released the following statement in response to the United States Department of Agriculture (USDA) securing contracts worth \$27.1 million to provide foot-and-mouth disease (FMD) vaccines for the National Animal Vaccine and Veterinary Countermeasures Bank (NAVVCB) that was created in the 2018 Farm Bill at the request of

"We are pleased to see USDA is moving forward with creating a supply of FMD vaccines in the NAVVCB to ensure ranchers and farmers have timely access to a

such as FMD. This is a promising first step forward to begin the work authorized in the 2018 Farm Bill; but, more action is needed to strengthen this newly created vaccine bank," said NCBA executive director of government affairs Allison Rivera. "NCBA will continue to work with USDA, Congress, and other stakeholders to secure future funding, making certain that the entire cattle industry is better prepared for a possible outbreak of FMD."

NAVVCB is one component of a three-part program

support animal disease prevention and management. This new program adds to the nation's level of protection against this devastating disease. In the event of an outbreak, animal health officials would decide when, where and how to use the available vaccine based on the circumstances of the outbreak. NCBA and other members of the animal agriculture community strongly lobbied Congress to include the formation of the NAVVCB in the Farm Bill to provide additional vaccine for use in livestock disease outbreaks, such as FMD.

Taking the heat: K-State leads effort to develop heat stress-resilient soybeans

On a recent summer morning, a team of

students and scientists worked quietly, row by row in a research field, thinning soybean seedling plants by hand and saving the strongest to establish a uniform plant population for varieties to be grown

in a new research project. The team, led by Kansas State University agronomy professor and soybean breeder Bill Schapaugh, is just starting work on a three-year effort to develop soybean varieties that will better withstand heat stress in the critical post-flowering stage of development. He is working with K-State associate professor and crop physiologist Krishna Jagadish

geneticists Henry Nguyen and Tri Vuong on the proj-

The work is made possible by a \$500,000 award from the U.S. Department of Agriculture's National Institute of Food and Agriculture (USDA-NIFA).

"The long-term goal of this research is to strengthen the development of commercial sovbean varieties with improved tolerance to heat stress," Schapaugh said, adding that the specific goal is to identify and characterize unique sources of post-flowering heat tolerance in existing soybean germplasm that can be used to develop

"We are focusing on post-flowering (the

commercial varieties.

velopment) because environmental stresses, such as heat, tend to have the largest impact on seed yield and seed composition during this period of growth," Schapaugh said.

High daytime temperatures during that stage of sovbean development can negatively impact yield - or, how much grain a plant produces – and grain quality, which ultimately reduces what farmers have available to sell after harvest

That's particularly important because climate models are projecting that U.S. soybean growing regions will not only experience increased mean seasonal high temperatures, but also frequent episodes

of high daytime temperature stress, Schapaugh

The researchers are laving the groundwork for developing new cultivars that can tolerate heat stress better than those currently available by accomplishing three objectives, including

Observing different cultivars' yield and composition changes during induced heat stress through a process called phenotyp-Mapping genomic re-

taining yield, seed quality and composition under post-flowering heat stress. Validating haplotypes

gions responsible for sus-

DNA characteristics that tend to be inherited together with the goal of strengthening breeding efforts to improve soybean resilience under post-flowering heat stress in the fu-

To control how much heat and other environmental factors some of the plants are subjected to, the team will grow part of the sovbean accessions in eight large tents. Others will be grown outdoors.

The heat tents are unique, custom designed structures placed over the plots that are covered with a clear polyethylene film, Schapaugh said. They resemble a clear wall tent. Air inside the tents will be heated from the sunlight and sensors, and electrically controlled panels regulate the temperature within the tents during the

not been used routinely in soybean research but have been used in a similar manner by Jagadish's team to examine heat tol-

erance in wheat. As part of the research team, K-State and MU undergraduate and graduate students, plus a post-doctoral researcher are enhancing their own education and research skills techniques, Scha-

paugh said. In the end, he added, consumers will benefit from a more consistent supply and quality of soybean products.

More information about K-State's Department of Agronomy is available online or by calling 785-532-

in the garden? K-State expert shares helpful tips **Problems**

Most folks won't complain about pretty flowers in their garden... except when they're expecting

fruit or vegetables instead. Kansas State University horticulture expert Ward

Upham said it is common this time of year for food plants to bloom without setting fruit.

"There are several possible reasons for this," he said. "One of those is that the plant has been over-fertilized. Too much nitrogen causes the plant to emphasize vegetative growth, often to the detriment of fruit production."

