

# March 15 last day to complete enrollment for 2021 ARC, PLC programs

Agricultural producers who have not yet enrolled in the Agricultural Risk Coverage (ARC) or Price Loss Coverage (PLC) programs for 2021 must do so by March 15. Producers who have not yet signed a 2021 enrollment contract or who want to make an election change should contact their local USDA Farm Service Agency (FSA) office to make an appointment. Program enrollment for 2021 is required in order to participate in the programs, but elections for the 2021 crop year are optional and otherwise remain the same as elections made for 2020.

"FSA offices have multiple programs competing for the time and attention of our staff. Because of the importance and complexities of the ARC and PLC programs, and to ensure we meet your program delivery expectations, please

do not wait to start the enrollment process," said FSA acting administrator Steve Peterson. "I cannot emphasize enough the need to begin the program election and enrollment process now. This process can be completed when applying for other FSA programs as well."

ARC and PLC provide income support to farmers from substantial drops in crop prices or revenues and are vital economic safety nets for most American farmers.

Although 1,033,310 contracts have been completed to date, this represents less than 59% of the more than 1.7 million contracts anticipated by the Agency. By enrolling soon, producers can beat the rush as the deadline nears.

Producers who do not complete enrollment by close of business local time on Monday, March

15 will not be enrolled in ARC or PLC for the 2021 crop year and will be ineligible to receive a payment should one trigger for an eligible crop.

ARC and PLC contracts can be emailed, faxed or physically signed and mailed back to FSA. Producers with level 2 authentication access can electronically sign contracts. Service Center staff can also work with producers to sign and securely transmit contracts electronically through two commercially available tools: Box and OneSpan. You can learn more about these solutions at farmers.gov/mydocs. Producers may also make arrangements to drop off signed contracts at the FSA county office. Please call ahead

for local mailing or drop off information and options for submitting signed contracts electronically.

Producers are eligible to enroll farms with base acres for the following commodities: barley, canola, large and small chickpeas, corn, crambe, flaxseed, grain sorghum, lentils, mustard seed, oats, peanuts, dry peas, rapeseed, long grain rice, medium- and short-grain rice, safflower seed, seed cotton, sesame, soybeans, sunflower seed and wheat.

### Yield Data and Web-Based Decision Tools Available

FSA recently updated the annual and benchmark yields for ARC/PLC program years 2019, 2020 and 2021. This data is useful to producers in choosing to participate in either ARC

or PLC.

For added assistance with ARC and PLC decisions, USDA partnered with the University of Illinois and Texas A&M University to offer web-based decision tools to assist producers in making informed, educated decisions using crop data specific to their respective farming operations. Tools include:

Gardner-farmdoc Payment Calculator, the University of Illinois tool that offers farmers the ability to run payment estimate modeling for their farms and counties for ARC-County and PLC.

ARC and PLC Decision Tool, the Texas A&M tool that allow producers to analyze payment yield updates and expected payments for 2019 and 2020. Producers who have used the tool in the past should see their username and much of their farm data will already be available in the system.

### Crop Insurance Considerations

Producers are reminded that enrolling in ARC or PLC programs can impact eligibility for some crop insurance products. Producers who elect and enroll in PLC also have the option of purchasing Supplemental Coverage Option (SCO) through their Approved Insurance Provider. Producers of covered commodities who elect ARC are ineligible for SCO on their planted acres.

Unlike SCO, RMA's En-

hanced Coverage Option (ECO) is unaffected by participating in ARC for the same crop, on the same acres. You may elect ECO regardless of your farm program election.

Upland cotton farmers who choose to enroll seed cotton base acres in ARC or PLC are ineligible for the stacked income protection plan (STAX) on their planted cotton acres.

### More Information

For more information on ARC and PLC including web-based decision tools, visit farmers.gov/arc-plc.

All USDA Service Centers are open for business, including those that restrict in-person visits or require appointments. All Service Center visitors wishing to conduct business with NRCS, Farm Service Agency, or any other Service Center agency should call ahead and schedule an appointment. Service Centers that are open for appointments will pre-screen visitors based on health concerns or recent travel, and visitors must adhere to social distancing guidelines. Visitors are also required to wear a face covering during their appointment. Our program delivery staff will continue to work with our producers by phone, email, and using online tools. More information can be found at farmers.gov/coronavirus.

Visit farmers.gov/service-center-locator to find location and contact information for the nearest FSA county office.

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Mr Primo Spice 52H won Kansas reserve grand champion steer at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson. Brig Corwine, Quenemo, owns the March 2020 son of Colburne Primo 5153. Greg Walthall, Windsor, Mo., evaluated the 97 entries.

Photo by Jeff Mafi, American Angus Association

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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

**THE FRIDAY, FEBRUARY 12<sup>TH</sup> SALE WAS CANCELLED DUE TO FRIGID TEMPERATURES.**



**Photography submission contest**  
 Your herd could be showcased in our upcoming 2022 large wall calendar. We are looking for high quality maximum resolution color images suitable for our large calendar. Submitted images will be judged by our impartial panel of judges. Please send your images as an attachment to [manhattancommission@gmail.com](mailto:manhattancommission@gmail.com). If selected, you will be entitled to pure well earned bragging rights.

**EARLY CONSIGNMENTS FOR FEB. 19**

- 35 bwf, few Herf, str & hfrs, 2 rds shots, long weaned, 500-700 lbs.
- 50 choice Angus sired str, few hfrs, weaned, 2 rds shots, 600-800 lbs.
- 90 mostly blk str & hfrs, 1 rd shots, 600-750 lbs.
- 57 choice reputation blk str & hfrs, 3 rds shots, wormed, long weaned, 625-800 lbs.
- 30 Angus & Simm Angus str, long weaned, 2 rds shots, green, 700-800 lbs.
- 43 mix str & hfrs, weaned 6 weeks, 2 rds shots, 550-600 lbs.
- 75 choice reputation Angus str & hfrs, 600-750 lbs.
- 9 gentle Judd Ranch genetics blk replacement quality OCV hfrs, 2 rds shots, poured, pelvic measured, 700-750 lbs.
- 80 blk hfrs grass condition, longtime weaned, shots, 600-650 lbs.
- 128 choice reputation blk str & hfrs, weaned Oct. 25, Spring & Fall shots, 700-850 lbs.
- 90 Angus str & hfrs, 2 rds Fall shots, 600-750 lbs.
- 44 choice reputation Angus str & OCV hfrs, long wean, 2 rds shots, 550-700 lbs.
- 17 blk str, 2 rds shots, long weaned, 650-775 lbs.
- 30 Angus str & hfrs, 2 rds shots, bunk broke, weaned 45 days, 400-450 lbs.
- 43 blk str & hfrs, long weaned, all shots, 600-750 lbs.

**EARLY CONSIGNMENTS FOR FEB. 26**

- 80 choice reputation blk & Red Angus str, green, long weaned, 2 rds shots, 650-750 lbs.
- 50 choice reputation Angus str, 3 rds shots, long weaned, 650-750 lbs.
- 20 choice reputation Angus hfrs, 550-650 lbs.
- 80 blk, few Char str & hfrs, 2 rds shots, bunk broke, weaned Oct. 15, 600-750 lbs.

**SPECIAL STOCK COW AND BRED HEIFER SALE**  
**WED., FEB. 24 • STARTING 11:00 AM**  
**Feb. 17 Stock Cow & Heifer Sale has been moved back 1 week to Feb. 24 due to frigid temperatures.**

**BRED 1ST CALF HEIFERS**

- 14 first calf Mill Creek Genetics Herf hfrs, bred Mill Creek Blk Angus bulls to start calving March 1.
- 31 choice Montana origin bwf 1st calf hfrs bred to LBW Angus bulls to start calving Mar. 1. All Fall shots including a 1 shot Scourguard.
- 14 big fancy blk 1st calf hfrs, bred Balancer for Mar. 1 calving.
- 14 blk Angus Northern origin 1st calf OCV hfrs, bred Harms Plainview Ranch LBW Blk Angus bull to start calving Mar. 1 for 45 day calving period. Up to date on shots, poured Cydectin, Stay Bred shot given.
- 7 choice gentle home raised polled Heref 1st calf hfrs bred polled Heref bull for March & April calves.

**1ST CALF HEIFER PAIRS**

- 22 Angus & Simm Angus 1st calf OCV hfrs w/ Angus sired Dec.-Feb. calves by side. Hfrs on full vacc program, calves Enforce 3 & bulls banded.
- 7 gentle Red Angus & blk Angus 1st calf OCV hfrs w/ 30 day Red & blk Angus calves by side. Hfrs & calves all had shots.
- 10 choice Red Angus Fall calving 1st calf hfrs with big Red Angus sired Sept.-Oct. calves by side, bred back to Blk or Red Angus bull since Nov 25. Hfrs & calves all worked.
- 10 blk Fall calving 1st calf hfrs with big Sept.-Oct. Angus sired calves by side, hfrs running back with Blk or Red Angus bulls since Nov 25. Hfrs & calves all worked.
- 5 Char cross Fall calving 1st calf hfrs with big Sept.-Oct. Angus sired calves by side, hfrs running back with Blk or Red Angus bulls since Nov 25. Hfrs & calves all worked.
- 10 choice Red Angus & Blk Angus 1st calf hfrs with Red & Blk 60 day old calves by side. Hfrs & calves all worked.

**2ND CALF HEIFER PAIRS**

- 2 gentle Red Angus & blk Angus 2nd calf OCV hfrs w/ 45 day Red & blk Angus calves by side. Hfrs & calves all had shots.

**REPLACEMENT HEIFERS**

- 35 choice Red Angus replacement hfrs, trac score checked to be breedable, 800-850 lbs.

**BRED COWS**

- 20 Angus cross cows SS bred Balancer bulls for Mar.-April calving.
- 9 Red Angus cows, 5 yrs, bred to registered Red Angus Son of Redemption to start calving Mar. 10, ScourBos booster 12/22/20, Synathic & Vetrimex wormer October 2020.
- 11 blk Angus Montana origin cows, 3-6 yrs, bred Angus bulls to start calving March 1, all shots and poured.
- 34 blk & Red cows, 8 yrs to BM, bred 4-7 mo.
- 35 blk & Red Angus cows, 4-7 yrs, bred Dale Banks Blk Angus & Mushrush Red Angus bulls to start calving April 1.
- 40 blk & Red Angus cows, 4-6 yrs, bred Blk & Red Angus for Fall calving.
- 22 blk BWF cows, 5 yrs to older, bred Angus & Simm Angus bulls for April-May calving.

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# Fertilizer basics, fertilizing forages, and advanced nutrient management

How do you decide how much fertilizer you need? Farmers are often in the difficult situation of needing expertise in numerous subject areas. Although most agriculture service sales people are very knowledgeable and reputable, it is never a great idea to rely solely on them to decide which and how much seed, fertilizer, herbicide, etc. you need to purchase. Since they do not sell anything, K-State Research and Extension provides unbiased information and can teach you the skills needed to make your own researched and educated decision.

Shannon Blocker, Pottawatomie County Agriculture Extension agent, will be hosting a series of online meetings focused on fertilizer and soil fertility. Shannon has a master's degree in

agronomy-soil fertility and has had practical experience with soil testing and fertilizer recommendations for over 18 years. Each meeting can stand on its own, so producers are encouraged to attend whichever one(s) meets their information needs. Each meeting will be hosted live via Zoom from 7-8 p.m. Please complete the form under "Hot Topics" at [www.pottawatomie.ksu.edu](http://www.pottawatomie.ksu.edu) to request the Zoom meeting link. The meeting recordings will be posted later on our website. Producers who do not have online access but want to participate should contact the Extension Office at 785-457-3319 to make alternative arrangements.

Fertilizer Basics is for producers that have limited to no experience working with fertilizer recommendations. For instance,

have you just followed what your fertilizer dealer or another producer has told you to do? Has it been a long time since you have tried to figure it out on your own? This session will provide you with the knowledge and resources to make fertilizer decisions considering your own specific production and economic goals. It will cover soil testing, importance of pH, philosophy options and understanding fertilizer recommendations, nutrient sources, and calculating fertilizer blends. Fertilizer Basics will be held on Thursday, February 25, 2021, from 7-8 p.m.

Fertilizing Forage will focus on plants grown for grazing, silage, or hay for livestock. Forage species covered will include alfalfa, cool season grass, warm season annuals such

as corn silage, sudangrass, and crabgrass, native hay meadows, and cover crops. They will discuss fertilizer requirements based on harvest method, forage quality impacts, and invasive weed concerns related to soil fertility. Fertilizing Forage will be held on Thursday, March 4, 2021, from 7-8 p.m.

Advanced Nutrient Management is intended for producers that know or recently learned fertilizer basics, but are interested in learning more to fine-tune their operations. Topics covered will include soil sampling strategies such as zone and grid sam-

pling, variable rate lime and fertilizer application, soil chemistry related to fertilizers and nutrient uptake, fertilizer placement, micronutrients, record keeping, etc. Producers who will participate in this session are encouraged to list their questions and priorities on the registration form so Shannon can focus the lesson to fit a one-hour timeframe. If other topics come to mind after registration, please email them to [sblocker@ksu.edu](mailto:sblocker@ksu.edu) or call 785-457-3319. Advanced Nutrient Management will be held on Thursday, March 11, 2021, from 7-8 p.m.

As mentioned, each session will be held on Thursday evening beginning at 7 p.m. You may register at any time and you will receive the Zoom link immediately through email.

