to \$1.2 billion in losses each year. Every operation, big or small, contributes to that statistic.

How can you increase reproductive efficiency this breeding season? How can you use technology for increased reproductive performance?

Here are three ways to improve your herd's reproductive efficiency:

1. Detect heat and make smart decisions

"Many technologies on the market today are simple to use and effective," says Ky Pohler, assistant professor of beef cattle production at Texas A&M University. "One example is a breeding indicator, a self-adhesive patch many producers use primarily for heat detection."

Breeding indicators are applied halfway between the hip and tailhead on a cow's back. As estrous activity and mounting occurs, the indicator's surface ink is rubbed off by the friction of mounting to reveal an indicator color. Once a certain amount of color is exposed, the animal is considered in standing heat and ready to breed.

"Some breeding indicators have easy-to-read bull's-eyes on them," says Pohler. "Once the bull's-eye, or the equivalent surface area, is rubbed off, that animal is ready to breed and is up to three times more likely to result in a confirmed pregnancy."

The chance of a successful pregnancy is lower when an indicator isn't fully activated. With that information, you or your AI technician can make smart cow-side decisions, like choosing an inexpensive straw of semen. If an indicator is fully activated, that cow has a higher chance for a successful pregnancy, and you might use more expensive semen or sexed semen. You might even put in an embryo.

2. Diagnose pregnancies

"The majority of beef females in the United States never undergo a pregnancy diagnosis," says Pohler. "Herds that don't use pregnancy diagnosis are taking a gamble. The wait-and-see strategy can be a costly one if a cow isn't pregnant, and is consuming feed and resources for the duration of her thought-to-be pregnancy."

Confirming pregnancy allows you to make an informed decision about a cow's future in the herd. A cow that is confirmed pregnant might move into a group of pregnant cows that are managed differently. A non-pregnant cow detected early in the breeding season might transition to another round of breeding or she may leave the herd altogether.

Breeding indicators can

also be used as a pregnancy diagnosis tool. If a cow is cycling but doesn't come back in heat, which would be visually apparent based on her breeding indicator, then the cow is most likely pregnant.

"The value of a pregnancy diagnosis can't be understated," says Pohler. "It has the power to significantly increase reproductive efficiency."

3. Get management basics right

For reproductive efficiency, you've got to have your basics covered. Using technology is not a replacement for other overlooked management areas. Including technology without addressing management will still cause inefficiency.

"If you're going to use a reproductive technology, but your cows are in poor body condition, you can't overcome that," says Pohler. "If nutrition is bad, no technology will give you the results you desire."

Animal health is another management aspect that needs focus.

"It sounds simple, but vaccination plans, disease management protocols and biosecurity need to be adopted and practiced," says Pohler. "If you don't have these in place, you might end up with only a 50% calf crop due to mid- to late-term abortions or other disease-related issues, a huge loss that could have been avoided."

The bigger reproductive efficiency picture

To improve reproductive efficiency, you've got to think about it more than once or twice a year during breeding and calving seasons.

"Reproductive efficiency improves when you have a bigger-picture focus, preparing animals year-round for breeding, calving, breeding back and repeating the cycle," says Pohler. "Ultimately, you have to find technologies and management practices that work for you."

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17 blk.....788@130.50

4 blk.....804@129.50

134 mix.....815@128.10

15 blk.....844@127.00

103 mix.....914@123.60

6 blk.....904@120.00

5 blk.....996@116.50

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10 blk.....529@155.00

6 red .....584@140.00

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34 blk.....602@151.00

10 blk.....679@150.50

14 blk.....695@149.75

13 bkbwf.....705@149.50

36 mix.....747@147.00

25 blk.....771@142.75

63 mix.....824@138.10

7 mix.....829@136.50

13 blk.....852@134.75

12 blk.....835@134.00

113 mix.....902@132.00

37 mix.....938@129.25

12 mix.....901@128.50

64 mix.....901@128.50

53 mix.....994@128.00

87 bkbwf.....1014@128.00

13 mix.....1032@123.00

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- 230 mix heifers, 750-850 lbs.
- 285 mix hfrs, 775-850 lbs.
- 320 blk & Char hfrs, 800-875 lbs.
- 250 mix steers, 825-950 lbs.
- 285 blk str, 850-925 lbs.

CONSIGNMENTS FOR JULY 31

- 250 mix heifers, 750-825 lbs.
- 355 mix heifers, 750-825 lbs.
- 54 blk & red heifers, 775-825 lbs.
- 200 mix heifers, 775-900 lbs.
- 60 mix str, 800-850 lbs.

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## CLAY CENTER LIVESTOCK SALES INC.

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### Report from July 16, 2019

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## BACK TO REGULAR SALE SCHEDULE!





# Kansas Profile

## By Ron Wilson

*Executive Director of the Huck Boyd Institute*



### Lynn Smith, Pioneer Bluffs

“Meanwhile, back at the ranch...” That line from an old western movie might also describe the work of a non-profit organization which is celebrating the ranching heritage of the Flint Hills region.