Upham said the prob-

lem of too much fertilizer is commonly seen with tomatoes. The plant may look healthy, but it is has no flowers that produce

He added that nighttime temperatures below 50 degrees Fahrenheit or above 75 F, or daytime temperatures above 95 F with hot, dry winds can also keep plants from producing fruit. Cherry tomatoes are often more forgiving of high temperatures than the larger slicers.

For vine crops, such as cucumbers, watermelon, squash and muskmelons. "look for the presence of bees visiting those plants," Upham said. The early flowers on

those plants are usually all male, he said, though the production of male and female flowers becomes more balanced as time passes. "You can easily tell the difference between the two because only the female flower has a tiny fruit behind the blossom," Upham said.

"If you have both male and female flowers, have not over-fertilized and are

still having a problem, make sure you have pollinators working in your garden," he said.

"If you don't see any bees, try hand-pollinating several flowers by using a painter's brush to transfer pollen from the anther of the male flower to the stigma of the female flower. If you get fruit on only those flowers you pollinated, then you need more pollinators."

For those who use insecticides on vine crops, Upham warned against using too much, which can kill the pollinators. "If you must use an insecticide," he said, "spray near dusk when the flowers have

Upham and his colleagues in K-State's Department of Horticulture and Natural Resources produce a weekly Horticultural Newsletter with tips for keeping yards healthy and beautiful year-round. The newsletter is available to view online; interested persons can also subscribe to have it delivered by email each

Interested persons can also send their yard-related questions to Upham at wupham@ksu.edu.



ATTENTION 4H & FFA MEMBERS:

being done this year. If you completed a project in any category, regardless of whether you were able to take it to the fair, please send us a photo to publish in the **Grass & Grain Youth Project Showcase!**

Include your name, age, county, and 4-H club you belong to, as well as a brief description of the project. Photos will all be published throughout the summer.

Email your photos and information to the editor at gandgeditor@agpress.com



bred-and-owned bull at the 2020 Northeast Kansas Jr Angus Show, June 20 in Effingham. Ellie Laflin, Olsburg, owns the October 2019 son of BUBS Southern Charm AA31. Wyatt Durst, Washington, evaluated the 42 entries. Photo by Anne Lampe

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Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to WWW.Qrassandqrain.com & logging onto the online subscription For our sale held Friday, July 10th, the 5 Cross 755@110.00 14 blk 749@136.00 Washington Alma 1 blk

bulk of the run were unweaned Fall calves which were finding good demand according to quality and condition. Heavy feeder steers were selling at steady to \$3 higher than our last sale of June 29. Cull cows and bulls sold at fully steady prices. STEER CALVES — 375-550 LBS

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Manhattan	5 blk	504@165.50
Cassoday	10 blk	516@161.00
Havensville	3 Cross	530@156.00
Havensville	7 blk	515@149.50
STEERS	— 550-1,0 2	25 LBS.
Mavetta	9 blk	566@155.00

Mayetta	9 blk	566@155.00
Emporia	10 blk	577@151.50
Leonardville	3 blk	586@151.00
Baldwin City	9 blk	572@147.50
Blaine	4 blk	635@146.00
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Frankfort	9 blk	737@124.25
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1 Cross 1 Cross 1 Cross 1 Cross 1 blk 1 blk

1 Cross

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Grass & Grain Community Obituary

Alfred "Buzz" Heidel 1937-2020

Your fellow farmer/rancher has soared on to heavenly pastures with the healthiest of livestock and all of his family near.



Alfred "Buzz" Heidel, age 83, died on Monday July 1, 2020 at his residence following a brief illness.

He was born on April 30, 1937 in rural Manhattan, Kansas, the son of Richard Rudolph & Clara Cecelia (Moske) Heidel, the young-

est of 7 children. Buzz graduated from Luckey High School with the class of 1956. He was a lifetime farmer and rancher in the Ashland Bottoms community near Manhattan.

Buzz had a strong love and passion for the land and the livestock he cared for, and for the wildlife that surrounded him. When time allowed Buzz enjoyed hunting with his brother Sam and many close friends. He was an avid and successful tracker and wildlife rustler. He didn't have any interest in shooting but loved to participate in the hunt. Buzz also was fortunate to have worked together with his family, and especially his brothers, for his whole life. They were a ranching and farming dynasty that were devoted to working the land and cattle. Buzz had a true passion for Allis Chalmers tractors and Hereford cattle. All part of the country life he lived and loved. He was a true, dear friend to many and enjoyed making people laugh and smile.