K-State Research and Extension is an equal opportunity provider and employer. Kansas State University is committed to making its services, activities and programs accessible to all participants. If you have special requirements due to a physical, vision or hearing disability, please contact Shannon Blocker at 785-457-3319 by February 23, 2021.

## Speaker highlights need for small businesses to plan for transition

In the United States, an estimated 60% of private businesses are owned by baby boomers, those born between 1946 and 1964 – now ages 57 to 75.

According to data from the Exit Planning Institute, approximately 70% of U.S. business owners are expected to leave their business in the next ten years. The net effect is that about \$10 trillion in capital will be changing hands over the next decade.

"The market is going to be challenged to be able to handle this, and so we view that as a buyer's market," said Jack Harwell, a certified exit planning advisor with the Kansas Small Business Development Center.

"Owners who don't prepare their business for sale or transition may be challenged to get what it's worth when they retire."

Harwell was the featured speaker Feb. 5 during K-State Research and Extension's monthly online series, First Friday e-Calls, which helps to nurture small businesses and inspire entrepreneurship in Kansas.

He said the SBDC recently launched a program, called the Kansas Center for Business Tran-

sition, to help small business owners prepare their business for that day when they are ready to step away. Harwell cited data from 2016 indicating there were approximately 30,000 Baby Boomers who own businesses in Kansas.

"It's an existential threat, especially in our rural communities where there are very few businesses to start, and then the prospect of losing even one of them is going to be an impact to the community," he said.

Harwell said the Kansas SBDC currently has five professionals with training in exit planning to help the state's business owners. They launched a website in August, 2020, that they hope will provide guidance for those that want to better understand the steps needed to plan their transition.

Their 'Exit Planning Checklist' includes:

- Build your team.
- Set your personal goals.
- Benchmark your business.
- Estimate the value of your business.

Address the gaps to meeting your goals.

Draft a transition plan. Develop a contingency plan.

"On the website, we are providing everyone with a base understanding of exit planning," Harwell said. "Hopefully we have

built the site so that you could build your own exit plan. But as business owners look at the materials, maybe it's too much to tackle on their own. That's why we're here."

Harwell said it is often difficult for business owners to plan for an exit strategy.

"Business owners are reluctant to ask for help," he said. "Some of them are concerned what people might think if they know that the business owner is considering exiting."

"But many business owners just don't know their options; the resources to plan an exit from the business are just not available to help business owners."

In a newer and related project, Harwell said the SBDC is discussing ways to potentially help connect rural business owners with aspiring entrepreneurs who want to move into their area, capitalizing on what is commonly referred to as 'brain gain' in rural areas.

Harwell's full talk and other First Friday presentations are available online from K-State Research and Extension. Persons interested in exploring options for exit planning are encouraged to contact Harwell at [jharwell1@kstate.edu](mailto:jharwell1@kstate.edu), or visit the website, <https://ksbiztransition.com>.

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\*AUCTION\*

SATURDAY, FEBRUARY 27, 2021 — 9:30 AM

LOCATION: 2337 W Road — SABETHA, KANSAS

Directions: From the Jct. of Old 75 Hwy & 36 Hwy, 1 mi. West to W Rd, 3.5 mi. North. OR from 14th St. & Oregon St. in Sabetha, 1 mi. West, 0.5 mi, South on W Rd.

**HOUSEHOLD:** Packard Baby Grand Piano w/bench, Walnut Dropleaf Dining Room Table w/4 Chairs, Recliner Rocker, 2 - High Back Chairs, Dining Room Table & Chairs, King Size Bed & Dresser, Queen Size Bed & Dresser, 2-Upright Deep Freezers (white), sm. Refrigerator (white), Single Bed Mattress Set, Queen Size Bed w/2 Dressers, Health Mate Redwood Sona-Electric 5'x3', Propane Grill, 12-Stack Chairs, Buffet, Lamps, Mirrors, Pictures, 24 pc. set of China, Leaded Glass, Cut Glass, Tupperware, End Tables, Floor Lamps, Hanging Lamp, Ice Cream Maker, Blender, Silverware, Kitchen Utensils, Towels & Linens, Food Saver Vacuum Seal, Old Records 33 & 35, Luggage, Yeti Cooler, Scuba Diving Suit w/ Hardware, Tasca Microscope, Exercise Bike, Fruit Jars, Real-tree Electric Meat Grinder, Electric Heaters, Metal Filing Cabinets, Office Chair, Mantle Clock, lg. of asst. of DVDs & Cassette Tapes, Winter Coats, Colloidal Silver Distiller, Old Toys-Some Metal, Area Rugs.

**GUNS:** Marlin Model 81 22 LR; Savage Mark 11 22 LR w/Simmons Scope, Mossberg Model 590 12 ga Pump; Browning Medallion Gun Safe - 14.

**TOOLS & MISC.:** Bosch hammer drill, grain tester, grain probe, sewer tap, wire winder, Avery jacks, live trap, lg. amt. of Firewood, school bell, wooden ext. ladder, steel posts, hedge posts, Allens Wood Stove, 3/4" socket set, Dewalt 7" grinder, Dewalt 4.5" grinder, Makita Sawzall, C-clamps, tap & die set, 2-chop saws, drill press, battery charger, Chicago Electric Dual Mig wire welder, Century 295 amp stick welder, cutting torch, high pressure washer, 10" radial arm saw, Wagner paint sprayer, elec. fencers, ATV sprayer, 2-transfer pumps, grease guns, block & tackle, LB White Heater, Delta table saw, 5hp air compressor, Briggs & Stratton 8hp Generator, Makita chain saw - 16" bar (New), Chicago Electric 13hp 5500 watt Generator (New), lg. asst. of misc. Hand Tools, 4-3000 gal poly tanks, 1-950 gal poly tank, 1-550 gal poly tank, 1-1650 gal poly tank, 1- 200 gal poly tank, 1-850 gal poly tank, 1-500 gal poly tank, 2-2000 gal poly tanks, Utility Shed on skids 8'x10',

1-tote of 2020 Non GMO Seed Beans 3782, 1-tote of Cover Crop Seed Rye, 22-5 gal buckets of Liquid Fertilizer 0-6-2, 18.4x34 clamp on duals, 16.9x28 clamp on duals, misc. used tires.

**VEHICLES:** 2008 Ford Taurus Limited 167,500 mi, V6, auto, leather, elec., white; 2007 Chevy Silverado 4x4 127,000 mi, V6, auto, good rubber; 1986 C70 200,000 mi, V8, 5x2 trans, 16' bed & hoist, rollover tarp; 1978 C65 Scottsdale 52,000 mi, auto, V8, 16' bed & hoist, rollover tarp; Kawasaki KLX 140 L Motorcycle; JD 825 Gator 4x4 211 hrs, power steering; Grasshopper 723K 23HP, 797 hrs, 60" deck.

**TRACTORS:** White Field Boss 2-135- 7373 hrs, triple hyd, new back rubber SS 235-22280-285423-415; JD 4000 Diesel power shift, dual hyd, 8550 hrs, radial tires (Good) SS B213P268566R; JD 2030 Diesel WF, 5385 hrs, dual hyd, 3 pt, new rear rubber.

**MACHINERY:** JD 1590 no-till drill w/population monitor & grass seeder, 15' roller crimper-5' offset sections-set up for 1590 drill, JD 8350 drill w/ft. & grass seeder, Krause 2508 12 shank chisel, NH 465 disc mower 9', 18' Int field cultivator, JD 1209 hay conditioner, 48' 8-section harrow hyd wings, 12x6 wagon & hoist w/NH gear, NH 258 rake 5 bar new teeth, 8' box blade, JD 220 centerfold disc, 8' Dozer blade w/White brackets, White 6382 3-btm rollover plow, JD 148 Loader 6' bucket w/pallet forks & bale spear, 16x8 hay trailer JD gear, Willmar 500 dry fert. spreader, 125 gal 3 pt tank, Danuser post hole digger 12" auger, White 5100 planter 8x30, Mayrath 60' 10" swing away auger-Like New, Mayrath 60' 8" auger pto, Mayrath 51' 8" auger pto, 8x16 hay trailer JD gear, JD 210 disc 15', JD RM 4x30 rear cultivator, 2 prong bale carrier, 4-4 tt section packer, 1-5' section packer, 2-7' section packer, homemade header trailer, Grain-O-Vator front discharge 10', Herd broadcast seeder, JD 6' pickup attachment, NH 67 sq. baler, 6x12 box trailer w/hoist, 4 section drag harrow, Winco 2500 watt Generator 540 pto-New, 10' Easy Flow, 2 btm 3 pt plow, 300 gal port. fuel barrel w/elec. pump, 2-125 gal saddle tanks w/40' booms.

**AUCTIONEER'S NOTE:** Order of sale begins with household followed by misc. & machinery. Very nice clean merchandise.

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# Kansas Hay Market Report

For the week ending February 6 hay market prices were steady for all classes of hay. Demand remains strong for alfalfa, as alfalfa hay is getting fed up, and steady for grass hay. Although some folks say that getting to new crop alfalfa may be tight, there is still some hay out there that sellers have been holding on to. According to U.S. Drought Monitor for the week of February 4th, much of the region settled into a cool, dry pattern, following the central Plains snowstorm that peaked on January 25. Further assessment of the that storm led to some additional reductions in drought coverage across the central Plains. In addition, a subsequent weather system clipped eastern Kansas with rain on January 30, helping to further reduce coverage of dryness and moderate drought. Abnormal dryness (D0) increased to 19%, moderate drought (D1) decreased to 23%, severe drought (D2) remained steady at 7%, and extreme drought (D3) remained at 10%. 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). \*\* Prices below reflect the average price. There could be prices higher and lower than those published.

## Southwest Kansas

Dairy alfalfa, steady; grinding alfalfa, ground and

delivered, mixed; movement moderate. Alfalfa: horse, premium small squares 260.00-280.00. Dairy 1.00-1.05/point RFV, Supreme 185-237.00.00, Premium 170.00-195.00, Good 150.00-178.50. Stock or Dry Cow 165.00-175.00. Grinding alfalfa 155.00-170.00, with an instance at 190.00-200.00. Ground and delivered locally to feed lots and dairies, 175.00-195.00 with instances at 215.00-225.00. Grass Hay: small squares none reported, large 4x4 squares 100.00-110.00, large rounds 70.00-80.00; Sudan: none reported. Sorghum: none reported; Corn Stalks: none reported; Wheat straw, small squares 3.50-4.50/bale, large 3x4 squares 80.00-90.00. The week of 1/31-2/6, 8,225T of grinding alfalfa and 2,058T of dairy alfalfa was reported bought/sold.

## South Central Kansas

Dairy alfalfa, alfalfa pellets, grinding alfalfa, ground/delivered steady; movement moderate. Alfalfa: horse, small squares 255.00-275.00. Dairy, 1.00/point RFV, Supreme 185.00-225.00, Premium 170.00-195.00, Good 150.00-178.00. Stock cow, 150.00-160.00. Fair/good grinding alfalfa 145.00-155.00 delivered with instances at 160.00 delivered. Ground and delivered 160.00-170.00 with an instance at 190.00. Alfalfa pellets: Sun cured 15 pct protein 190.00-210.00, 17 pct protein 200.00-210.00, Dehydrated 17 pct 305.00-310.00. Grass Hay: Bluestem, 3x4 and 4x4 squares 100.00-110.00, large rounds 60.00-90.00. Brome: large 4x4 squares 100.00-120.00, large rounds 95.00-100.00. Teff: large 3x4 squares 155.00-165.00, large rounds 120.00-130.00. Sudan: large rounds 80.00-85.00. Corn stalks: large squares, 65.00, large rounds 60.00. Wheat straw: large 4x4 squares, 65.00-75.00. The week of 1/31-2/6, 6,480T of

Grass & Grain, February 16, 2021 Page 15  
grinding alfalfa and 1,632T of dairy alfalfa was reported bought/sold.

## Southeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady, grass hay steady; movement slow to moderate. Alfalfa: horse or goat, 230.00-240.00. Dairy 1.00-1.05/point RFV. Stock cow 150.00-160.00. Fair/Good grinding alfalfa, large rounds 135.00-145.00, or 160.00-170.00 delivered. Ground and delivered, none reported; Grass hay: Bluestem, small squares 120.00-125.00, good 3x3 squares 100.00-125.00, good, 3x4 squares 90.00-120.00, large 4x4 squares 90.00-110.00, large rounds 65.00-75.00. Brome, good, small squares none reported, 3x4 to 4x4 squares 95.00-125.00, large rounds 65.00-80.00. Wheat Straw: 3x4 and 4x4 squares 60.00-80.00. The week of 1/31-2/6, 1,594T of grass hay was reported bought/sold.

## Northwest Kansas

Dairy alfalfa, ground/delivered steady, grinding alfalfa steady; movement slow. Alfalfa: Horse or goat, 220.00-230.00. Dairy, Premium/Supreme 1.00/point RFV. Stock cow, fair/good 145.00-155.00. Fair/good grinding alfalfa, 120.00-140.00. Ground and delivered locally to feedlots and dairies, none reported. Sudan, large rounds 60.00-70.00. Wheat straw, large squares none reported.