Lynn Smith is executive director of Pioneer Bluffs, a non-profit organization dedicated to preserving the ranching heritage of the Flint Hills. She grew up in north-

east Kansas, married a young man from the Flint Hills, and now directs this non-profit organization. The office is located on a homestead which was once part of the historic Rogler Ranch.

In 1859, a young Austrian immigrant named Charles Rogler walked from Iowa to Kansas in search of a new life. He found an attractive home-site in Chase County, with

rich bottomland surrounded by boundless prairie near a substantial limestone bluff.

Here Charles Rogler made his home. He got married and expanded the ranch over time, but died suddenly of pneumonia at age 52 after being caught in a severe March storm.

One son, Henry, graduated from Kansas State Agricultural College in 1898. Henry met and fell in love with a Flint Hills girl named Maud Sauble. Maud agreed to marry Henry, but did so only after she graduated from K-State in 1901.

Henry and Maud started their life together on his family homestead. In honor of their pioneer ancestors and the limestone bluffs nearby, they named it Pioneer Bluffs. Here they built a beautiful home, including what was at that time an innovation: running water. In 1915, they built a huge wooden barn, followed by a combined granary and carriage house in 1916.

This hard-working family believed in education. “All of Maud’s children went to K-State on her egg money,” Lynn Smith said. Son Wayne Rogler returned to the ranch and built it into one of the most well-respected farm and ranch operations in the region. The Rogler library in the K-State Animal Sciences Department student lounge is named in his honor.

After Wayne and his wife passed away, the ranch was sold. The 12-acre parcel containing part of Charles Rogler’s original homestead and the iconic barn and buildings was purchased by a group interested in preserving this legacy. It is now a National Register Historic District. Pioneer Bluffs Foundation operates this property as a non-profit 501(c)3 organization.

Today, Pioneer Bluffs strives to honor the region’s ranching heritage with education and events. For example, Pioneer Bluffs hosts a ranching heritage prairie talk series,

school and youth field trips, and other cultural and educational community events with music, history, and art. It also serves as a wedding or other event rental venue.

K-State’s Chapman Center for Rural Studies has archived historical documents about the Rogler family and Pioneer Bluffs. Pioneer Bluffs also sponsored videos and recorded interviews of ranchers’ recollections.

“No other non-profit organization has a place like this that is telling this story,” Lynn said. The building that was originally the granary and carriage house has been converted into a library and classroom. The big barn has been restored and preserved.

Two large high-tech touchscreen kiosks display information about ranching history and contemporary practices in the Flint Hills. “People will stand there for an hour,” Lynn said. This also allows content to be easily updated so that there is fresh new information for repeat visitors.

The house, barn and buildings are open some weekends and by appointment.

“We want locals to be proud of their heritage and visitors to appreciate what goes into bringing beef to their table,” Lynn said. “We want to educate and tell the human side of Flint Hills ranching. We’re supported by a fabulous team of volunteers who are passionate about what they do.”

Pioneer Bluffs is located one mile north of the rural community of Matfield Green, population 47 people. Now, that’s rural.

For more information, go to [www.pioneerbluffs.org](http://www.pioneerbluffs.org).

“Meanwhile, back at the ranch...” It’s not just a line from an old western movie, it’s a description of the work of Pioneer Bluffs. We salute Lynn Smith and all those who are making a difference by preserving and promoting this history. Just like in an old western, these are good guys.

### As food waste concerns continue to rise, biodiesel plays active role in reduction

It’s no secret: Americans love fried food. But, what happens to the oil after preparing those foods is part of an ever-growing conversation on reducing food waste. Restaurants and consumers alike are working to reduce the amount of food that ends up in landfills, something biodiesel has been winning at for decades.

The USDA, FDA and EPA recently announced April as “Winning on Reducing Food Waste Month” and the National Biodiesel Board sees biodiesel as an active player in reduction.

“Recycling cooking oil for biodiesel production is a great step for any restaurant looking to reduce their food waste,” says Don Scott, director of sustainability for the National Biodiesel Board. “The oil is collected and refined into renewable energy instead of being sent to landfills or being poured down the drain.”

NBB estimates that nearly 2 billion pounds of used cooking oil is diverted from landfills each year. Thanks to robust recycling programs throughout the country, the volume from these programs continues to grow, making recycled cooking oil the second largest oil source for biodiesel.

“When biodiesel first came on the scene, it was common practice for restaurants to pay to have their grease hauled away,” adds Scott. “Today, it’s pretty standard for companies to have the used oil removed at no cost to them due to its value in renewable energy.”

In addition to used cooking oil, biodiesel uses by-products of animal production – animal fats – as a raw material source. In fact, nearly 1.3 billion pounds of animal fats go into biodiesel fuel today.