He was preceded in death by his parents; his siblings: Bernard (1951), Arthur "Glenn" (2004), Edwin (2005), Wayne (2011), Dennis "Sam" (2014) and Veronica Barry (2014). Survivors include his special lady: Dianna Fay and numerous nieces, nephews, cousins and many friends.

Mass of Christian Burial was held Tuesday July 7, 2020 at the Seven Dolors Catholic Church, Manhattan, with Father Kerry Ninemire officiating. Interment followed in the St. Patrick's Catholic Cemetery at Lake Elbo, Manhattan.

Memorial contributions may be made to the Good Shepherd Homecare & Hospice in care of the Yorgensen-Meloan-Londeen Funeral Home, 1616 Poyntz Avenue, Man-

Online condolences may be left for the family through the funeral home website at: www.ymlfuneralhome.com



Place a classified ad or subscribe online at grassandgrain.com

FARM AUCTION

SATURDAY, JULY 25, 2020 — 10:00 AM At the farm, 396 Yankee Road - BARNES, KANSAS 1 1/2 miles west of Barnes, then 6 miles south on Yankee Road.

VEHICLES, MACHINERY & EQUIPMENT 2003 Chevrolet 2500 pickup, 6L V8, 145,000 miles, 4x4, ext cab, long bed, good tires, black; 1984 Ford LN 700 truck, V-8, gas, 5&2, 18 ft bed, hoist, 52 in sides, rollover tarp, blue cab; Titan 7 x 16 bumper hitch stock trailer; 2003 JD 567 baler, new monitor, gone through at dealer 500 bales ago; Kuhn Speedrake, SR 112 G 11, ike new; Hesston 1014 hydroswing windrower; NH 1475 windrower reel shaft broken; JD 400 grain cart; Land Pride 3 pt 7 ft shredder GP Solid Stand 13, 21x7.5 end wheel drill; IHC 490, 21 ft tandem disc; Case IH 4600, 24 ft field cultivator w/harrow; White 548, 4x16-18 semi-mtd plow; Case IH 900 Cyclo Air 6-30 planter; self propelled weed wiper; Oliver 365, 3-14 mtd plow; IHC 37 twine baler; JD 14 ft plow disc; Gleaner L2 combine, not running; Glencoe 12 ft Soil Savor; tailgate auger; Tumblebug big bale carrier; Worksaver pto post auger; 4 wheel running gears; pickup bed trailer; trash pump w/B&S engine; 500 gal fuel tank w/pump; 300 gal 3 pt sprayer; Stampede Steel cattle squeeze chute, heavy built, used very little; bale feeders; 70 big round bales alfalfa, 80 big round bales brome/prairie; cattle panels; vet supplies; steel posts; electric fence posts; IH & AC weights; lots of scrap iron; several non running vehicles; hay trolleys; windmill heads, parts; B&S 5 hp engine; IHC Model LB gas engine, stuck; dump rake; other machinery. **ANTIQUES**

Chicken feeders; crocks; school desks; milk cans; meat slicer; seed cleaner; DeLavel sign; Red & White grocery sign; tool boxes; old type-writers; old console radio; lamp table; trunks; mantel clocks; Ovenproof bowls; oil cans; horse collars; household & store scales; 1922 Atlas of Marshall Co; 1957 Marshall Co Plat; other old books; household items. TERMS: Cash or good check. Announcements the day of auction take precedence

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Kansas Hay Market Report

Hav market trade slow and demand light, Alfalfa price firmed up again recently due to the pressure of the worsening drought. According to the U.S. Drought Monitor, above normal temperatures, low humidity, high winds, and below normal precipitation in recent weeks has led to continued degradation in southeastern Colorado and southwestern Kansas, introducing exceptional drought (D4) conditions into Morton, Stevens and Stanton counties. Abnormal dryness (D0) increased to 36 pct, moderate drought (D1) increased to 20.5 pct, severe drought (D2) decreased to 3 pct, extreme drought (D3) remained steady at 5 pct, and exceptional drought (D4) was introduced at 1 pct. Join agriculture leaders from across the state for the VIRTUAL Kansas Governor's Summit on Agricultural Growth. Starting July 20, we will begin with our online breakout sessions using Zoom. More information about the Summit, including a link to the registration site, can be found at https://agriculture.ks.gov/ AgGrowthStrategy/ag-summit-2020. 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. **Southwest Kansas**