## North Central-Northeast Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse, premium small squares, 9.00-10.00/bale. Dairy 1.00-1.05/point RFV, Supreme 185-237.00.00, Premium 170.00-195.00, Good 150.00-178.50. Stock Cow, 150.00-160.00. Fair/good, grinding alfalfa, 115.00-125.00. Ground and delivered 140.00-150.00. Grass hay: Bluestem, small squares 5.50-6.50/bale, 3x4 to 4x4 squares 100.00-105.00, large rounds 60.00-90.00. Brome, small squares 6.50-7.50/bale, 3x4 to 4x4 squares 110.00-120.00, large rounds 75.00-85.00; Sudan, large rounds, 60.00-65.00. Wheat Straw: small squares 5.00-6.00/bale, large 4x4 squares 75.00-85.00, 100.00-110.00 delivered, large rounds 65.00-75.00. The week of 1/31-2/6, 2,463T of grinding alfalfa and 689T of dairy alfalfa was reported bought/sold.

\*Posted by Kim Nettleton, Kansas Department of Agriculture

\*\*Prices are per ton and FOB unless otherwise noted

# Cut flowers and arrangements second topic of webinar series

By Ryan Schaub, Frontier Extension District Horticulture Agent

The Frontier Extension District is putting together a series of Horticulture webinars and the second webinar of the series is on cut flowers and arrangements. It will take place on February 18th, 2021, starting at 7 p.m. If you are interested in registering for the meeting please call Ryan Schaub, Horticulture Agent in the Frontier District-Garnett Office at 785.448.6826 or email him at [reschaub@ksu.edu](mailto:reschaub@ksu.edu)

During this webinar, you will learn how to keep those Valentine's Day flowers looking fresh for a longer period of time, which plants or flowers are best to make your own arrangements and how to design

your own arrangement. All of this from those that have been proudly serving Franklin County, and the surrounding area, since 1936, Turner Flowers!

The meetings in the horticulture webinar series are open and free to the public. These Zoom meetings will consist of a 45-minute presentation with the opportunity to ask the speaker questions at the end. Once again, if you

would like more information or to register, please call the Frontier Extension District-Garnett Office at 785.448.6826 or send an email to [reschaub@ksu.edu](mailto:reschaub@ksu.edu)

Meeting Topic and Dates for the Horticulture Webinar Series:

March 4th Irrigation for homeowners/gardeners - Cathie Lavis, K-State Research and Extension Specialist in Landscape

Management

March 18th Wildlife Control - Drew Ricketts, K-State Research and Extension Specialist Wildlife Specialist

## FARM AUCTION

**SATURDAY, MARCH 6, 2021 — 10:00 AM**  
Held at the farm located from Abilene, KS 8 miles south on Hwy. 15 to Rural Center School, then 3 miles west on 1400 Ave. to Eden Rd., then 3 south & 3/4 west to 523 1100 Ave., or from Elmo, KS, 5 miles north on Hwy. 15 & 3 & 3/4 mile west on 1100 Ave. (In the event of bad weather the sale will be held Friday, March, 12)

COMBINE, TRACTORS, BI-DIRECTIONAL LOADER & SKID STEER (sell around 2:00)  
TWIN SCREWS, SINGLE AXLES & PICKUP TRUCKS, TRAILERS, SIDE BY SIDE (sell around 1:00)  
FARM MACHINERY (sells around noon)  
TOOLS & FARM RELATED ITEMS (sell around 11:00)  
ANTIQUES, COLLECTIBLES & MISC (sell first-10:00)  
FURNITURE & HOUSEHOLD GOODS (after antiques/before noon; may run 2 rings here)

Nice line of machinery, well cared for & always shedded. Please WEAR MASKS & PRACTICE SOCIAL DISTANCING. Sellers & auction workers not responsible for accidents or health problems. LUNCH: New Basil Church Ladies.

CLERK: Shirley Riek, 526 Frederick, Clay Center, KS 67432.

**PAUL LEHMAN & DOROTHY LEHMAN TRUST, SELLER**  
Questions regarding items please call Paul Lehman: 785-479-6262

See Last week's Grass & Grain for Listings & Go to [kretzauctions.com](http://kretzauctions.com) at Global Auction Guide or [kansasauctions.net/kretz](http://kansasauctions.net/kretz) for full listing, picture & more info

Auction conducted by: **Kretz Auction Service**  
Greg Kretz, Salesman & Auctioneer: (785) 630-0701  
Guest Auctioneer: Randy Reynolds (785) 263-5627

## HERINGTON LIVESTOCK COMMISSION CO.

**CATTLE SALE EVERY WEDNESDAY:**  
**11:30 AM**  
**2/10/21 SALE RESULTS**

**NO SALE WAS HELD FEBRUARY 10TH DUE TO WEATHER**

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.

View Our Auction Live at [LMAAUCTIONS.COM](http://LMAAUCTIONS.COM)  
KFRM AM 550, Every Wed., 8:00 a.m. • Barn Phone 785-258-2205

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

Manager: Tracy Ediger, 785-366-6645  
Dave Bures - 402-766-3743 • Bob Kickhaefer, Cell - 785-258-4188  
Tim Wildman, 785-366-6152

## THE CATTLEMAN'S One Stop Shop

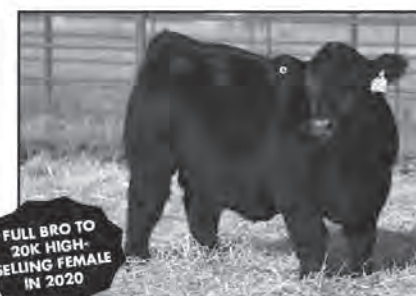
### 44th Annual Sale

Friday, March 5, 2021 • 4 p.m. CST  
Stanley Stout Center, Manhattan, KS

40 FEED-EFFICIENCY TESTED BULLS — 20 Angus, 10 Simmental and 10 Hereford  
36 FEMALES — 15 Fall-Bred Cows and 21 Commercial Heifers  
FEATURED LOT — Choice of Full Sisters to Flush



**KSU Ashland 0150 • 19855103**  
Ranks in the top 1% DOC; 2% WW, YW and REA; 5% SW; 10% SG and SB. A big-time Ashland son. His growth, carcass and dollar indices are at the top end of the breed. He combines that with a striking profile and is powerfully constructed.



**KSU Eagle 55H • 3788462**  
Ranks in the top 1% WW, YW and TI; 3% REA; 10% API; and 15% BF. Powerful and stout, he combines this with breed leading growth and carcass EPDs plus his TI index is at the very top of the breed.



**KSU ENDURE 056 ET • 44173056**  
Ranks in top 1% SCHB; top 2% YW and Marb; top 3% M&G; top 4% WW; and top 10% Milk. Rugged, functional, well-balanced and high performance herd sire prospect. He uniquely combines that with top of the breed figures for growth and carcass traits.



**KSU RITA 0160 • 19863416**  
An opportunity to flush your pick of three unique Ashland full sisters to any bull you choose. Their combination of both exceptional genotypic strength and phenotype is exciting. It's hard to find and create cattle that can combine both things at this level. All three will enter the donor lineup. This is your chance to join in on the front end with us!

Kansas State University  
**K**  
Animal Sciences and Industry

**K-STATE PUREBRED BEEF UNIT**  
2200 Denison Avenue • Manhattan, KS 66502  
[asi.ksu.edu/bullsale](http://asi.ksu.edu/bullsale)  
Shane Werk, KSU PBU Manager - 785.565.1881  
Dave Nichols - 785.317.4994  
For a sale book: [bullsale@ksu.edu](http://bullsale@ksu.edu)

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"I then ran a 1/4 page ad in the Spring Full of Bullz feature section. Once again, the exposure resulted in numerous calls coming from interested individuals outside of the area and several showing requests. This property will be under contract soon."

**RANDY KUFAHL**  
REALTOR®  
FOUNDATION REALTY  
785-556-2414  
[RANDY@FOUNDATIONKS.COM](mailto:RANDY@FOUNDATIONKS.COM)  
YOUR REALTOR® FOR NORTHEAST KANSAS

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1531 Yuma St. • Manhattan, KS 66502

# CLASSIFIEDS

**CLASSIFIED AD DEADLINE IS 10:00 A.M. FRIDAY**

**RATES AND DISCOUNTS**

**CLASSIFICATIONS**

Although complete name, address and phone number need not appear in your ad, we must have this information for our records.  
Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**WRITE YOUR AD HERE**



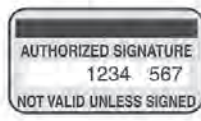
**FIGURE YOUR COST HERE:**

RATE: 65¢ a word.  
Number of words: \_\_\_\_\_ @ 65¢ each  
Cost for one week: \_\_\_\_\_  
Multiply one-week cost times number of weeks you want ad to run.  
Run ad \_\_\_\_\_ consecutive weeks.

CLASSIFICATION: \_\_\_\_\_  
Cost for \_\_\_\_\_ weeks: \_\_\_\_\_  
DISCOUNTS: (For PRE-PAID orders only)  
deduct 10% if ad runs 2 or 3 weeks;  
deduct 25% if ad runs 4 weeks.  
Less discounts: \_\_\_\_\_  
TOTAL: \$ \_\_\_\_\_

PAY WITH (PLEASE CIRCLE ONE):  
CHECK  MASTERCARD  VISA  DISCOVER

Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_  
V-Code \_\_\_\_\_ (required) last 3 digits (see sample: 567) located on the back of your credit card on the signature panel.



Signature: \_\_\_\_\_

- |                              |            |
|------------------------------|------------|
| CATTLE                       | GOAT       |
| SWINE                        | SHEEP      |
| HORSES                       | POULTRY    |
| FERTILIZER                   | TRAILERS   |
| FEED & SEED                  | MACHINERY  |
| AUTOMOTIVE                   | EMPLOYMENT |
| REAL ESTATE                  | ANTIQUES   |
| SERVICES                     | PASTURE    |
| IRRIGATION                   | WANTED     |
| HARVESTING                   | PETS       |
| LIVESTOCK OTHER              |            |
| LIVESTOCK EQUIPMENT          |            |
| BUILDINGS-BUILDING MATERIALS |            |
| BINS - DRYERS - VACS         |            |
| MOBILE HOMES                 |            |
| SPRAY EQUIPMENT              |            |
| BUSINESS OPPORTUNITIES       |            |
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**REMINDERS**

- Please notify us of any errors at once. We cannot be responsible beyond the first insertion.
- NO REFUNDS!
- BY PHONE: Ads not accompanied by payment have \$1.00 billing charge added, and discounts are not available.

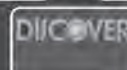
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FAX: 785-539-2679

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25 ANGUS FIRST CALF springer heifers, \$1150/ head. 620-596-2813.

10 HEAD CHAROLAIS Red Angus first calf springer heifers, \$1150/ head. 620-596-2813.

**ANGUS & SIMMENTAL-ANGUS BULLS**



- Priced for the commercial cattleman
- Yearlings & 2-year olds w/ calving ease and growth
- Excellent selection w/ volume discounts
- Performance data available
- Good maternal traits

**HUNINGHAKE ANGUS**  
Frankfort, KS  
Leo Huninghake  
Home: 785-292-4537  
Cell: 785-556-2648

**20th Annual Sale BJ ANGUS GENETICS**



**Thursday, March 11th**  
12:30 PM at the Ranch  
Manhattan, KS  
• (80) 18-month bulls  
• (12) 14-month bulls  
• (40) Reg. Females  
Genomic Enhanced (DNA) EPDs

www.bjangus.com for sale catalog and videos  
John or Bonnie Slocombe  
785-532-9777

**CATTLE**

**Wheatland Farms**  
Yearling Registered Angus Bulls AI Sired,

Larry Shippy  
Hope, Kansas  
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Offering high-quality Charolais Bulls Private Treaty

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For more information or pictures contact:

Nick Hargrave  
785-293-2176  
nahargrave63@gmail.com

**Don Johnson ANGUS**

25th Annual Bull Sale  
Monday, Mar. 8, 2021  
6:30 PM  
Farmers & Ranchers  
Salina, KS

60 Yearling & 18 Month Old Bulls

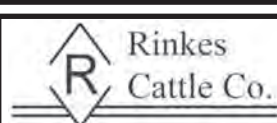
Fed NO Creep  
DNA Enhanced EPDs  
Semen Checked

Sons of Sure Fire, Entice, Capitalist 316, Solution, Growth Fund, Acclaim & Colonel

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50 Registered Angus bred cows, 3-7 yrs old

50 Fall Calvers

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- 90 Angus bulls
- 10 Charolais bulls
- 80 Commercial Fall bred Heifers



**TUESDAY MARCH 16 • 1 pm**  
at the Ranch  
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For Catalog & information:  
Frank: 620-340-2501  
Trey: 620-794-3407  
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**33rd Annual LYONS RANCH SALE**

120 REG. ANGUS BULLS  
18 months old,  
DNA enhanced EPDs,  
semen checked,  
fully guaranteed



**MONDAY, MARCH 1st**  
12:30 P.M. at the ranch  
Manhattan, Kansas

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Or Call:

Karl & Amy Langvardt  
Jan & Frank Lyons  
785-499-2945  
785-499-2944

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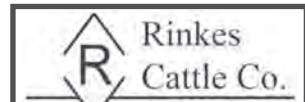
**CATTLE**

**POLLED HEREFORD** calving-ease bulls. Five Feb/March yearlings, half-brothers. \$1900 each. Will keep until 1 April. Free delivery. Kanza Cattle, Chapman. 785-313-6565.

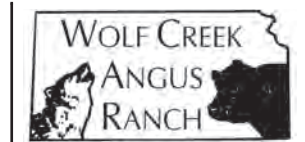
**POLLED SHORTHORN** bulls, finest bulls ever raised here. Great selection. Lauer Short-horns, Abilene. 785-479-2288, 785-200-4042.