The rendering process captures that raw material. Without rendering, recycled cooking oil nor animal fats would be available for biodiesel production.

“If you think about it, renderers are the original recyclers

## Cargill and InnovaFeed partner to bring innovative, sustainable feed to animal producers

Cargill and InnovaFeed have entered into a strategic partnership to bring sustainable and innovative feed options to the animal nutrition industry. Through the partnership, Cargill and InnovaFeed will collaborate to jointly market fish feed which includes insect protein, enabling both partners to support the growth of sustainable aquaculture.

“We recognize that the planet has finite resources,” said Pilar Cruz, president of Cargill’s compound feed business. “It is our job to find innovative feed options for our customers that protect the planet and support sustainable protein production.”

InnovaFeed’s circular economy approach brings added sustainability benefits as the company uses co-pro-

ducts from the agriculture production of starch and sugar to feed black soldier fly larvae known as Hermetia illucens. Once the larvae reach a certain stage, protein and oil are extracted from the larvae, to be used in feed for pets, aquaculture species and young animals like broilers and piglets.

“By upcycling local cereal co-products and repurposing insect waste as an organic fertilizer, InnovaFeed’s products truly have a positive environmental impact,” said Clement Ray, chief executive officer, InnovaFeed. “We’re also able to have a positive impact on climate change by saving 25,000 tons of CO2 emissions per year with each 10,000-ton-production unit by feeding insect meal to animals. That is equivalent to removing

14,000 cars off the roads.”

InnovaFeed’s team of more than 60 engineers and technicians have developed an innovative process allowing them to produce high-quality insect meal at an industrial scale. Over the past three years, InnovaFeed has led multiple trials demonstrating that its insect protein can be an effective alternative to fishmeal used in salmon or shrimp feed with equal or improved performance.

“We’ve seen a strong acceptance of our products by consumers looking for natural and sustainable products,” said Maye Walraven, head of business development for InnovaFeed. Insect-fed trout has been commercialized in France since June of last year.

“This partnership will not only enable our salmon and shrimp customers to differentiate their product lines to meet consumer needs, but we’ll also be responsibly managing resources, enabling both companies to support the growth of sustainable aquaculture and make a positive impact at a global scale,” said Adriano Marcon, president of Cargill’s aqua nutrition business.

“We found the ideal partner in InnovaFeed,” added Helene Ziv, director of risk management and sourcing for Cargill’s animal nutrition business. “We have a shared purpose — offering innovative, sustainable solutions to meet the nutritional needs of our growing population and our customers.”

# Tell them you saw it in Grass & Grain!

## Holton Livestock Exchange, Inc.

1/2 mile East of Holton, KS on 16 Highway

**Livestock Auction every Tuesday at 12 NOON**

*Serving the Midwest Livestock Industry for 67 Years!*

\*\*\*\*STARTING TIME: 12:00 NOON\*\*\*\*

**MARKET REPORT FOR TUESDAY, JULY 16, 2019**

**RECEIPTS: 478 CATTLE**

**VIEW FULL RESULTS ON OUR WEBSITE.**

STEERS & BULLS		
7 blk rwf str	452	168.00
16 blk str	585	165.50
7 blk str	532	160.00
10 blk str	658	157.50
4 blk str	576	155.00
8 blk str	631	153.00
4 red str	558	149.00
5 blk str	586	148.00
7 blk str	745	147.00
5 blk str	492	146.50
6 blk str	734	145.00
5 blk bulls	534	144.50
5 blk rwf str	564	140.00
7 blk str	626	139.00
9 blk bwf str	822	138.00
7 blk str	831	137.00
5 blk str	797	134.00

HEIFERS		
10 blk char str	815	132.00
3 blk str	770	129.50
5 blk hfr	450	150.50
2 blk hfr	395	150.00
5 blk hfr	312	149.00
3 blk hfr	451	147.00
5 blk bwf hfr	410	146.50
10 blk hfr	623	141.00
10 blk hfr	571	138.75
6 blk red hfr	518	134.50
5 blk bwf hfr	563	132.50
6 blk hfr	595	128.00
16 blk hfr	770	128.00
11 blk hfr	665	127.50
5 blk hfr	704	127.00
2 blk hfr	832	124.00
3 blk hfr	796	121.00