Dairy alfalfa steady, grinding alfalfa and ground and delivered steady to 5.00 higher; movement slow. Alfalfa: horse, premium small squares 230.00-240.00. Dairy 1.00/point RFV, Supreme 185.00-226.00, Premium 170.00-195.00, Good 150.00-170.00. Stock or Dry Cow 155.00-165.00. Old crop, Fair/Good grinding alfalfa, 110.00-125.00; new crop grinding alfalfa 125.00-135.00 delivered, with an instance at 140.00-150.00; Old crop, ground and delivered locally to feed lots and dairies, 145.00-155.00; new crop ground and delivered 150.00-160.00. Grass Hay: large squares 100.00-110.00. Sudan: none reported. Corn stalks: none reported. Wheat straw: none reported. The week of 6/28-7/04, 7,690T of grinding alfalfa and 1,109T of dairy alfalfa was reported bought/sold.

South Central Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, al-



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Southeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered grass hay steady; movement slow. Alfalfa: horse or goat 230.00-240.00. Dairy 1.00/point RFV. Stock cow 145.00 155.00. Fair/Good grinding alfalfa, 115.00-125.00. Ground and delivered, none reported; Grass hay: Bluestem, small squares 125.00-135.00, good, mid squares 105.00 120.00, large squares, 90.00-110.00, large rounds 60.00-65.00. Brome, good, small squares 125.00-150.00, mid to large squares 100.00-110.00, New Crop large squares 110.00-120.00, large rounds new crop,75.00-85.00. Wheat Straw: mid and large squares 60.00-70.00, large rounds 55.00-65.00. The week of 6/28-7/04, 1,245T of grass hay was reported bought/sold. **Northwest Kansas**

Dairy alfalfa, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: Horse or goat, 205.00-215.00. Dairy, Premium/Supreme 1.00/point RFV. Stock cow, fair/good none reported. Fair/good grinding alfalfa, 95.00-105.00. Ground and delivered locally to feedlots and dairies, 125.00-135.00. Sudan, large rounds 55.00-

North Central-Northeast Kansas

Dairy alfalfa, grass hay steady; grinding alfalfa, ground/delivered steady to 5.00 higher; movement slow Alfalfa: horse, premium small squares new crop, 9.00/ bale. Old crop dairy 1.00/point RFV, Supreme 185.00 225.00, Premium 170.00-195.00, Good 150.00-170.00. New crop dairy 1.00-1.05/pt. Stock Cow, none reported. Fair/ good, grinding alfalfa, 105.00-115.00. Ground and delivered 120.00-135.00. Grass hay: Bluestem, small squares 6.00-7.00/bale, mid to large squares 80.00-90.00, large rounds 55.00-65.00. Brome, small squares new crop 8.50/ bale, large squares 90.00-100.00, large rounds Old crop 55.00-65.00, New crop 75.00-85.00; Sudan, large rounds 55.00-65.00. Wheat Straw: small squares 5.00-6.00/bale delivered, mid to large squares 95.00-105.00, large rounds 40.00/bale. The week of 6/27-7/04, 792T of grinding alfalfa and 1,050T of dairy alfalfa was reported bought/sold.

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

*RFV calculated using the Wis/Minn formula.

**TDN calculated using the Western formula. Quan titative factors are approximate, and many factors can affect feeding value. Values based on 100% dry matter (TDN showing both 100% & 90%). Guidelines are to be used with visual appearance and intent of sale (usage).

Source: Kansas Department of Agriculture - Manhattan, Kansas. Kim Nettleton 785-564-6709

Posted to the Internet: www.ams.usda.gov/mnreports/

 $DC_GR310.txt$

Boehringer Ingelheim awarded contract for **FMD** vaccine bank

Boehringer Ingelheim (BI) a contract to help supply a vaccine bank that will protect U.S. livestock from foot-and-mouth

The contract calls for BI to create and maintain

a strategic reserve of frozen vaccine antigen concentrate that the company could quickly formulate into a vaccine for FMD in the event of an outbreak in the United States.

The National Animal Vaccine and Veterinary Countermeasures known as the U.S. vac cine bank, will let the U.S stockpile veterinary vaccines and other materials to use in the event of an outbreak of a high-impact

foreign animal disease. FMD is a highly con tagious viral disease that can affect cattle, pigs, sheep, goats and other animals with divided hooves. It does not affect people. The U.S. eradicated FMD in 1929, but an outbreak could devastate the livestock industry and, consequently, our national food

"Boehringer Ingelheim has proudly supported the U.S. livestock industry for decades as a leader in animal vaccine technology," said Everett Hoekstra, president of Boehringer Ingelheim Animal Health USA Inc.

supply, if left unchecked.