**ANGUS BULLS**  
Calving Ease  
Virgin 2 year old bulls  
BRIAN KOSTER  
TESCOTT, KS  
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For Sale Private Treaty:  
**REGISTERED ANGUS BULLS**  
150K enhanced EPDs  
Performance Tested,  
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**58 ANGUS BULLS**  
For Sale by Private Treaty

- 2 year olds & Yearlings
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- Performance Tested
- Fertility Tested
- Fully Guaranteed
- Free Board until June 1
- Free Delivery in KS & NE.
- Volume Discounts

See Performance Data & Price List at:  
www.WolfCreekAngus.com  
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785-698-2225

**CATTLE**

**SIMMENTAL BULLS AND** heifers for sale. Show heifers, broke to lead. Ames Simmental, Wymore, Nebraska. 402-645-3544, 402-520-2422.



**10th Annual Production Sale**  
Sat. March 13, 2021  
Baldwin City, KS • 5:30 P.M.  
• 65+ 18 mo. & Yearling Registered Angus Bulls  
• 15 Reg. Females  
Jason: 785-979-2183  
Office: 785-594-3125  
www.maywayfarms.com  
Call / Email for Catalog



Yearling Registered Angus bulls, AI sired, performance tested, carcass ultrasound, genomic enhanced EPD's, semen checked & guaranteed.  
**Lindsborg, KS**  
785-227-5414



**ANGUS BULLS**  
Yearling to 2 year olds  
Performance Data Available  
Good Maternal Traits  
Fertility Tested  
Continuously raising Angus cattle for 71 years.

Vering Angus  
Greg Vering  
Marysville, KS  
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**LAFLIN ANGUS PRODUCTION SALE**

**Saturday, March 6 High Noon**  
at the Ranch, Olsburg, KS  
Selling  
• 100 BULLS  
• Powerful strong beef bulls  
• All performance information, EPDs and ultra sound carcass data  
• 40 FEMALES  
• Show heifer prospects  
• Bred heifers  
• Fall cows and calves  
• Donor cows  
Celebrating 120 years of Registered Angus cattle  
**Laflin Ranch**  
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**CATTLE**

**HEREFORD BULLS**



Good bulls with balanced EPD's, practical development, good disposition & eye appeal.

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Falun, KS  
GLENN CHUCK  
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18-24 month old bulls available, easy fleshing, maternal focused, calving ease, good disposition.

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18 to 24 Months Old Also Yearlings

- Good maternal traits
- Gentle disposition
- Calving ease
- Priced to sell

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H: 785-293-4444



**ANNUAL ANGUS PRODUCTION SALE**

March 10th, 1:00 pm at the Ranch Headquarters 524 17th Rd • Haddam, KS

50 head of Yearling & 2-Year Old Angus and SimmAngus bulls

12 Commercial 3 year old pairs  
25 open Commercial Angus Heifers

**Angus Sires:**  
Baldrige Blackbelt B812  
Baldrige 38 Special  
Baldrige Captain C013  
Baldrige Titan  
Poss Achievement

**Simmental Sires:**  
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HPF Optimizer A512

Buy Value, Not Hype... Buy Flat Iron Genetics!

Heath Allen 785.556.8982  
Bob Allen 785.556.8980  
www.FLATIRONANGUS.com



**8th Annual Private Treaty Sale**  
Saturday, February 20th, 2021

at the farm  
4811 US Hwy 77 • Wymore, NE 68466

**Bids open at 11:00 a.m.**  
Customer appreciation meal at Noon  
**Bids end at 1:00 p.m.**

**Bulls Open Heifers**  
**Show Heifers\* I pair w/ hfr calf**  
\*broke to lead

Consignor Floyd Simmentals: 785-747-8888

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We have a greater selection of AI-sired bulls than ever before.  
Same Great Cows Now Offering... SimAngus & Angus Bulls

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Semen tested, ready to go!

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Private treaty sales Yearlings

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**CATTLE**

**JENSEN BROS.**  
Hereford Bull Sale



Thurs., March 4, 2021  
1 PM at the Ranch

Bulls available for viewing  
at ranch from now til Sale  
Day

Unable to make sale,  
online bidding at  
DVAuction.com

View videos and catalog on  
dvauction.com website

Selling 80 Bulls 12-18  
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## Applications being accepted for Valent, ASA Ag Voices of the Future Program for college students

The American Soybean Association (ASA) is now accepting applications for the Valent Ag Voices of the Future program, which will be held July 19-22, 2021, in conjunction with the summer ASA Board meeting and Soy Issues Forum in Washington, D.C. The Ag Voices of the Future program is for students interested in improving their understanding of major agricultural policy issues, the importance of advocacy and careers that can impact agricultural policy. Class size is limited and students must be at least 18 years old to apply.

**Bonus Opportunity through Agriculture Future of America**  
Through a partnership ASA and Valent have with collegiate organization Agriculture Future of America (AFA), two students from the 2021 Ag Voices of the Future program will also have the opportunity to win the following:

- \$1,600 academic scholarship
- Complimentary registration (includes hotel stay) for the Agriculture Future of America (AFA) Leaders Conference in Nov., 2021, in Kansas City, Missouri.
- Up to \$500 for reimbursement of travel expenses to the AFA Leaders Conference

### Application Process

To apply for the ASA and Valent Ag Voices of the Future program, and be considered for a scholarship to the AFA Leaders Conference, students should visit the Ag Voices of the Future webpage of the ASA website, click on the green "Apply Now" button, and submit their online application by March 10. To make sure students are considered for the Ag Voices of the Future program, they should check the box that reads, "I have an interest in agriculture policy and would like to be considered for the ASA and Valent Ag Voices of the Future Program (July 19-21, in Washington, D.C.), as well as receiving an AFA Leader and Academic Scholarship." If a student has already applied for the AFA Leaders Conference, they can still modify their application to include checking the box for the Ag Voices of the Future program.

## Researcher receives grant to sniff out invasive pests and species in agriculture

Over the last few decades, detection dogs have been trained to sniff out a myriad of harmful elements, from criminals and drugs to explosives and diseases. Their ability to accurately find potentially dangerous people, narcotics and incendiary devices and detect potentially life-threatening illnesses has helped make the world a much safer place while saving thousands of lives.

Nathan Hall, an assistant professor of companion animal science in the Department of Animal & Food Sciences at Texas Tech University and the director of the Canine Olfaction Research and Education Laboratory, is hoping detection dogs can have the same accuracy in finding agricultural pests and plant pathogens as they have finding narcotics, explosives and diseases.

Hall, along with College of Agricultural Sciences & Natural Resources postdoctoral research fellow Edgar Aviles-Rosa and Virginia Tech researchers Erica Feuerbacher and Mizuho Nita, will test the capacity and capability of detection canines as an early detection tool against invasive species and diseases.

"This project will allow us to investigate the fundamental capability of the canine nose to identify and detect agricultural pests and diseases, which cost multi-millions of dollars in damage annually," Hall said. "While exploring the sensitivity and resolution of the dog's nose, we also will evaluate the capacity of already scent-trained dogs in sport scent work through the National Association of Canine Scent Work (NACSW) across the U.S. as a means to support farmers with an early detection tool for agricultural diseases."

Their research is being bolstered by a \$475,000 grant from the Agriculture and Food Research Initiative of the United States Department of Agriculture (USDA) National Institute of Food and Agriculture's Cooperative State Research Education and Extension Service.

While West Texas is known for its cotton production, the wine grape industry continues to grow in the region and it is an important industry throughout the U.S. Statistics from the National Association of American Wineries shows U.S. grape production is valued at more than \$6.5 billion

However, the sustainability and profitability of vineyards depends on their ability to detect and eliminate diseases and pests that attack the grape plant, such as powdery mildew and the spotted lanternfly. Together, estimates show those invasive species cause more than \$300 million in annual losses for the wine grape industry.

Hall, however, believes detection dogs have the ability with their olfactory sensitivity to detect these threats and hopes that canine detection technology can be easily deployable in the agricultural industry and be cost-effective at the same time.

Early detection would not only limit the impact of these threats to agriculture but also help reduce the use of pesticides. Currently, efforts to detect and eradicate powdery mildew and the spotted lanternfly are neither practical nor cost-effective. However, a developed canine detection program in rural communities, where canines are readily available and underutilized, could be the answer.

Utilizing equipment and methods already in place at the Canine Olfaction Lab, Hall hopes to be able to train dogs to detect powdery mildew and spotted lanternfly eggs in a short period of time. His theory is based on past research that show that canines can be trained to detect asymptomatic plants infected with laurel wilt disease and citrus greening and a variety of insects, as well as the ability canines have to discriminate between various scents.

The canines will first show the ability to detect powdery mildew and spotted lanternfly eggs under controlled conditions using precise odor delivery from automated olfactometers. Hall and his team will then measure the dogs' detection sensitivity limits to estimate the earliest phase of powdery mildew disease dogs can detect, and the sensitivity limits dogs have for spotted lanternfly egg masses. This will be used to assess the detection capabilities of the dog.

In a second phase, partnering with sport trained scent-work dogs, Hall will evaluate the capacity for dog teams across the country to participate.

Hall estimates the dogs will have a success rate of around 85% and will receive training to alert to the training odor when detected. Once the dogs demonstrate the ability to effectively detect the odors in the lab, they will be taken into the field to test the ability to do the same on live wine grapevines and leaves.

If dogs are able to detect these threats on the field, Aviles-Rosa believes this research will have a significant impact in agriculture as this research can be extrapolated to other crops and diseases. This research could prove that canines can be more valuable than previously thought, which could be a great asset to U.S. agriculture.

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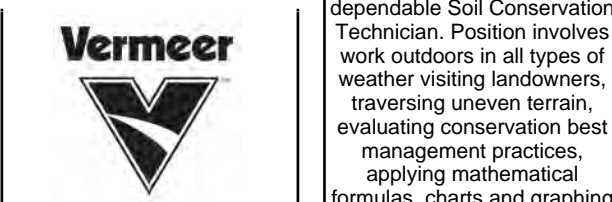
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## Sedgwick County Extension to host popular Design and Grow gardening workshops virtually in 2021

Interest in gardening has spiked over the past year due to the pandemic, leading to seeds and plants selling out across the country. The increase in new gardeners has emphasized the need for high quality local gardening education to help increase productivity and beauty of the new plantings. This year's Design & Grow Gardening workshops will help both new and experienced gardeners learn new skills and gain inspiration for the coming season.

The workshops will be held virtually over two half-days in March. The first part of the workshop, emphasizing "Food for All," will be held on Saturday, March 6, from 9:00 a.m. to 12:00 p.m. This workshop will focus on guiding gardeners with tips on growing food for humans and wildlife. Topics include:

- Easy Grow Vegetable Garden - Tips for vegetable gardening made easy with no-till methods!
- Seed Starting - Advice and tips for starting seeds indoors.
- Landscaping for Wildlife: Take a Walk on the Wild Side - How to create a bird and wildlife-friendly yard.

The second workshop, titled "Beauty for All," is scheduled for Saturday, March 27, also from 9:00 a.m. to 12:00 p.m. "Beauty for All" will focus on tips and information for enhancing the beauty of your landscape. Topics for this workshop include:

- Maximizing Annual Flower Beauty - Find out about the newest annual flower varieties available, and how to grow them successfully.
- Color Year 'Round with Perennials - Enjoy a colorful landscape throughout the year by learning how to create a color succession for your garden.
- Edible Landscaping - Great ideas for plants and planting schemes that will give you both a beautiful and fruitful landscape.

Each half day costs \$5 and requires separate pre-registration to attend. Register online at:

- March 6 - Design and Grow "Food for All"
- March 27 - Design and Grow "Beauty for All"

For more information, contact Rebecca McMahon at 316-660-0142, or [rmcmahon@ksu.edu](mailto:rmcmahon@ksu.edu)

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Position is responsible for regular greasing for bearings, repairs and maintenance of belts, motors, pellet machine, grain elevator legs and air compressor. Repair experience required with pay based on experience. Company provides paid employee health coverage, retirement program, paid holidays and paid vacation after one year.

**Contact Rod, 785-632-2141.**

**SOIL CONSERVATION TECHNICIAN:**  
Greenwood County Conservation District is seeking a highly motivated and dependable Soil Conservation Technician. Position involves work outdoors in all types of weather visiting landowners, traversing uneven terrain, evaluating conservation best management practices, applying mathematical formulas, charts and graphing to create designs and conservation plans, overseeing the construction, and checkout of projects. Use of ATV, GPS, and surveying equipment are a few tools that will be used during job.

**MINIMUM QUALIFICATIONS:** High school diploma or GED. **Requirements:** background in conservation or agriculture (Two year degree with agriculture classes would substitute for background in conservation or agriculture), ability to communicate effectively and work well with people, carrying out office activities and functions related to position such as proficiency in Microsoft Office software, utilizing various web-based software applications, and automated forms. Current valid Kansas state driver's license, and pass a security background investigation, as required by the U.S. Dept. of Agriculture. Position is funded by the Kansas Dept. of Ag, Division of Conservation.

**To obtain information on the application process contact** Keila Sherman at the Greenwood County Conservation District, 1819 E River St., Eureka, KS 67045, 620-583-5544 x 3. Applications accepted until position is filled. Salary \$34,647 plus benefits. EOE

### EMPLOYMENT

**The Clay County Conservation District is accepting applications for a full time District Manager.**

Qualifications include a high school diploma or GED, computer skills, and the ability to communicate effectively. Knowledge of agriculture and natural resources is helpful.