**Dan Harris, Auctioneer & Owner • 785-364-7137**

**Danny Deters, Corning, Auct. & Field Rep • 785-868-2591**

**Dick Coppinger, Winchester, Field Rep. • 913-774-2415**

**Steve Aeschliman, Sabetha, Field Rep. • 785-284-2417**

**Larry Matzke, Wheaton, Field Rep. • 785-268-0225**

**Craig Wischropp, Horton, Field Rep. • 785-547-5419**

**Barn Phone • 785-364-4114**

**WEBSITE: [www.holtonlivestock.com](http://www.holtonlivestock.com)**

**EMAIL: [dan@holtonlivestock.com](mailto:dan@holtonlivestock.com)**

**View our auctions live at “[Imaauctions.com](http://Imaauctions.com)”**

## Eureka Livestock Sale

**P.O. Box 267 Eureka, KS 67045**

**620-583-5008 Office 620-583-7475**

**Sale Every Thursday at 11:30 a.m. Sharp**

*Like Us On Facebook!*

**On Thursday, July 18 we had 1,057 head of cattle on an active market.**

<b>STEERS</b>	18 rdChr 841@134.00	28 limo 639@133.00
13 bkrd 602@151.50	44 bkbwf 977@133.10	181 bkbwf 798@132.20
26 bkrd 682@145.75	29 rdChr 905@132.75	5 blk 657@131.50
5 blk 671@144.50	42 bkrd 926@131.50	25 Limo 742@129.75
15 bkbwf 794@142.50	53 bkChr 991@128.50	20 blk 772@128.25
8 blk 729@142.00	26 rdChr 959@124.75	13 bkred 683@127.00
7 blk 826@141.50	<b>HEIFERS</b>	81 bkbwf 899@126.50
11 bkrd 803@140.50	9 blk 524@141.00	67 rdChr 833@126.25
54 bkbwf 876@138.60	14 blk 632@137.00	4 blk 690@124.00
13 bkbwf 825@137.75	6 krbf 531@135.00	<b>BULLS</b>
6 bkChr 723@134.50	17 bkChr 661@134.50	4 blk 493@141.00

**Butcher Cows: \$38-\$76, mostly \$57-\$68, steady to \$2 lower.**

**Butcher Bulls: \$82-\$89, light test, steady to \$2 lower.**

**Packer Cows & Bulls steady to \$2 lower but very active.**

<b>BUTCHER COWS</b>	2 blk 1278@65.50
1 blk 1560@76.00	2 blk 1410@64.50
1 Char 1490@75.00	2 blk 1328@63.50
1 blk 1480@74.00	<b>BUTCHER BULLS</b>
1 Brwn 1835@74.00	1 blk 2010@89.00
1 blk 1655@73.00	1 wf 1935@87.50
1 blk 1665@72.00	1 blk 1985@87.00
2 blk 1363@69.00	1 blk 1720@82.00
4 blk 1224@66.00	

**EARLY CONSIGNMENTS FOR JULY 25**

- 55 blk bwf str & hfrs, 500-700 lbs, weaned 25 days & vac.
- 60 blk red str & hfrs, 500-700 lbs, off the cow.
- 40 blk Char str & hfrs, 650-800 lbs, off the cow.
- 550 blk bwf red Char hfrs, 700-900 lbs., off the Grass
- 140 blk bwf red Char hfrs, 700-850 lbs., off the Grass
- 45 blk rbf hfrs, 750-850 lbs., off the Grass.
- 80 bk bwf red Char str, 800-950 lbs., off the Grass

**EARLY CONSIGNMENTS FOR AUGUST 1**

- 105 blk Limo X str & hfrs, 450-650 lbs, weaned 30 days or more.

**EARLY CONSIGNMENTS FOR AUGUST 8**

- 700 mostly blk str & hfrs, 500-850 lbs, Fall calves, half off the cow and half weaned 90 days or more. Several owners.

We appreciate your business!

**Ron Ervin - Owner-Manager**


Home Phone - 620-583-5385

Mobile Cell 620-750-0123

**Austin Evenson- Fieldman**

Mobile Cell 620-750-0222

If you have any cattle to be looked at call Ron or Austin



**Central Livestock**  
811 N. Main St.  
South Hutchinson, Ks

[www.centrallivestockks.com](http://www.centrallivestockks.com)

**Office: 620-662-3371**

**or Matt Hoffman (Owner): 620-727-0913**

**Hay Auction- Every Tuesday at 9:00 a.m.**

**Cattle Auction- Every Tuesday at 10:00 a.m.**

**Hog/Sheep/Goat Auction- Every 3rd Saturday**

**Horse/Tack Auction- Every 1st Saturday**

**Fri., August 2<sup>nd</sup> - Draft Horse & Mule Sale**

**Sat., August 3<sup>rd</sup> - Horse & Tack Sale**

**Tues., August 13<sup>th</sup> - Calf/Yearling Special**

## SPECIAL DRAFT HORSE & MULE SALE

**Central Livestock**  
811 N. Main  
South Hutchinson, KS 67505

**Friday, August 2<sup>nd</sup>, 2019**

**9:00 A.M. – Tack & Equipment**

-----

**5:00 P.M. – Draft & Driving Horses**

**Mules & Donkeys**

*Horse Commission 8% + \$25 Booking Fee*

**Saturday, August 3<sup>rd</sup>, 2019**

Monthly Horse Sales 1st Saturday of Every Month  
Tack at 9:00 a.m. • Horses at 1:00 p.m.