SATURDAY, JULY 18, 2020

LOCATION: K-14 Auction Center, 10919'S K14 Hwy - HUTCHINSON, KS 67501 Blue-Point Tools; Open and Boxend







Wrenches; Snap-on Floor Jack; Del-ta Table Saws; Porter Cable Planer; Snap-on Specialty Tools; Snap-on Drill Bits and Wrenches; Miller Welder; Many More Quality Hand Tools: Airens Snow Blower; Craftsman Tiller; Living Room and Bedroom Suites; Grandfather and Mantel Clocks; Dining Room Table and Chairs; Large

Selection of Furniture; Antiques; Household and Collectibles; many more quality items.

(like new); Large Selection of Snap-on, Mac, NOTE: This is only a partial listing so go to auctionzip.com for more photos as we will be updating each day as we open hundreds of boxes and totes. Items will be displayed inside a large building so plan to spend a good day with us. This is not our regular consignment auc-

tion, as it will be held on Aug 8th, with check in dates starting on the 3rd of Aug. *Thanks Morri*s

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The U.S. Department of Agriculture's Farm Service Agency (FSA) has announced that the May 2020 income over feed cost margin was \$5.37 per hundredweight, triggering the third payment of 2020 for dairy producers who purchased the appropriate level of coverage under the Dairy Margin Coverage (DMC) program.

"This payment comes at a critical time for many dairy producers," said FSA administrator Richard Fordyce 'DMC has proved to be a worthwhile risk management tool, providing dairy producers with much-needed finan cial support when markets are most volatile."

To date, FSA has issued more than \$176 million in program benefits to dairy producers who purchased DMC coverage for 2020.

risk management program that offers protection to dairy producers when the difference between the all-milk price and the average feed price (the margin) falls below a certain dollar amount selected by the producer. Over 13,000 operations enrolled in the program for the 2020

Although DMC enrollment for 2020 coverage has closed, signup for 2021 coverage will begin October 13 and will run through December 11, 2020.

All USDA Service Centers are open for business. including some that are open to visitors to conduct business in person by appointment only. All Service Center visitors wishing to conduct business with the FSA, Natural Resources Conservation Service, or any other 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 may also be required to wear a face covering during their appointment. Field work will continue with appropriate social distancing. Our program delivery staff will be in the office, and they will be working with our producers in office, by phone, and using online tools. More information can be found at farmers.gov/coronavirus.

For more information, visit farmers.gov DMC webpage or contact your local USDA Service Center. To locate your local FSA office, visit farmers.gov/service-cen-

Authorized by the 2018 Farm Bill, DMC is a voluntary Service Center agency should call ahead and schedule ting Arrangements receiving attention Alternative Market

By Elliott Dennis, University of Nebraska-

In recent weeks there has been increased attention given to the role of Alternative Marketing Arrangements in the fed-cattle market. The use of these AMAs varies greatly by region, and some of the more common AMAs used include grid and formula pricing. AMAs pay producers premiums and discounts from a "base price" based on a combination of the vield grade, quality grade and weight of dressed cattle. It is common for the negotiated cash price to serve as the "base price" for AMAs using either the geographical region or the five-mar-

The decline in negotiated cash trade has varied by geographical region, causing some market participants to question if the "base price" truly reflects the local demand for cattle. For example, cattle formula-priced in Texas using the five-market average could, in certain weeks, be heavily weighted toward Nebraska and Iowa prices.

While the "50-14" rule would increase negotiated cash transactions, helping in price discovery in a given week, it is unlikely to affect the underlying fed cattle market supply and demand conditions to effectively increase cash price levels.

However, the current surrounding concern AMAs has more to do with lower cash prices received by producers due to market reactions to COVID-19 than the role of AMAs role in thinly traded markets. In an effort to effectively raise producer-received prices, market participants have introduced a series of price and supply control proposals. The U.S. Senate, led by Senator Chuck Grasslev (R-Iowa) and Senator Jon Tester (D-Mont.), has proposed a law — commonly referred to as the "50-14" rule — that would mandate large-scale packers to of total cattle purchased in the cash market each week. The hope is that by increasing cash trade transactions it will solve issues with price discovery, effectively increasing negotiated cash prices.