Duties include administration of cost share and educational programs, and general office and financial management. Some outdoor field work may be required.

Wages are based on ability and experience. Benefits include KPERs, annual leave and sick leave.

**Application forms are available at the Clay County Conservation District, 921 W Crawford Street, Clay Center, KS, or by email at hayley.whitehair@ks.nacdn.net.**

**Applications will be accepted through February 25th, 2021.**

*The Clay County Conservation District is an equal opportunity employer.*

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# Regional hay issues due to western drought

**By Derrell Peel, Oklahoma State University Extension Service**  
Recent USDA reports provide a picture of the hay situation across the United States. Dec. 1 hay stocks were down a scant 0.6% year over year for the entire United States. Table 1 shows the top ten states for hay stocks, as well as 2020 all hay, alfalfa hay and other production.

Among the top ten states for hay stocks, Texas was up 14.3% year over year along with Kentucky, up 27.5% and Tennessee up 1.0% compared to the previous year. Nebraska had an equal level of hay stocks on Dec. 1. The other six states had year-over-year reductions in end-of-year hay stocks. Missouri was down 13.0%; North

Dakota, down 11.9%; South Dakota, down 7.2%; Montana, down 5.9%; Kansas, down 5.7%; and Oklahoma, down 2.4%.

Total 2020 hay production was down 1.6% nationwide, with alfalfa hay production down 3.3% year over year and other hay production down just 0.3% compared to 2019. All hay production in Kentucky was up 22.7% year over year, led by a 24.2% increase in other hay production. Texas had a 4.9% year-over-year increase in both all hay and other hay production. Nebraska had a 4.7% increase in all hay year over year, the result of a 9.5% decrease in alfalfa production and a 25.3% increase in other hay production.

Drought persisted

across much of the West in 2020 and has extended into much of the Great Plains at the current time. Several states reveal the effects of the drought on hay production and supplies, and the challenges for cattle producers in those regions.

Colorado had Dec. 1 hay stocks down 15.0% year over year, with 2020 alfalfa hay production down 11.9% and other hay production down 32.1%. New Mexico had Dec. 1 hay stocks down 36.4% year over year and the lowest end-of-year hay stocks for the state in data back to 1973. New Mexico alfalfa hay production was down 12.1% year over year, and other hay production was down 21.8% in 2020 compared to the previous year.

While overall U.S. hay supplies appear to be adequate, it is clear that some drought regions are experiencing severe chal-

lenges to get through the winter. The 16 western and plains states (not including Texas) had Dec. 1 hay stocks down 5.8% year

over year. Texas has some drought regions; however, overall hay stocks in the state are up.

**Table 1: U.S. and top 10 states hay stocks and production, 2020**

	Dec. 1 stocks		All hay production		Alfalfa hay production		Other hay production	
	State	1,000 tons	State	1,000 tons	State	1,000 tons	State	1,000 tons
1	TX	6,400	TX	9,204	ID	4,545	TX	9,065
2	MO	6,000	MO	6,437	MT	4,180	MO	5,843
3	SD	5,800	NE	6,370	CA	3,420	KY	4,920
4	KS	5,000	MT	5,908	NE	3,268	OK	4,680
5	MT	4,800	KS	5,893	SD	3,240	TN	4,066
6	NE	4,200	KY	5,428	IA	2,905	KS	3,895
7	OK	4,100	SD	5,365	MN	2,664	NE	3,102
8	KY	3,825	OK	5,364	CO	2,380	AR	2,667
9	ND	3,700	ID	5,270	AZ	2,210	VA	2,585
10	TN	2,930	CA	4,610	ND	2,196	AL	2,325
Top 10		46,755		60,249		31,008		43,148
U.S.	2020	84,020		126,812		53,076		73,745
	2019	84,488		128,864		54,875		73,989
5-yr. avg.	14-18	89,272		132,063		57,494		74,568



These junior Angus members won top honors in the senior showmanship division at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson. Pictured from left are Eva Hinrichsen, Westmoreland, champion; Greta Rosenhagen, Kansas Angus ambassador, presenting; and Grace Shive, Mount Hope, reserve champion.

Photo by Jeff Mafi, American Angus Association

## Heck Land Co. announces partnership, adds residential agent

Heck Land Co., a north-east Kansas rural property brokerage, recently announced that Brian Pine, an agent with Heck Land since 2018, has joined founder Kelvin Heck as a partner in the business.

Heck Land Co. also announced the addition of Dana Baker as a rural residential agent.

These structural changes complement the skills Heck Land Co. already

has on hand, and gives the complete spectrum of brokerage expertise to serve its clients well into the future.

"These team additions mean Heck Land is going to be part of this community in the state of Kansas for a long time," Heck said. "It provides a lot of assurance to past, current, and future clients that we're going to be around to serve them."

With extensive experience in production agriculture, Kelvin and Brian are experts on farm and ranch sales, recreational land, lease evaluations, water rights, property valuation, and commodities pricing. The addition of Dana brings further expertise for rural land sales that include residential dwellings.

Of Dana joining the team Brian Pine stated, "A more robust rural residential skill set in our office is a huge advantage to Heck Land as a company and the

clients we serve."

Dana grew up in small towns and assisted her dad in the family business. She lives in Baldwin with her husband of 20 years and their three girls.

"Having grown up in a small town and live in a small town now, I know and appreciate rural communities," Dana said. "I'm thrilled to be able to help people achieve their dreams of living in a rural setting."

Kelvin Heck says even though Brian has functionally been a partner since he joined the company, making it official means a stronger team.

"The partnership that's always been there is even stronger now," Heck said. "We each know everything about our clients and the company so we can cover it all."

Heck also shared that Diane Haist joined the team as senior marketing manager on a part-time basis in February 2019.

Together, the team works with agricultural

land, recreational land, rural residential, and development buyers and sellers. They handle transactions all across the state of Kansas including within the Kaw River bottom from Manhattan to Kansas City, as well as in Franklin, Douglas, Jefferson, Leavenworth, Johnson, Shawnee, and Riley counties.

Heck says they are proud to provide services for clients who often have unique needs or circumstances different from typical real estate transactions.

"There's a difference between the way people do business in rural communities. There's more trust, and fewer contingencies," Heck said. "In rural business transactions, there's still a lot of handshake, word is your bond business, and that's important to us because that's how we do business."

More information and rural property listings from Heck Land Co. can be found at <https://heckland-co.com/>.

### Marysville Livestock Sales

**Every Thursday at 12 Noon**  
Bill Keesecker, Manager • 785-562-1015  
1180 US Hwy. 77, P. O. Box 67, Marysville, KS 66508

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*Due to Extremely Cold Temperatures, we had a light run of cattle for our Feb. 11 sale. SEVERAL LOADS EXPECTED NEXT WEEK AS THE WEATHER IMPROVES!*

*Due to State & County Mandates, MASKS & Social Distancing are required & NO CHILDREN in the Barn. Thank you.*

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## BID NOW

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**TIMED ONLINE • NO-RESERVE HARVESTER AUCTION**  
BIDDING WILL BEGIN CLOSING: **WED., MARCH 3, STARTING AT 10:00 A.M.**  
*Items are located at the farm near Minneapolis, Kansas*  
**CLINE HARVESTING**

Equipment Questions: Kevin Cline (785) 407-7722  
Auction Managers: Zach Hiner (260) 437-2771, Luke Cline (785) 488-8156, Cody Holst (217) 242-8747

**INSPECTION: SAT., FEBRUARY 27 • 9 AM - 4 PM**

**HIGHLIGHTS INCLUDE:** 1992 John Deere 4960 MFWD tractor, showing 997 hours; 1992 John Deere 4960 MFWD tractor, showing 2,877 hours; 1994 AGCO Allis 9670 MFWD tractor, 6,793 hours; 2015 Gleaner S78 Super Series 4WD combine, 3,491 eng./2,346 sep. hours; 2014 Gleaner S78 Super Series 4WD combine, showing 1,599 eng./1,015 sep. hours; 2014 Gleaner S78 Super Series 4WD combine, 3,323 eng./2,248 sep. hours; 2018 MacDon FD140 40' flex draper head; 2015 Gleaner 8200 30' flex draper head; 2014 MacDon FD75-S 40' flex draper head; 2014 MacDon FD75 35' flex draper head; 2013 MacDon FD75-D 40' flex draper head; Unverferth Road Runner 548 50' head cart; BBK 40' head cart; 40' head cart; 36' gooseneck head cart; Brent 1084 Avalanche grain cart; A&L 850S grain cart; 2007 Kenworth W900 semi, Cummins ISX eng., 13-spd. trans., 1,157,670 miles; 2005 Kenworth W900 semi, Cummins ISX eng., 13-spd. trans., 1,015,339 miles; 2005 Kenworth W900 semi, Cummins ISX eng., 10-spd. auto shift trans., 1,122,001 miles; 2007 Freightliner Columbia semi, Mercedes eng., SmartShift auto trans., 1,212,174 miles; 2006 Freightliner Columbia semi, Mercedes eng., SmartShift auto trans., 1,141,807 miles; 2005 Freightliner Century Class semi, Detroit eng., 10-spd. trans., 929,547 miles; 2006 International 9400i semi, Cummins ISX eng., 13-spd. trans., 1,099,864 miles; 1999 International 9400i semi, Cat 3406 eng., 18-spd. trans., 1,013,132 miles; 2000 Freightliner Century Class semi, Mercedes eng., SmartShift auto trans., 422,570 miles; 2006 International 8600 single axle semi, Cummins ISX eng., 10-spd. trans., 745,327 miles; 2001 Freightliner FL170 service truck, Cat 3126 eng., 9-spd. trans., IMT crane, fuel tank, air compressor, torch, 388,852 miles; 2010 Wilson 41' hopper bottom trailer; 2010 Timpette 40' hopper bottom trailer; 2001 Timpette 40' hopper bottom trailer; 2001 Wilson 41' hopper bottom trailer; 1989 Timpette 40' hopper bottom trailer; Merritt 40' hopper bottom trailer; 2012 Neville Built 25' combine trailer; Kent 25' combine trailer; Trailer Blazer 48' drop deck trailer; 2016 Load Max 16' gooseneck trailer, 350 gal. fuel tank, toolboxes; 2014 Load Max 16' gooseneck trailer, 500 gal. fuel tank, toolboxes; 2004 Teton Sunrise 33' camper; 50' x 14' mobile living quarters; Patriot 220 seed tender poly auger; 2013 Atlas Copco portable air compressor; John Deere 7200 8 row 30' planter; John Deere 1750 8 row 30' planter; John Deere 19' disk; Krause 4900 22' disk; Case-IH 30' field cultivator; and more!

**TIMED ONLINE • NO-RESERVE MACHINERY ESTATE AUCTION**  
BIDDING WILL BEGIN CLOSING: **THURS., MARCH 4, STARTING AT 10:00 A.M.**  
*Items are located at the farm near Hoxie, Kansas*  
**RAYMOND "BUTCH" MINIUM ESTATE**  
Equipment Questions: Mike (785) 269-7198

Auction Managers: Matt Sullivan (309) 221-7001 & Cody Holst (217) 242-8747

**INSPECTION: FRI., FEBRUARY 26 • 10 AM - 4 PM**

**HIGHLIGHTS INCLUDE:** 2014 Case-IH Magnum 380 MFWD tractor, CVT trans., suspended front axle, 2,250 hours, SN ZERF08005; 2005 Case-IH STX325 4wd tractor, PS trans., 1000 PTO, 1,583 hours, SN JEE0108765; 2013 Case-IH 8230 2wd combine, 1,924 eng./1,420 sep. hours, SN YDG220 413; 2010 Case-IH 8120 4wd combine, 2,536 eng./1,781 sep. hours, SN YAG208241; 2017 Case-IH 4412 12 row 30' corn head, SN YHH632778; 2012 Case-IH 2162 35' flex draper head, SN YCZ17554; 2008 Case-IH 3412 12 row 30' corn head, SN Y8S018026; 2017 MacDon FD75-D 40' flex draper head, SN 305206; Dose 37' head cart; Maurer 32' head cart; Patriot Crop Sweeper 12 row 30' down corn reel; 2017 Apache AS1020 self-propelled sprayer, 1,000 gal. tank, 100' boom, 813 hours, SN 9170415; 2005 B-B 47' sprayer trailer, 3,000 gal. tank, outriggers, Batchboy chemical system; Case 521E XR wheel loader, bucket with grapple, 6,677 hours, SN N8F204320; Case-IH 1250 24 row 30' planter, central fill, loaded with Precision Planting equipment, SN Y8S007143; John Deere 1890 CCS 40' air seeder, 10' spacing; Orthman 1R1Pr 12 row 30' NH3 strip till bar, complete w/ Elk Creek caddy; Kinze 1300 grain cart, duals, scales, roll tarp, SN 100196; (2) Quinstar sweep plows; Quinstar 7-shank ripper; Sunflower 24' disk; 2000 Freightliner FL70 feed truck, Cat 3126 eng., auto trans., Feed Mixer 490-14 bed; Haybuster H-1100 Big Bite tub grinder; Wheatheat High & Heavy Hitter post pounder, Honda GX380 eng., SN 213408; L-H Versa-Tote portable bulk bin; Scott portable cattle tub and alley; Hands 15' seed tender; Fuel Mate 750 gal. fuel trailer, DEF tank; Handler III chemical mixer; Rhino 15' batwing mower; Hesston 5580 round baler, as-is; 2006 Kenworth T800 day cab semi, Cat C15 eng., 10-spd. trans., 611,828 miles; 2000 Kenworth T800 day cab semi, Cat C12 eng., 10-spd. trans., 1,030,819 miles; 2013 Timpette 40' hopper bottom trailer, ag hoppers, air ride, power tarp; 1997 Jet 34' hopper bottom trailer, spring ride, power tarp; 2014 Ford F-350 4wd pickup, Lariat, 6.7L diesel eng., auto trans., crew cab, short bed, 20" wheels, B&W gooseneck hitch, 57,150 miles, VIN 1FT8W3B72EEB63074; 2006 Ford F-250 4wd pickup, XLT, 6.0 diesel eng., auto trans., extended cab, aluminum flatted, 166,986 miles; 2012 Hillsboro 26' aluminum livestock trailer, gooseneck, (2) center divide gates, VIN 1TH2A2HK2C1026099; 2014 Eagle 24' flatted trailer; 2020 Polaris Ranger 1000 XP 4wd UTV, full cab with heat, power steering, aluminum wheels, 1,123 miles; 1988 Ford bucket truck; Chevrolet 50 flatted truck; 2015 Fuzion Chrome F2345 camper; 2014 Harley Davidson 110 Screamin Eagle motorcycle, 23,681 miles; 40'x8' shipping container converted to doghouse, 5 pens, heat/AC, insulated; and more!