**CALL TODAY TO CONSIGN YOUR HORSES!**

**Randy Smith**      **Earnie Schenker**      **Sale Barn Office**  
620.200.7971      417.309.9352      620.662.3371

**www.CentralLivestockKS.com**

LIKE US ON FACEBOOK - Central Livestock - Horse Sale  
(Send us pictures & videos to advertise in advance)

## EL DORADO LIVESTOCK AUCTION, INC.

**316-320-3212**

**Fax: 316-320-7159**

**2595 SE Highway 54, P.O. Box 622, El Dorado, KS 67042**

**Market Report - Sale Date 7-18-19.**

300-400 lb. steers, \$117-\$167; heifers, \$121-\$147; 400-500 lb. steers, \$139-\$161; heifers, \$140-\$147; 500-600 lb. steers, \$105-\$171.50; heifers, \$120-\$148.50; 600-700 lb. steers, \$125-\$163.50; heifers, \$119-\$144; 700-800 lb. steers, \$119-\$151; heifers, \$116-\$142; 800-900 lb. steers, \$117-\$148; heifers, \$101-\$133; 900-1,000 lb. steers, \$100-\$136.50. **Trend on Calves:** Steady on calves under 600 lbs.; \$3-\$4 higher on calves weighing 600-600 lbs. **Trend on Feeder Cattle:** Steady to \$3 higher on str 750-850 lbs.; all others steady to \$4 lower. **Butcher Cows:** High dressing cows: \$58-\$67; Avg. dressing cows: \$53-\$58; Low dressing cows: \$42-\$50. **Butcher Bulls:** Avg. to high dressing bulls: \$66-\$86. **Trend:** Cows Steady to \$3 lower; Bulls, steady.

**EARLY CONSIGNMENTS FOR THURSDAY, JULY 25: EXPECTING 2,000-2,500 HEAD**

- 46 fall calves, steers & heifers, off cows
- 50 mix steers & heifers
- 400 steers, 800-900 lbs.
- 420 steers, 800-900 lbs.

**We welcome your consignments!**

If you have cattle to consign or would like additional information, please call the office at 316-320-3212

**Check our website & Facebook for updated consignments: [www.eldoradolivestock.com](http://www.eldoradolivestock.com)**

*To stay up to date on our latest announcements you can “Like” us on Facebook*

<b>Chris Locke</b> (316) 320-1005 (H)	<b>Steven Hamlin</b> (602) 402-6008 (H)
(316) 322-0675 (M)	(620) 222-1199 (M)
<b>Larry Womacks, Fieldman</b> (620) 394-3273 (H)	<b>Van Schmidt, Fieldman</b> (620) 367-2331 (H)
(620) 229-0076 (M)	(620) 345-6879 (M)

**Cattle Sale Every Thursday 11:00 AM**



# Pork and beef exports rebound in May; volume and value reach 2019 highs

May exports of U.S. pork and beef were steady with last year's strong volumes and increased year-over-year in value, according to data released by USDA and compiled by the U.S. Meat Export Federation (USMEF).

Pork exports totaled 217,999 metric tons in May, steady with last year's pace, while value increased 1% to \$567.8 million – the highest monthly value total since April 2018. For January through May, pork exports were still 4% below last year in volume (1.035 million mt) and down 10% in value to \$2.57 billion.

Pork export value averaged \$54.83 per head slaughtered in May, the highest monthly average since May 2018 (\$55.05). For January through May, export value averaged \$48.74 per head, down 12% from the same period last year. May exports accounted for 27.3% of total U.S. pork production and 23.2% for muscle cuts only, down from 27.8% and 24%, respectively, a year ago. For January through May, exports accounted for 25.4% of total pork production (down from 27.5%) and 22.1% for muscle cuts (down from 23.7%).

May beef exports were also steady year-over-year in volume (117,541 mt) while export value increased 1% to \$727.6 million – the second-highest on record, trailing only the August 2018 total of \$751.7 million. For January through May, exports were 3% below last year's record pace in volume (530,088 mt) but only slightly lower in value at \$3.3 billion.

Beef export value per head of fed slaughter averaged \$312.85 in May, down slightly

from a year ago. For January through May, beef export value averaged \$309.33 per head, down 3%. May exports accounted for 14.6% of total U.S. beef production and 12% for muscle cuts only, each down slightly from a year ago. For January through May, exports accounted for 14% of total production and 11.3% for muscle cuts – down from 14.6% and 11.9%, respectively, a year ago. (Please note: due to a calculation error, the percentage of beef production exported was incorrectly reported from January 2017 through April 2019. These ratios have now been corrected, and are about 1.1 percentage points higher than originally reported.)