Supply of fed cattle and demand for wholesale beef determine the price of fed cattle. In order to increase fed-cattle prices, the "50-14" rule would either need to reduce the supply of fed cattle or increase the demand for wholesale beef. While the rule would increase negotiated cash transactions, helping in price discovery in a given week, it is unlikely to affect the underlying fed-cattle market supply and demand conditions to effectively increase cash price levels.

Two other efforts to increase cash transactions in hopes of increasing cash prices include "bid-thegrid" through the Fed Cattle Exchange platform and the "set aside" program (similar to the one used in Canada). Many details lack and questions remain regarding the "bid-the-grid" process and potential efficacy in increasing regional cash trade. Its aim is to increase prices by having each producer negotiate the grid's starting base price. While this may help in price discovery (i.e., arriving at a transaction price for a given quality

and quantity of a product at a given time and place), this method once again falls short of fundamentally changing price determination. The "set aside" pro-

ing the market each week

gram aims to control the number of cattle enter-

that can be processed. Producers would be paid a set amount per day to compensate for the cost of feeding. Who would be willing to pay for the program, as well as program start and end dates, may help reduce the backlog due to packing plant closures, as cattle will be processed quickly as soon as foodservice demand in-

So what has been hap pening to cattle transactions (e.g., negotiated cash, forward contract, formula and negotiated grid) during COVID-19? Looking at all cattle in the United States, formula transactions have largely been replaced by negotiated grid. For example, in April formula trade was 74% of total weekly transactions and negotiated grid was 4%. In May formula trade fell to 48% and negotiated grid was 20%. The past few weeks the number of cattle sold on formula has steadily increased, while the number of cattle sold on the negotiated grid has

There has been little change in the negotiated cash and forward contract trade, on average for the United States, since Jan. 1, 2020. As in most cases there were significant differences across geographical regions. Formula trade fell in the Texas-Oklahoma-New Mexico region, but not below five-year historical levels. This was offset by trade in the negotiated grid.

Formula-priced

tle fell from 95% of cattle priced in April to 30% in May. This was replaced entirely by negotiated-grid-priced cattle. In both the Texas-Oklahoma-New Mexico and Kansas regions, there was little movement in the negotiated price. Pricing in Nebraska has been somewhat more volatile. Negotiated cash fell to a historic low of 2% of transactions in May and entirely offset by increased formula trade. Negotiated grid and forward contract transactions vere historically constant Since negotiated cat-

tle can be sold either live or dressed, final cash payment is always determined by quantity (pounds of animal/carcass) times negotiated price. Formula- or grid-priced cattle rely upon a base price plus discounts or premiums for cattle quality or characteristics. Premiums for quality are paid for carcasses grading USDA Prime or Certified Angus Beef® (CAB®) brand or production practices such as "All Natural" or Non-Hormone Treated Cattle (NHTC).

Choice is the base quality grade, and discounts are applied to carcasses grading Select. Since Jan. 1, 2020, NHTC and "All Natural" premiums have remained constant, CAB premiums have increased, Prime premiums have decreased, and Select discounts have increased. The difference between Choice and Select, commonly referred to as the Choice-Select spread, is largely consistent with historical patterns of widening during the first

The deterioration in the premium for Prime and the sharp increase in CAB are abnormal. One reason for the deterioration in the premium for Prime product is likely due to the reduced demand for highend steaks at restaurants from shelter-in-place orders accompanied by an increase in supply due to fed cattle being on feed longer as packing plants were closed.

Grids or formulas also require cattle carcasses to be within a given weight range, generally between 600 pounds and 900 lb. on a dressed basis. Cattle that fall outside of these limits are discounted. Cattle slaughter weight has increased as packing plants closed, causing reduced packing capacity and cattle to be on feed longer than anticipated. For example, the dressed weight for steers and heifers has increased by about ten lbs. at a time when dressed weight historically de-

So how have weight

discounts changed since January? Weight discounts were constant for all weights prior to Jan. 1, 2020. After that, the discount for cattle carcasses more than 1,050 lb. has decreased. In other words. packers discounted heavy carcasses less than in months and years prior. All other weight dis-

counts have remained unchanged. Seen in the light of historical discounts, this change in grid pricing for heavy cattle is unprecedented. For context, cattle are usually harvested between 1.200 lb. and 1.350 lb. on a live-weight basis. Given a 63% dressing percentage, cattle are weighing upward of 1.500 lb. Assuming an average daily gain (ADG) of 3 lb. per day. cattle harvested were on feed approximately 1.5 to 2 months longer. This would align well with the timing of COVID-19 cases in pack-

The underlying makeup of cattle transactions the market is seeing is likely more due to a change in the grid premiums and discounts than a fundamental shift in producer preference for the way cattle are transacted. As the grid premiums and discounts have changed, in some cases dramatically, more cattle have once again shifted away from negotiated grid towards formula.

ing plants.