### ESTATE AUCTION

**SUNDAY, FEBRUARY 28, 2021 - 9:30 AM**  
1545 N. 3rd, LAWRENCE, KANSAS (N. Lawrence)  
*Large Bldg. Limited Heat ... Dress Warm!*

**40+ FIREARMS**  
Pre 64 Winchester Model 06 .22 Rifle; Bushmaster AR15 223; Bushmaster AR15 308; M1 Carbine 30 Caliber Semi-Auto w/case/sling/bayonet; Winchester Model 94 30-30 Lever Action; Savage Model 842 30-30; Marlin Model 18940 357 mag/38 sp. Lever Action; Remington Model 700 22-250 w/Scope; Remington 11-48 12 ga. semi-auto w/3 chokes; Colt The Colteer 22 Rifle; Savage Model 93R17; Browning Belgium A-5 12 ga.; Weatherby Vanguard 223 w/scope; Savage Model 93 22 mag; Benelli 20 ga; Winchester Model 1400 12 ga.; Sears Model 273-2351 .22 mag lever-action; JCS Higgins 20 ga Bolt-Action; Sarsa 12 ga.; Winchester Model 67 .22; Dickson-Lightech Falcon 12 ga No. 1302 Double Barrel; Ruger 22/45 Stainless Target Pistol; Sterling Arms .25 Auto Pistol; Vintage Smith Wesson Model 93R17; Browning Belgium A-5 12 ga.; Weatherby Vanguard 223 w/scope; Savage Model 93 22 mag; Benelli 20 ga; Winchester Model 1400 12 ga.; Sears Model 273-2351 .22 mag lever-action; JCS Higgins 20 ga Bolt-Action; Sarsa 12 ga.; Winchester Model 67 .22; Dickson-Lightech Falcon 12 ga No. 1302 Double Barrel; Ruger 22/45 Stainless Target Pistol; Sterling Arms .25 Auto Pistol; Vintage Smith Wesson Model 93R17; Browning Belgium A-5 12 ga.; Weatherby Vanguard 223 w/scope; 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# Purdue-developed dashboards will offer timely food supply info during crises

In the early weeks of the COVID-19 pandemic, as governments issued lockdown orders and stay-at-home advisories, grocery store shelves went bare. Shoppers scooped up flour and yeast, canned goods, frozen vegetables, meats and any other staples that they were concerned could run out before they got the chance to return to the stores.

With few exceptions, there were no real concerns about food shortages in the United States, said Jayson Lusk, distinguished professor and head of Purdue's Department of Agricultural Economics. However, there was no easy way for consumers or policymakers to know that since data that could be used to calculate the risk to the country's food supply is spread piecemeal across multiple government agencies like the U.S. Department of Agriculture and the Bureau of Labor Statistics.

This experience motivated Lusk to lead a partnership among Purdue University, the Foundation for Food and Agriculture Research and Microsoft to create open-access online dashboards that can track and report the factors that could lead to food supply disruptions during national and global emergencies.

"The data are not always user-friendly for people unless you're a specialist and know where to go to find it all," Lusk said. "There were disruptions for consumers that didn't have to occur. In the early aftermath of that, I was part of a group brainstorming the types of information that needs to be accessible and what we can do to help the food and agriculture sectors, government and consumers understand what's going on during an emergency. We believe these dashboards can help." FFAR is providing

more than \$220,000 to Purdue, with Microsoft matching those funds and supplying cloud technology, business intelligence, artificial intelligence and machine learning tools for the project. The total investment in the project is more than \$500,000.

"The coronavirus pandemic has highlighted the need for easily accessible data on potential vulnerabilities in the food supply chain," said Sally Rockey, executive director of FFAR. "This research is exposing those vulnerabilities in real time, providing policymakers and industry with the information needed to prevent bottlenecks and ensure food security."

While the dashboards are being developed with COVID-19 in mind, they will be adaptable to any other situation that could cause a food supply disruption. The work will build off the Purdue Food and Agriculture Vulnerability

Index, which quantifies the potential risk to the supply of agricultural products because of farm and agricultural worker illnesses from COVID-19.

"There are certainly still concerns about COVID, but the idea is to develop multiple dashboards on different topics so that we're prepared to respond to a variety of issues that might come up during a large-scale emergency," Lusk said. "The dashboard we have now is based on publicly available data and only tells you so much. With these new dashboards, we'll integrate machine learning and make extrapolations to better estimate and predict disruptions in the food supply sector."

One area that has been a concern during COVID-19 is the meat processing sector, where high rates of COVID among workers can disrupt operations. Lusk said dashboards will zoom in on the county level to show the percentage of residents who

are sick and use machine learning to estimate the number of workers in a plant that may be affected or could be in the near future. That information can be useful to health officials and government agencies, who could shift resources to those areas or enact rules to counteract the problems.

The work also offers researchers data to identify the impacts of policy de-

terminations during a pandemic or other type of large-scale emergency.

"These dashboards may give us the opportunity to understand how regulations impact food supply during a pandemic," Lusk said. "That can help inform future decisions so that we can keep food flowing from areas of low demand to high and getting to the people who most need it in difficult times."

## CAB launches #RestaurantChallenge

By Nicole Erceg

As the 2012 drought was to the cattleman, this pandemic has been to the restaurateur.

The foodservice sector is one of the main demand drivers for U.S. beef. As everything from business travel to tourism was curtailed in the past year, it's had trickle-back repercussions throughout the industry.

"A lot of restaurants are still barely holding on, just trying to get through this," says Josh Moore, executive chef at Volare in Louisville, Ky. "It's difficult, and I think a lot of restaurateurs choose to not talk about it, but they're burdened with the stress of if they are going to be able to hang on for another couple months."

Data from the National Restaurant Association shows one in six restaurants has already closed and the next few months

are critical for those continuing to operate.

The key to survival? Help from friends and neighbors.

To inspire and build support for this key pillar of the high-quality beef market, the Certified Angus Beef® (CAB®) brand launched #RestaurantChallenge last week.

The campaign celebrates special moments, highlights the hardship and incentivizes dining—all with the goal of driving foodservice sales.

It's anchored by a two-minute video that ends in calls to action:

Grab takeout

Dine in at a favorite steakhouse (if that's an option)

Buy gift cards

Share favorite memories on social media with the hashtag: #RestaurantChallenge

"These actions — and small acts of kindness like

tipping big, leaving a five-star review or sharing social media posts — all add up," says Deanna Walenciak, CAB vice president of brand marketing.

From now through April 11, dine in or order carryout, post on Facebook or Instagram and use that official #RestaurantChallenge hashtag for a chance to win weekly \$100 gift cards.

"You also have a chance to make your tip go further," she says.

Tag a CAB partner restaurant in your post and each week during the course of the campaign, selected restaurants will receive \$2,500 for their staff.

"Rare moments and memories are made in our favorite places to dine. It's up to all of us to step up to support these places so that we can continue to celebrate life's moments and keep local businesses alive," Walenciak says.

In challenging times, a little help goes a long way.

It might seem like a tall task to help restaurants nationwide survive, and nobody can do it alone, she says. But small actions have a way of gaining momentum, the kind that could see restaurants through until their dining rooms are full again.

Learn more and get involved at challenge.certifiedangusbeef.com.



These junior Angus members won top honors in the intermediate showmanship division at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson. Pictured from left are Jayce Dickerson, Paradise, champion; Greta Rosenhagen, Kansas Angus ambassador, presenting; and Lizzie Schafer, Owaneco, Ill., reserve champion.

Photo by Jeff Mafi, American Angus Association

## INDIAN ARTIFACTS, CAST IRON, COLLECTIBLE AUCTION

SUNDAY, FEBRUARY 28, 2021 - 10:00 AM

LOCATION: Wm Carpenter 4-H building, at the fairgrounds, north edge of SCOTT CITY, KS.

**ARTIFACTS & ARROWHEADS:** Approximately 40 frames of quality arrowheads and about another 20 points w/COAs, some framed and others loose. Most all have provenance and there is no junk. All points were recovered in the USA. Many from well known collections that were up at auction. Most were collected in the Midwest and Western. Some frames contain many points found in the Columbia river basin in Oregon and Washington state and were purchased from the actual finder/collector through reputable auctions, specializing in quality genuine artifacts.

**CAST IRON:** Cast iron cookware, vintage & antique, cleaned restored, re-seasoned w/flax seed oil, ready to go! Griswold skillet from size #3 to size #12, with & without heat ring; Griswold Dutch ovens w/original lids, most size #8 & (1) size #12; large black logo, small logo & large slant logo; some waffle irons, also cleaned & re-seasoned; Wagner Ware skillet from size #2 (rare) to #12; pre-1968 "made in USA", Erie & post 1968; Wagner Ware Dutch ovens, most size #8 some waffle irons, also cleaned & re-seasoned; Wapak skillet, mixed sizes; Piqua Favorite ware skillet, mixed sizes; Early Lodge "3 notch" from size #3 to #14; Birmingham Stove & Range, "BSR", mixed sizes.

**SPORTING GOODS:** Black powder, accs., bullets, balls, caps, loading tools, powder flasks & horns, bags; 3 Hyskore foam pistol caddys for Safe storage; too many to list MCM Case-Gard plastic ammo boxes; lots of leather & cordura holsters & ammo belts; 3 cases MRES; knives, sev. vintage new in box "Made in USA" Buck knives Ammo, all new in orig. boxes; 1000s rounds of new boxed .22 LR CCI, Hornady, Remington .22 mag WMR; .17 HMR, CCI, Winchester & Hornady many 100s of rounds of new boxed, .223 ammo & .556 nato many 100s of rounds of 7.62x39 new boxed ammo; lots of .45 colt cowboy ammo; **Much more ammo!** Rifle & pistol magazines; many, steel Kay Industries, New Britain, CT USA 30 round AR mags, used many Magpul, PMag 30 AR/M4 new in pkg; primers, pistol, rifle & shotshell, large rifle, large pistol & small pistol 3 bags of lead shotshell shot; shot shell reloading wads, 12, 20 & 28 ga.; rifle range/workshop rifle rest; M Elk antler sheds, new browns; Military ammo cans; Elk Antler sheds, new brown.

**Collectibles, Vintage Fiesta ware & other items!** COINS: 9 mixed lots Morgan silver dollars; 10 mixed lots Peace silver dollars; 24 mixed lots Barber 1/2 dollars, 1894-1915, more than \$200 face 4 lots mixed key dates 1/2 dollars 1 lot mixed 1964 & older Washington quarter, \$17 face; 21 lots key date Barber quarters; 1 lot mixed dates 1964 & older Ben Franklin 1/2 dollars, 33 coins, \$16.50 face 5 lots, 100 coins, \$25 face each of Barber 1/2 dollars; 3 mixed lots Indian head pennies, 85 coins total; 14 mixed lots Liberty walking 1/2 dollars from 1916-1939; 1 lot of 20 coins, Barber dimes; **Much more not listed!**

Check us out on Facebook & at [www.berningauction.com](http://www.berningauction.com)

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### AUCTION

**SATURDAY, FEBRUARY 27, 2021 — 11:00 AM**  
Due to health concerns, following sells at 1487 W. 109th, WAKARUSA, KANSAS

2013 Chevrolet 3500 HD single cab, 4WD, 6.0L, leather, power w/9' Hillsboro alum. flatbed, 15,000 mi.; 1970 Chevrolet C-50 w/18' grain bed & hoist, may not run; 2002 Coose GN stock trailer, 7x28', some rust; JD 955 dsl Tractor, FWA, ROPS, Turf Tires, shows 754 hrs.; Land Pride 5' rotary mower, 3 pt.; Indep. Mfg. 8' blade, 3 pt.; NH 358 mixer grinder; NH 275T sq. baler; (3) four-wheel wagons; JD STX38 mower, not running; Troybilt Horse Tiller; 3 rolls of 3' woven wire, new; 3 small Quanset stock huts; assortment Farm Misc. Items.