Rebound in Japan and China/Hong Kong offsets slower pork exports to Mexico

After trending lower through the first four months of 2019, May pork exports to leading value market Japan increased 5% from a year ago in volume (36,373 mt) and 3% in value (\$148.6 million, the highest in 18 months.) Stronger May volumes included growth in chilled pork, up 2.5% to 19,795 mt. For January through May, exports to Japan were still 5% behind last year's pace in volume (159,539 mt) and down 7% in value (\$642 million). But chilled exports held close to last year at 87,362 mt, down less than 1% (valued at \$414.9 million, down 2%). Japan's import data shows the biggest decrease from the U.S. is in ground seasoned pork (GSP), where the U.S. faces the full 20% duty and competitors pay 13.3%. Japan's imports of U.S. pork fell by \$76 million

through May, including a \$46 million decrease in GSP.

Despite the continued 50% retaliatory duty on U.S. pork going to China, May also brought an uptick in pork exports to China/Hong Kong, which increased 33% from a year ago in volume to 45,442 mt, while value increased 5% to \$84 million. Through the first five months of 2019, exports to the region still trailed last year by 7% in volume (173,642 mt) and 25% in value (\$326 million).

On May 20, the 20% retaliatory duty on most U.S. pork entering Mexico was removed as the U.S., Mexico and Canada reached an agreement on steel and aluminum tariffs. While the return to duty-free status is expected to fuel a rebound in pork exports to Mexico, it came too late to have much impact on May results as exports fell 26% from a year ago in volume to 52,555 mt and 15% in value to \$98.4 million. For January through May, exports to Mexico were down 19% in volume (284,946 mt) and 27% in value (\$454.9 million).

"May export results for U.S. pork were very encouraging, especially the renewed momentum in Japan and China/Hong Kong," said USMEF president and CEO Dan Halstrom. "When exports to Mexico get back on track and trade talks with Japan and China show progress, this will be a very welcome lift for the U.S. pork industry."

All of U.S. pork and beef's major competitors gained tariff relief in Japan this year through the Comprehensive and Progressive Agreement for Trans-Pacific Partnership

(CPTPP) and the economic partnership agreement between Japan and the European Union, making red meat trade a major focus of the ongoing U.S.-Japan trade agreement negotiations. Access for U.S. agricultural products was also a priority in the high-level U.S.-China trade talks that broke off in early May but which are expected to resume following President Trump's June 29 meeting with Chinese President Xi Jinping.

Other January-May highlights for U.S. pork include:

South America is the leading tonnage growth market for U.S. pork in 2019 as continued growth in Colombia and Chile pushed exports 40% above last year's record pace in volume (71,240 mt) and 37% higher in value (\$171.8 million). Exports to Peru cooled in May but remain significantly higher year-over-year.

Exports to Oceania continue to climb, increasing 45% in volume (52,502 mt) and 30% in value (\$138.7 million) from a year ago. Australia is one of U.S. pork's top-performing markets in 2019, with volume up 45% from last year's record pace to 48,110 mt and value increasing 29% to \$125.4 million. U.S. share of Australia's imports climbed to 52%, compared to 45% last year. Exports to New Zealand were also significantly higher in both volume (4,392 mt, up 43%) and value (\$13.3 million, up 33%).

Also coming off a record year in 2018, exports to Central America climbed 11% in both volume (37,416 mt) and value (\$88.2 million). While exports to leading market Honduras were up slightly

from a year ago, double-digit growth was achieved in Guatemala, Panama, Costa Rica and Nicaragua.

While pork exports to Taiwan slowed in May, January-May volume still increased 60% from a year ago to 9,972 mt while value was up 44% to \$22 million.

Korea, Taiwan lead strong month for beef exports

Beef exports to South Korea remained on a record pace in May, climbing 11% to 23,004 mt and 13% in value to \$165 million. January-May exports to Korea were 11% above last year in volume (101,761 mt) and 15% higher in value (\$743.5 million). With continued growth at retail and foodservice, U.S. share of Korea's chilled beef imports reached a post-BSE high of 61%, up from 57% last year and 52% in 2017. Chilled beef from the U.S. totaled 22,268 mt, up 8% year-over-year, valued at \$224 million, up 12%.

Following a fairly steady first quarter, beef exports to Taiwan strengthened for the second straight month in May at 5,873 mt (up 27% from a year ago), valued at \$52.6 million (up 28%). Through May, exports to Taiwan were 11% above last year's record pace in volume (24,478 mt) and 4% higher in value (\$218.2 million).

Though slightly below last year's level, May export volume to leading market Japan rebounded to 29,749 mt, while value was down 3% to \$190.8 million. Export volume through May was steady with last year's pace at 128,045 mt while value increased 1% to \$828 million. This performance was driven in part by a large increase in beef variety meat exports (mainly tongues and skirts), which jumped 23% in volume (24,135 mt) and 20% in value (\$157.5 million). Despite the tariff disadvantages, U.S. beef's share of Japan's imports has held nearly steady this year at 41%, but with a level playing field there are tremendous opportunities for growth. For example, Japan's imports of Canadian and Mexican beef increased by 76% and 39%, respectively, through May.