As the United States comes out of the COVID-19 shelter-in-place restrictions, it is likely that the share of cattle transactions will normalize to historical levels. Fed-cattle cash prices are likely to



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While their long-term implications are unknown, creating new transaction prices is unlikely to fundamentally change price determination, potentially causing increased costs and reducing profitability for the beef complex. Consistent with the economic theory of derived demand, the economic burden of these policies is likely to be largely carried by the cow-calf industry.

AUCTION REMINDER

SATURDAY, JULY 18, 2020 — 9:00 AM Located at the farm from I-70 exit 275 at ABILENE, KS 6 mi, North on Hwy 15 to stop sign, continue 4 mi. North on paved Hawk Rd. to 3400 Ave. then East 1 1/2 mi; OR FROM CLAY CENTER, KS go 20 mi. South on Hwy. 15 to

mile marker 187 then 2 1/2 mi. West to 1118 3400 Ave.. South side of road. Antique & Contemporary Furniture, Organ & Piano, Clocks, Glassware, Antiques & Household Goods & More! CLERK: Shirley Riek, 526 Fredrick, Clay Center, Ks. 67432 GARY & DIXIE BERGMEIER, SELLERS (785) 479-6881

See last week's Grass & Grain for listings & Go to kretzauctions.com or kansasauctions.net for Pictures & Any Updates or Additional Information

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

AUCTION

SATURDAY, JULY 25, 2020 — 9:00 AM AUCTION LOCATION: 14918 NW 20th, BENTON, KS 67017

Auction Directions: From Hwy. 254 & Butler Rd, North 5 miles on Butle Rd to NW 30th, East 1 mile on NW 30th to NW Prairie Creek, south 1 mile to auction site.

FRANK & JANET DUVANEL RETIREMENT SALE

Vehicles: '11 RAM 3500 Laramie Longhorn, Cummins, 76K mi. * '97 Freightliner FLD 112, C-10 Cat Fuller 9 spd, day cab, 497k mi. * '00 Ford 650 XLT, Super Duty, diesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain bed 102"x18", 280k mi. * '93 Latenstian 1,770 diesel, villesel, grain 1,770 diesel, grain 1,7 International 4700, diesel w/Hoswell Model 96D, bale bed, 93K mi '97 Jeep Wrangler Sport, 4.0L hard top, 124k mi. * '85 Chevrolet Scottsdale K20 diesel 104k mi. **Motorcycle:** 1983 Honda Gold Wing GL. **ATV:** Honda Foreman ES 4x4. **Trailers:** 80 Blair cattle trailer 7'x22' gooseneck * '98 TarasPort trailer 102"x50', 18" drop, spread axle * '14 RW heavy duty utility trailer, 6'8"x20' * '96 Trailman EZ Load Trailer, hyd. tilt, 8'x26', gooseneck, **Tractors, Skidsteer, Manlift:** '69 JD 4000 diesel w/JD 740 loader, 3,226 hrs. * '59 JD 830 * '60 JD 730 * '59 JD 630 * '59 JD 530 * '59 JD 430 * '59 JD 330 * Bobcat S185, cab heat & air, 1100 hrs. * JLG Man Lift 40ic. **Guns:** Remington 1100 30.06 * Winchester Model 1200 Skeet Winchester Model 1200 Ill choke * Winchester Model 12 * Remington 700 Winchester Model 37A * Pittsfield 410 single * Remington Model 572 22 * Winchester Model 94 30.30 * Remington 22 nump * Remington 100 Scottsdale K20 diesel 104k mi. Motorcycle: 1983 Honda Gold Wing Winchester Model 94 30-30 * Remington 22 pump * Remington 1760 30.06 * Winchester Model 94 3030 * Remington Model 760 30.06 * American Gun Company double barrel 410 * Smith & Wesson 357 Magnum-Revolver * Winchester Model 370 20 ga * Remington 870 Tools, Equipment & Implements: 2017 8,000lb 4 post hyd. lift * JD 317 mower * Miller 212 wire auto set * Hypo Therm 45 plasma cutter 317 mower * Miller 212 wire auto set * Hypo Therm 45 plasma cutter * Cobalt 80 gal. air compressor * Wichita tree shear * Turbo Saw tree saw * Hay Buster H-1000 * Owatona grinder mixer * JD N09 sickle mower * JD 1518 mower * hyd. working Garden City chute * Blair feed wagon Remix 12' * (2) pallet forks * power tools * (3) skid-steer buckets * panels & gates * 20 Winkel cattle panels * John Bean FMC cattle sprayer, 400 gal * skid steer tracks JD bucket * log splitter * T-posts * misc. wire, barbed & woven * Bar Si cake feeder * hand tools. **Misc:** Starcraft 17' boat * Arctic Cat 4,000, snow mobile * Kit Car 1920 Mercedes Gazelle Project Car * Walnut fire wood * 64 pcs. of 2 1/4" upset tubing, 1184'. Antiques: Matching Shipley Saddle Shipley Bridle w/ Crockett Bit & Shipley Breast Collar * Hoosier cab inet * Mobil Iron Sign Stand * 3% Buyers Premium