**NOTE: Blacktop Roadside Parking. Lunch available. Be on Time! Bigger items could sell before Noon. INSPECTION DAY OF SALE ONLY, Please. Cash or Check Only.**

**VERNON & MARJORIE ROBB, SELLERS**

Pics & Full Listing:  
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**SATURDAY MARCH 20, 2021** | SALE 5 PM. followed by meal and entertainment by Nashville recording artist Jason Callahan!

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**40 Angus & 20 SimAngus** - 18-month-old bulls  
**10 F1 Baldy Heifers** - bred for 2021 fall calves  
**10 Heifer Pairs** - calves born Feb. of 2021, sired by SAV Rainfall



Growth Fund



TEX Playbook



Cowboy Cut

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Angus: Growth Fund - Playbook - Gold Rush - Consensus - Bronc Embazon 999  
Simmental: On The Mark - Cowboy Cut - Exclusive

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PRIME	75.0	68%	Prime
CAB	28.0	26%	CAB
CHOICE	7.0	6%	Choice
SELECT	0.0		
HIFERETTE	0.0		
NO-ROLL	0.0		
OTHER	0.0		
TOTAL	110		

**100% = \$15,778.27 in premiums**

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--	---

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31<sup>st</sup> ANNUAL PRODUCTION SALE

# BAR ARROW CATTLE COMPANY


MARCH 9, 2021 | 1:00 PM CST | AT THE RANCH



**BAG 37H**

Sire: BAG Fast Back AMGV1478527 BA75  
Red Carrier - Heterozygous Polled


CED	BW	WW	YW	TM	YG	CW	CREA
10	1.7	82	120	58	-0.19	45	0.84
85	90	10	20	30	10	15	3



**BAG H17**

Sire: IVERS Cinch AMGV1478593 BA75

CED	BW	WW	YW	TM	YG	CW	CREA
12	0.1	72	114	51	-0.11	46	0.71
60	65	40	30	70	35	15	15



**BAG 65H**


Sire: BAG Cty,de 46D AMGV1493983 BA63  
Red Carrier - Homozygous Polled

CED	BW	WW	YW	TM	YG	CW	CREA
11	2.2	82	119	52	0.00	0.49	0.49
75	95	10	20	65	80	30	55

**80** Gelbvieh & Balancer Bulls

**15** Gelbvieh & Balancer Elite Heifers


**OTHER SIRES:**  
GRU Early Encounter  
LAZY TV Sam Elliot  
BAG Dave F292



**BAG 85H**

Sire: BAG Fast Back AMGV1493984 PC75  
Heterozygous Polled

CED	BW	WW	YW	TM	YG	CW	CREA
8	2.8	77	116	51	-0.14	38	0.70
95	>95	15	20	70	50	30	30



**BAG H13**

Sire: SKYS Encore AMGV1478566 BA50  
Homozygous Polled

CED	BW	WW	YW	TM	YG	CW	CREA
11	1.4	82	119	61	-0.11	42	0.74
75	90	10	20	15	35	25	10

**Bar Arrow Cattle Company**

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Phillipsburg, KS  
785.543.8120 (c)  
bararrow@ruraltel.net  
785.309.6455, Cody 785.302.0429, Kayla

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

**DVAuction** Broadcasting Real-time Auctions

## Frontier Extension District to hold heifer selection and management meeting virtually

The Frontier Extension District will hold a virtual meeting on "Heifer Selection and Management," February 24, beginning at 7:00 p.m. To register for the Zoom presentation, please call the Extension office in Ottawa at 785-229-3520 or by emailing madisonmb@ksu.edu. madisonmb@ksu.edu. They would like your name, phone number and email. Zoom details will be mailed out a day or so prior to the meeting. Jaymelynn Farney, KSU beef systems specialist, will be the evening's featured speaker.

When you go to the heifer pen to select heifers for the upcoming breeding season, you are making choices that will influence your profitability for many years. How do you know which ones to keep or which ones to sell? They will discuss some of the things to consider when making heifer selections.

Once the heifers are selected, management and heifer development play an important role in getting your heifers bred and through their first calving season. There will be discussion on immunizations for breeding

heifers, what weight they should be at breeding, if you can use ionophores in their growing rations, if pelvic measurements are important, and when selecting a sire, how much calving ease is needed. These things and more will be discussed during our 45-minute Zoom meeting with Dr. Farney.

The meeting will be recorded for later viewing on the District's web site at [www.frontierdistrict.k-state.edu](http://www.frontierdistrict.k-state.edu) and will also be available for viewing on Facebook Live. Please mark your calendars and get registered today!

## 2020 pork exports shatter previous records; December beef exports outstanding

U.S. pork exports reached nearly 3 million metric tons (mt) in 2020, topping the 2019 record by 11%, according to data released by USDA and compiled by the U.S. Meat Export Federation (USMEF). Pork export value also climbed 11% to a record \$7.71 billion. Exports set new annual records in China/Hong Kong, Central America, Vietnam and Chile, and achieved strong fourth-quarter growth in

Japan and Mexico. U.S. beef exports finished 2020 lower year-over-year, falling 5% in both volume (1.25 million mt) and value (\$7.65 billion). But beef exports finished the year with very strong momentum, with fourth-quarter volume up 4.5% from 2019 and posting one of the best months on record in December. Beef exports to China were record-large in 2020 and a new volume record was

also achieved in Taiwan. "Obviously the surge in demand from China, especially in the first half of 2020, was a driving force behind the record performance for U.S. pork exports," said USMEF president and CEO Dan Halstrom. "But China was not the only success story in 2020, as exports achieved growth in a broad range of markets. Diversifying export markets is a top priority

for USMEF and the U.S. industry, and that strategy paid dividends - especially in the fourth quarter, when exports to China/Hong Kong were down 9% from 2019 but shipments to the rest of the world nearly offset that slowdown."

Beef exports were heavily impacted by food-service restrictions in many major markets but trended higher late in the year, bolstered by very

strong retail and holiday demand.

"Consumers across the world responded to the COVID-19 pandemic by seeking high-quality products they could enjoy at home, and U.S. beef and pork definitely met this need," Halstrom said. "We expect these retail and home-delivery demand trends to continue even as sit-down restaurant dining recovers, creating robust opportunities for U.S. red meat export growth."

December pork exports totaled 259,654 mt, down 8% from the very large year-ago volume, with value down 10% to \$687.2 million. December muscle cut exports were also down 8% at 219,224 mt, valued at \$590.2 million (down 11%). For the full year, pork muscle cut exports were record-large at 2.51 million mt, up 15%

from 2019, valued at a record \$6.67 billion (up 12%).

December beef exports totaled 119,892 mt, up 8% from December 2019 and the largest in nearly ten years. Export value was \$744 million, up 9% from a year ago and the second highest total on record. December exports of beef muscle cuts were the second largest ever at 93,941 mt, climbing 11% year-over-year in both volume and value (\$659.8 million). For 2020, beef muscle cut exports were down 2% year-over-year at 976,953 mt and fell 5% in value to \$6.77 billion.

U.S. lamb exports reached a record 20,045 mt in 2020, up 27% year-over-year, though export value fell 9% to \$23.8 million. Export growth was led by leading market Mexico, where volume climbed to 18,927 mt (up 38%) valued at \$17.4 million (up 25%).

## China continues buying spree

As of Jan. 29, China purchased another 2.1 MMT (82.7 million bushels) of U.S. corn, which totals 17.7 MMT (696.8 million bushels) purchased this marketing year - an amount that surpasses the U.S. Department of Agriculture's (USDA's) 2020/2021 China import estimate without factoring in sales to unknown destinations that often turn out to be from Chinese buyers.

"China is purchasing more now than they ever have," said U.S. Grains Council president and CEO Ryan LeGrand. "We must continue to maintain that relationship because they are such a strong source of demand and because they hold even more potential. We are seeing only some of that potential this year in the export sales that we have on the books, but it could grow much more and it's up to us to help capture that demand."

Domestic corn demand within China is high with margins favoring imports.

## KEY FEEDS CATTLE MINERAL SALE: Feb. 1 - May 15, buy 20 bags and get 1 bag free!

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Key Feeds will custom mix your cattle mineral the way you want.

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FEED



FEEDS

Joseph Ebert, VP

Fourth & Pomeroy Associates, Inc.

## JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from February 10, 2021

STEERS			
2	495	180.00	18
3	483	178.50	9
4	476	178.00	22
4	516	170.50	4
4	557	167.50	5
22	598	165.25	22
15	625	163.50	19
24	617	161.50	12
24	720	151.00	20
27	682	150.75	11
62	746	145.50	11
20	753	143.75	28
18	776	141.25	31
24	787	140.25	12
41	828	139.60	17
62	817	135.25	21
64	834	134.75	43
20	851	132.50	8
18	855	132.00	
47	875	130.60	
66	900	130.00	
12	958	125.00	

TOP BUTCHER COW: \$73.00 @ 1,140 LBS.  
TOP BUTCHER BULL: NO TEST

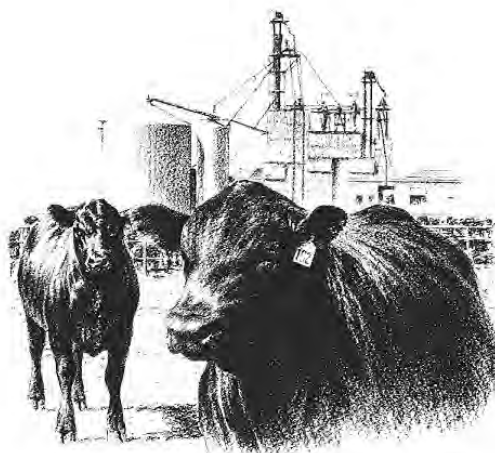
## CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

Report from February 9, 2021

VERY LIGHT RUN DUE TO SEVERE WEATHER CONDITIONS. TOP BUTCHER COW: \$73.25 @ 1,350 LBS. TOP BUTCHER BULL: NO TEST

Be sure to check out our Facebook page for the latest consignments.



### CONSIGNMENTS FOR FEBRUARY 17:

60 blk x.....strs.....	800-850 lbs.
80 Red x.....strs.....	800-950 lbs.
120 blk x.....strs.....	800-950 lbs.
75 blk x.....hfrs.....	750-850 lbs.
30 blk x.....strs & hfrs.....	800-900 lbs.
20 blk x.....strs & hfrs.....	650-800 lbs.
65 blk x.....strs & hfrs.....	650-800 lbs.

PLUS MORE BY SALE DAY!

Watch online with [cattleusa.com](http://cattleusa.com) (Tab J.C. Livestock Sales) Must register to bid.

If you need assistance in marketing your cattle please call & we will be happy to discuss it with you.

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THERE WAS NO SALE HELD WEDNESDAY, FEBRUARY 10th DUE TO WEATHER

EARLY CONSIGNMENTS FOR FEB. 17  
• 45 blk bred cows, 2 yrs & up, Spring calvers w/ a few Falls.  
• 35 blk & bwf strs & hfrs, longtime weaned, 500-650#  
• 35 mostly blk strs & hfrs, longtime weaned, 600-700#  
• 19 blk strs & hfrs, 600-800#  
• 35 mix strs & hfrs, longtime weaned, 700-800#  
• 230 mix strs & hfrs, 700-850# - PENDING  
• 20 blk & bwf bred hfrs, 800-1,000#  
• 15 blk & bwf Spring bred hfrs, bred to Harms LBW bull, 850-1,000#.  
PLUS MORE BY SALE TIME!

EARLY CONSIGNMENTS FOR FEB. 24  
• 160 mix strs, 800-900 lbs.  
PLUS MORE BY SALE TIME!

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WIBW 580 - 6:45 A.M. Thurs; KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.  
To see more consignments go to: [emporialivestock.com](http://emporialivestock.com)

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# Managing mother's milk – K-State veterinarians discuss the importance of a calf nursing in the first 24 hours of its life

By Lisa Moser

The old phrase “Milk Does A Body Good” is an advertising slogan from the 1980s but still rings true today, not only for people but for cattle as well. And just like in humans, the most important drink of milk in a calf's life happens within the first 24 hours, according to Kansas State University veterinarians Bob Larson and Brad White.

“The first milk the calf gets is called colostrum and it provides critical immunity passed from the dam to her offspring,” White said. “Cattle aren't born with immunity and

the colostrum is vital to their health as they are exposed to pathogens in the first few months of life.”

In cattle, timing is everything, according to Larson who addressed this topic on a recent Beef Cattle Institute Cattle Chat podcast.

“Calves are only able to absorb the colostrum within the first 24 hours of life because of changes that happen in the gut wall, and ideally calves need to be nursing several times within the first 12 hours for the best success,” Larson said.

For that to happen Larson stressed the im-

portance of a cow bonding with her calf early and that the calf is born in a clean, dry environment. He added that the cow's health is important too.

“If she is in good body condition, she'll concentrate the antibodies in the first milk,” Larson said. “It is also important that she is current on her vaccinations so that she can pass that protection to her calf.”

The veterinarians agreed that it is ideal when the cow and calf can manage this without assistance, but sometimes that isn't the case.

“If there's been a difficult birth, sometimes the cattle producer or veterinarian will have to offer assistance in delivering the colostrum to the calf,” Larson said.

That may mean putting the cow in the chute to milk

her out and bottle-feed the calf, or it may involve supplementing the calf with a commercial milk powder or colostrum provided by another cow from the same herd to avoid introducing diseases through the colostrum, Larson said.

“Mother's milk is the

best, and if that isn't an option, then I would recommend feeding the calf a commercial colostrum replacement product,” Larson said.