"The explosive growth U.S. beef has achieved in Korea and Taiwan is a testament to the quality of the product and the outstanding customer base the U.S. industry has established over the years," Halstrom said. "That same dynamic is present in Japan, on an even larger scale. But for Japan to remain the 'strong growth' column, it is essential that we have market access comparable to our key competitors."

Other January-May highlights for U.S. beef include:

Mexico is a very solid market for U.S. beef in 2019. Al-

though exports through May were 2% below last year's pace at 97,102 mt, value increased 8% to \$462.1 million. This was due to strong growth in muscle cut exports, which were up 7% from a year ago in volume (59,357 mt) and 10% in value (\$361.5 million).

Exports to the Dominican Republic remain on a tremendous roll, soaring 50% above last year's record pace in volume (3,741 mt) and gaining 39% in value to \$30.3 million. U.S. beef continues to capitalize on market access improvements secured in the Dominican Republic-Central America-U.S. Free Trade Agreement (CAFTA-DR), with exports to Central America also increasing 5% from a year ago in volume (5,699 mt) and 10% in value (\$33.8 million). Growth leaders in the region include Costa Rica, Guatemala, Honduras and Nicaragua.

January-May exports to Egypt, the largest destination for U.S. beef livers, were down 7% year-over-year in volume at 28,912 mt, but increased 6% in value to \$34.8 million. Exports strengthened in May, increasing 26% in volume (6,224 mt) and 35% in value (\$7.1 million) year-over-year. This was significant, as changes in Egypt's halal certification process that took effect May 1 are a concern for the U.S. industry. But at least so far, these changes do not appear to be slowing exports.

Retaliatory tariffs in China and other market access challenges limited U.S. beef exports to China/Hong Kong, with January-May volume down one-third to 38,405 mt and value declining by 27% to \$322 million.

Mexico fuels big month for U.S. lamb exports

Recent momentum for U.S. lamb exports has been led by strong variety meat demand in Mexico. Lamb variety meat exports to Mexico set a record in 2018 at more than 10,000 mt and are well ahead of that pace this year. One of the factors driving this success is the growing popularity of lamb neck meat for barbacoa, an item USMEF has aggressively promoted to importers in Mexico. Lamb muscle cut exports to Mexico also climbed significantly in May as combined lamb and lamb variety meat exports reached 1,155 mt, up 41% from a year ago, while value increased 67% to \$1.4 million.

On a global basis, May lamb exports totaled 1,310 mt, up 31% from a year ago, while value increased 30% to \$2.3 million. This pushed January-May exports 51% above last year in volume (6,710 mt) and 26% higher in value (\$11.5 million). For muscle cuts only, January-May lamb exports were up 14% in volume (1,041 mt) and 19% in value (\$6.7 million).

## Grass & Grain Weather Report

### Seven Day Forecast

**WEDNESDAY**  
Sunny  
High: 83 Low: 64

**THURSDAY**  
Mostly Sunny  
High: 87 Low: 68

**FRIDAY**  
Cloudy  
High: 80 Low: 61

**SATURDAY**  
Mostly Cloudy  
High: 91 Low: 70

**SUNDAY**  
Few Showers  
High: 93 Low: 74

**MONDAY**  
Mostly Cloudy  
High: 97 Low: 78

**TUESDAY**  
Partly Cloudy  
High: 93 Low: 74

### In-Depth Local Forecast

Today we will see sunny skies with a high temperature of 83°, humidity of 43%. Light winds. The record high temperature for today is 105° set in 1964. Expect clear skies tonight with an overnight low of 64°. Light winds. The record low for tonight is 58° set in 2003.

Date	Hi/Lo	Normals	Precip
7/12	89/64	91/67	0.00"
7/13	90/67	91/67	0.00"
7/14	92/70	91/67	0.00"
7/15	87/72	91/67	0.00"
7/16	93/69	92/67	0.00"
7/17	100/80	92/67	0.00"
7/18	100/81	92/67	0.00"

Rainfall

Normal rainfall

Departure

Average temp

Average normal

Departure

0.00"

0.92"

-0.92"

82.4°

79.2°

+3.2°

### Today's Local Outlook

Washington  
81/63

Blue Rapids  
83/63

Seneca  
83/61

Clay Center  
83/63

Mahattan  
83/64

Wamego  
83/63

Ogden  
84/63

Junction City  
85/64

Abilene  
84/63

Council Grove  
83/63

### This Week's Sun & Moon Chart

Last	Day	Sunrise	Sunset	Moonrise	Moonset	First
7/24	Wednesday	6:20 a.m.	8:45 p.m.	12:37 a.m.	1:30 p.m.	8/7
	Thursday	6:20 a.m.	8:45 p.m.	1:04 a.m.	2:29 p.m.	
	Friday	6:21 a.m.	8:44 p.m.	1:34 a.m.	3:32 p.m.	
	Saturday	6:22 a.m.	8:43 p.m.	2:09 a.m.	4:36 p.m.	
	Sunday	6:23 a.m.	8:42 p.m.	2:49 a.m.	5:41 p.m.	
	Monday	6:24 a.m.	8:41 p.m.	3:37 a.m.	6:45 p.m.	
	Tuesday	6:25 a.m.	8:40 p.m.	4:35 a.m.	7:45 p.m.	