To hear more on this topic, tune in to the BCI Cattle Chat podcast online.

## Kansas Pork Association introduces Realbacon.com

The Kansas Pork Association announces the introduction of Realbacon.com, a website created for bacon lovers across the world by the pig farmers of Kansas. It includes information on buying and cooking bacon to help consumers enjoy every slice.

“This site was designed simply to remind consumers how much fun bacon can bring to a day,” said Tim Stroda, KPA president and CEO.

One of the highlights of the site is a tool that gathers the posts of the KPA #BaconAmbassadors into one easily accessible area. These ten influencers are hard at work throughout the year creating drool-worthy pork dishes. As new meal ideas are posted, the tool will update to show their latest work. Stroda added “Of course, the recipes using bacon are the best!”

If you are a Realbacon fanatic, you'll want to see the bacon-themed gifts and accessories available in the online shop. The merchandise is sourced through a print-on-demand system that allows the KPA to offer an ever-changing group of designs as well as custom orders.

For more information, visit Realbacon.com.



Molly McCurry, Hutchinson, won top honors in the peewee showmanship division at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson.

Photo by Jeff Mafi, American Angus Association



These young Angus enthusiasts won top honors in the junior showmanship division at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson. Pictured from left are Cheyenne Brunker, Ottawa, champion; Greta Rosenhagen, Kansas Angus ambassador, presenting; and Dakota Allen, Ottawa, reserve champion.

Photo by Jeff Mafi, American Angus Association



These young Angus enthusiasts won top honors in the novice showmanship division at the 2021 Kansas Angus Futurity Junior Show, Jan. 31 in Hutchinson. Pictured from left are Hallie Mullen, Ulysses, champion; Greta Rosenhagen, Kansas Angus ambassador, presenting; and Broxton Navinsky, Winchester, reserve champion.

Photo by Jeff Mafi, American Angus Association

**Holton Livestock Exchange, Inc.**  
 1/2 mile East of Holton, KS on 16 Highway  
**Livestock Auction every Tuesday at 12 NOON**  
**\*\*\*STARTING TIME: 12:00 NOON\*\*\***

**MARKET REPORT FOR TUESDAY, FEBRUARY 9, 2021**  
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These young ladies were crowned Angus royalty and are pictured at the 2021 Kansas Angus Association Annual Meeting and Banquet, Jan. 30 in Hutchinson. Pictured from left are Kelsey Theis, Leavenworth, Miss Kansas Angus; and Greta Rosenhagen, Cheney, Kansas Angus ambassador.

Photo by Anne Lampe, Kansas Angus Association

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 Hog/Sheep/Goat Auction- Every 3rd Saturday  
 Horse/Tack Auction- Every 1st Saturday

Results From February 9<sup>th</sup> Sale:

Steers		Heifers	
400-500#	\$152.00-\$187.50	400-500#	\$156.00-\$167.00
500-600#	\$140.00-\$161.00	500-600#	\$120.00-\$159.00
600-700#	\$125.00-\$159.00	600-700#	\$118.00-\$137.00
700-800#	\$123.00-\$134.00	700-800#	\$110.00-\$136.00
800-900#	\$128.00-\$130.00		

**Tues., Feb. 23<sup>rd</sup> - Holstein Special**  
**Sat., March 6<sup>th</sup> - Horse & Tack Sale**  
**Tues., March 9<sup>th</sup> - Calf/Yearling Special**

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\*\*\*\*\*  
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 KHarms Instagram page for frequent updates.

# Grass & Grain Weather Report Feb. 17, 2021

Seven Day Forecast	In-Depth Local Forecast	Today's Local Outlook																																
<b>WEDNESDAY</b> Mostly Cloudy High: 21 Low: 1  <b>THURSDAY</b> Partly Cloudy High: 27 Low: 8  <b>FRIDAY</b> Sunny High: 29 Low: 9  <b>SATURDAY</b> Partly Cloudy High: 31 Low: 12  <b>SUNDAY</b> Mostly Cloudy High: 33 Low: 13  <b>MONDAY</b> Sunny High: 35 Low: 16  <b>TUESDAY</b> Sunny High: 36 Low: 15	Today we will see mostly cloudy skies with a high temperature of 21°, humidity of 72%. North wind 2 to 5 mph. The record high temperature for today is 77° set in 2017. Expect partly cloudy skies tonight with an overnight possible record low of 1°. West southwest wind 3 to 6 mph.  <b>Last Week's Almanac</b> <table border="1"> <thead> <tr> <th>Date</th> <th>HI/LO</th> <th>Normals</th> <th>Precip</th> </tr> </thead> <tbody> <tr> <td>2/5</td> <td>47/22</td> <td>43/19</td> <td>0.00"</td> </tr> <tr> <td>2/6</td> <td>24/6</td> <td>43/19</td> <td>0.01"</td> </tr> <tr> <td>2/7</td> <td>11/7</td> <td>43/19</td> <td>0.00"</td> </tr> <tr> <td>2/8</td> <td>8/6</td> <td>43/19</td> <td>0.00"</td> </tr> <tr> <td>2/9</td> <td>16/6</td> <td>44/20</td> <td>0.00"</td> </tr> <tr> <td>2/10</td> <td>15/10</td> <td>44/20</td> <td>0.00"</td> </tr> <tr> <td>2/11</td> <td>16/7</td> <td>44/20</td> <td>0.00"</td> </tr> </tbody> </table> Rainfall ..... 0.01" Normal rainfall ..... 0.26" Departure ..... -0.25" Average temp ..... 14.4° Average normal ..... 31.4° Departure ..... -17.0°	Date	HI/LO	Normals	Precip	2/5	47/22	43/19	0.00"	2/6	24/6	43/19	0.01"	2/7	11/7	43/19	0.00"	2/8	8/6	43/19	0.00"	2/9	16/6	44/20	0.00"	2/10	15/10	44/20	0.00"	2/11	16/7	44/20	0.00"	
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<b>Local UV Index</b> 0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure	<b>Weather History</b> Feb. 17, 1990 - The biggest winter storm of the season hit the Pacific Coast Region. In northern California, snow fell along the coast, and two day totals in the mountains ranged up to 67 inches at Echo Summit. Snowfall totals in the mountains of southern California ranged up to 48 inches at Green Valley, with 46 inches reported at Big Bear.	<b>Growing Degree Days</b> <table border="1"> <thead> <tr> <th>Date</th> <th>Degree Days</th> <th>Date</th> <th>Degree Days</th> </tr> </thead> <tbody> <tr> <td>2/5</td> <td>0</td> <td>2/9</td> <td>0</td> </tr> <tr> <td>2/6</td> <td>0</td> <td>2/10</td> <td>0</td> </tr> <tr> <td>2/7</td> <td>0</td> <td>2/11</td> <td>0</td> </tr> <tr> <td>2/8</td> <td>0</td> <td></td> <td></td> </tr> </tbody> </table>	Date	Degree Days	Date	Degree Days	2/5	0	2/9	0	2/6	0	2/10	0	2/7	0	2/11	0	2/8	0														
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# Keeping calves healthy

**By Jody G. Holthaus, Meadowlark District Extension agent, livestock and natural resources**

Prevention of disease is, of course, preferred to treatment. One key to prevention, according to some, is to keep things simple or as natural as possible. But in nature or the wild, disease of the newborn often causes rates of loss that would be unprofitable for livestock producers. And while it might be wise to keep things natural or simple, the fact is, the situation has been made unnatural by putting up fences, crowding the animals, fixing the calving season, and giving the cattle no choice as to feed. Is there a way to prevent that occasional loss?

Three factors are extremely important in determining whether a calf remains healthy, survives a disease, or dies. Managers must recognize all these factors: The amount of immunity the calf receives from the dam via colostrum. The kind and amount (dose) of infectious disease agents in the calf's environment and stress is a factor that facilitates or encourages disease establishment.

The colostrum contains antibodies that are absorbed from the intestine into the calf's bloodstream and search for and de-

stroy viruses, bacteria, and some parasites. It follows that the cow has to do a good job of manufacturing these antibodies, and to do that, she has to be doing well herself for the many months before calving. If she is not given the proper nutrients to be in excellent health, not only will she not produce good colostrum, but she may produce a calf that is weaker and smaller than desirable. A newborn healthy calf will usually get up and find the milk supply within a few hours. Keep in mind that if the cow has been lying in some scours from an earlier calf in the pen or pasture, the newborn may ingest massive doses of pathogens (germs) before it finds the colostrum. In some cases, this automatically results in severe diarrheal disease and quick death. The newborn calf has the capacity to absorb the colostrum antibodies into its bloodstream only for the first 12 to 24 hours of life. Difficult birth and stress may dramatically shorten the duration of this ability and thus reduce the amount of protection against life-threatening pathogens. After the first 12 to 24 hours, the unabsorbed colostrum antibody is digested like any other protein. Milk replacers or milk don't have this protective effect. The beef calf should consume

at least two to three quarts of colostrum in the first 12 hours after birth to receive enough protective antibodies.

Sick cows, cows with blind quarters, and perhaps some first-calf heifers may not produce that quality and quantity. Also, some heifers may not bond with the calf soon enough. When in doubt, first milking colostrum obtained from dairies, frozen and stored in advance, can be fed to the deficient calf—two quarts right away and two quarts six to eight hours later. In the case of first-calf heifers, prolongation of the time before the calf gets up and tries to suckle may interfere with bonding. Therefore, when supplementing the calf of the first-calf heifer, probably no more than three cups should be fed at a time. Dairy cow colostrum tends to be a little less concentrated in terms of antibody, hence the need to feed a little more than the two to three quarts of beef-cow colostrum mentioned previously when supplementation is the only source of colostrum.

Vaccinations. The protective spectrum of the colostrum can be enhanced by vaccinating the cow against the diseases I (E. coli), Clostridium perfringens, rota virus, corona virus, infectious bovine rhinotracheitis virus (IBR), bovine virus diarrhoea virus (BVD), and others. Some of these vaccines' effectiveness is sometimes questionable, with apparently great results on one farm and poor outcomes on another. Some of the apparent failures of vaccines are due to not following directions or vaccinating cows that are not in good enough condition to mount a good response to the vaccine. Also, the vaccine organisms may differ slightly from the ones carried in the herd, and therefore protection by vaccination may not be optimal in such a case. Since many of the calf disease agents are carried by the cows, those agents will be in the calf's environment in large doses when it is born, especially if all the cows are crowded in an area that also serves as the maternity area. Infections through the navel (navel ill) occur at birth, especially under conditions of heavy contamination of wet, muddy maternity areas. The infections commonly spread to joints (joint ill), belly cavity, heart-sac, and brain from the navel. Clean calving areas and the practice of soaking the navel with a potent tincture of iodine soon after birth seem to be important and logical factors for preventing navel infections. One management objective is to keep an environmental load of pathogens at the lowest possible level. The area where the calf is born is of particular concern because the time before suckling is when the calf is most susceptible. Therefore, the calving area should not be the area where (possible disease-carrying) cows have been congregated before calving.

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We had a light run of 516 cattle February 9, due to the weather. There were not enough calves to test the market. Feeder steers and heifers sold on a steady market. Cows and bulls sold \$3.00-5.00 higher.  <b>STEERS</b> 3 blk str 510 @ 175.00 1 blk str 480 @ 162.00 16 mix str 562 @ 160.00 1 blk str 575 @ 143.00 2 blk str 600 @ 141.00 4 blk/red str 623 @ 137.00 6 blk/bwf str 668 @ 135.00 1 blk str 620 @ 132.00 2 blk str 728 @ 130.50 60 x-bred str 898 @ 130.00 60 mix str 915 @ 127.00	61 mix str 961 @ 125.75 59 mix str 902 @ 124.00  <b>HEIFERS</b> 2 blk/red hfrs 438 @ 141.00 1 blk hfr 235 @ 137.00 1 blk hfr 585 @ 137.00 1 blk hfr 435 @ 135.00 1 blk hfr 550 @ 133.00 3 blk/bwf hfrs 628 @ 132.00 61 mix hfrs 746 @ 126.00 59 blk hfrs 855 @ 124.00	65 blk/red hfrs 845 @ 123.00  <b>COWS</b> 1 blk cow 1480 @ 71.00 1 blk cow 1565 @ 67.00 1 blk cow 1215 @ 65.50 1 wf cow 1180 @ 61.50 1 red cow 1210 @ 60.50 1 blk cow 1230 @ 60.00 1 bwf cow 1010 @ 55.50 1 red cow 1220 @ 55.00 1 bwf cow 1205 @ 54.50 1 blk cow 1160 @ 52.50	<b>BRED FEMALES &amp; PAIRS</b> 3 red cows @ 1000.00 1 blk cow @ 975.00 1 bwf cow/cf @ 960.00 1 bwf hfr @ 925.00 1 bwf cow/cf @ 850.00  <b>BULLS</b> 1 blk bull 1810 @ 80.00 1 blk bull 1680 @ 75.00 1 blk bull 1815 @ 72.00	<b>CONSIGNMENTS FOR FEBRUARY 16:</b> • 60 black steers & heifers, 750-900 lbs. • 65 SimAngus steers, 800-850 lbs., Stuewe Ranch • 65 black steers, 825-850 lbs. • 118 black steers, 875-900 lbs. Pending Due to Weather Forecast. If in doubt, please call or check our website.	<b>CONSIGNMENTS FOR FEBRUARY 23:</b> • 160 black steers & heifers, 700-850 lbs. • 140 Angus steers & heifers, 750-900 lbs.
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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

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