New

7/31

Full

8/15

### Local UV Index

0-2 3 4 5 6 7 8 9 10 11+

0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure

### Weather History

July 24, 1980 - Claudette, a weak tropical storm, deluged southeastern Texas with torrential rains. The Houston suburb of Alvin received a total of 43 inches, a 24-hour record for the United States.

### Growing Degree Days

Date	Degree Days	Date	Degree Days
7/12	26	7/16	31
7/13	28	7/17	40
7/14	31	7/18	40
7/15	29		

# Sell

Sell Or Buy

# At

By Auction

# St.

STARTING TIME 10:30 AM

# Marys

Tuesdays

We sold 1184 cattle June 16. Steer and heifers sold at steady prices. Feeder steers and heifers sold steady to \$2.00 higher. Cows and bulls were steady.

STEER & BULL CALVES	121 blk/bwf str	881 @ 139.00
2 blk str	448 @ 166.00	
3 blk/red str	455 @ 160.00	
1 blk str	520 @ 160.00	
1 blk str	465 @ 149.00	
6 x-bred str	538 @ 145.00	

STOCKER & FEEDER STEERS	HEIFER CALVES		
21 blk/bwf str	777 @ 146.50	1 blk hfr	360 @ 153.00
20 x-bred str	781 @ 146.50	1 blk hfr	385 @ 144.00
4 mix str	589 @ 145.00	4 blk hfrs	504 @ 144.00
69 blk/bwf str	862 @ 145.00	4 blk/char hfrs	484 @ 136.00
175 blk/bwf str	904 @ 143.75	1 blk hfr	495 @ 136.00
102 blk/bwf str	842 @ 141.25	7 blk hfrs	542 @ 135.00
10 blk str	655 @ 140.25	2 blk/bwf hfrs	548 @ 135.00
5 blk/bwf str	662 @ 140.00	1 char hfr	515 @ 131.00
20 mix str	854 @ 139.50		
111 mix str	928 @ 139.25		

STOCKER & FEEDER HEIFERS	COWS		
77 blk/bwf hfrs	644 @ 148.00	1 blk cow	1690 @ 75.00
19 x-bred hfrs	673 @ 137.50	1 blk cow	1355 @ 72.50
7 blk/bwf hfrs	579 @ 136.00	1 blk cow	1425 @ 70.00
2 blk/red hfrs	693 @ 136.00	1 blk cow	1395 @ 60.00
3 blk hfrs	585 @ 135.50	1 blk cow	1295 @ 58.00
2 blk/red hfrs	565 @ 135.00		
4 blk/bwf hfrs	706 @ 130.50		
12 blk/bwf hfrs	697 @ 125.00		
12 blk hfrs	758 @ 122.50		

BRED COWS & PAIRS	BULLS		
4 blk cows/cvs	@ 1200.00	1 blk bull	2020 @ 89.00
1 blk cow	@ 925.00	1 char bull	1750 @ 85.50
1 bwf cow	@ 750.00	1 blk bull	1925 @ 81.00
			1340 @ 78.00

## WATCH OUR AUCTIONS LIVE ON DVAuctions.com

### CONSIGNMENTS FOR JULY 23:

- 45 Angus str & hfrs, 600-700 lbs., vacc.
- 83 blk heifers, 725-775 lbs., off brome
- 130 blk heifers, 750-800 lbs., off grass
- 65 black steers, 775-800 lbs.
- 61 black crossbred steers, 925-950 lbs.
- 285 blk Char steers, 775-825 lbs., off grass

### CONSIGNMENTS FOR JULY 30:

- 45 blk red steers, 600-750 lbs., vacc.
- 325 blk/Red Angus/Char steers, 825-875 lbs., off grass
- 180 blk Char str, 750-800 lbs., off grass

Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to [www.grassandgrain.com](http://www.grassandgrain.com) & logging onto the online subscription

FOR INFORMATION OR ESTIMATES:

REZAC BARN ST. MARYS, 785-437-2785

DENNIS REZAC ST. MARYS, 785-437-6349

DENNIS' CELL PHONE 785-456-4187

KENNETH REZAC ST. MARYS 785-458-9071

LELAND BAILEY TOPEKA, 785-608-4005

LYNN REZAC ST. MARYS, 785-456-4943

REX ARB MELVERN, 785-224-6765

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St. Marys, Ks.

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Website: [www.rezaclivestock.com](http://www.rezaclivestock.com)

AUCTIONEERS: DENNIS REZAC & REX ARB