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SATURDAY, JULY 25, 2020 — 10:00 AM Building at the Fairgrounds -OCATION: Wm Carpenter 4-H North edge of SCOTT CITY, KANSAS

VEHICLE: 2008 GMC Envoy SUV, 55,000 miles, automatic, 4 door, clean unit. FURNITURE & APPLIANCES:

Maytag washer & dryer; Kitchen Aide refrigerator w/top freezer; Chromecraft dining table & 4 chairs; (2) occ. chairs; rose & tan color loveseat; single bed; sm. curio cabinet; reg. size bed w/ matching dresser, mirror & chest of drawers; elec. lift chair; 7.5 cu. ft. upright freezer, new

FURNITURE & APPLIANCES ANTIQUES: Flow blue plat-ter; Oak rocking chair; (2) Oak straight chairs; Estabon elec. guitar: kerosene lamps; old clock green Depression juicer; Royal Staffordshire china, made in England, 8-pl. setting; wooden airplane; Globe; decanter bottles; Coca Cola lighter; pocket knives; Gold rings; sev. old Hohner harmonicas; cannon ball; 8-12-20 gal. crocks; Dazey butter churn; scythe; copper wash boiler; cast iron toys; Farm toys, 1/16th scale; Monterray Westernware lg. pitcher, dinner plates & 4 cups; quilts. **GUNS:** H&R 922 revolver, 22 cal. hex barrel; Colt PT Mfg. US Army Model 1911 pistol, 45 cal., #314025, w/holster; Remington US Army Model 1911 pistol, 45 cal., #2245648, orig. box; Armin-ius revolver HW7, 22 cal., made in Germany; Riverside 12 ga. break open shotgun; rifle w/scope, .222 cal.; M1 Army rifle; Marlin 12 ga. pump shotgun; Stevens crack shot rifle, 22 cal.; Springfield US Model 1878 rifle; Ross 1905 Military rifle w/bayonet; Remington Model 1100 shotgun, 12 ga.; Remington Model 700 rifle w/

scope, .243-win cal.; Hawkins 45 cal. black powder rifle kit; Daisy BB gun; binoculars; Ig selection of ammo & reloading items. HOUSEHOLD: Ventura elec. mo-

bility scooter; sm. safe; sm. apt. size fridge; treadmill; window refrigerated AC; microwave ovens; lamps; Bissel carpet cleaner; JC Penny sewing machine: sm. kitchen appliances; pots & pans; Corelle ware; Phantom vacuum sweeper; shelving units; metal file cabinet; Brother printer/copier; office supplies; Sansui 32" LCD TV; stereo/CD player; bedding & towels. COINS & STAMPS: Mercury

dimes; Buffalo nickels; Roosevelt dimes; Indian head pennies; Washington quarters; Lib-erty, Franklin & Kennedy halves; Morgan & Peace dollars; foreign paper money; (2) Confederate States of America \$100 bills; tokens; (2) 1904 \$20 Gold pcs, MS63 & MS65; Walking Liberty halves; lots of Silver Eagles; Pres idential Dollar coins; mint & proof sets; (5) Gold miniature 1886 coins; lots of coin sets & books; proof coins; 1892 Dime; Many other coins & coin sets; lg. stamp collection, many books w/1st day covers, sheets of stamps; stamp albums: The Princess Diana col lector's book of stamps; (This is a very neat stamp collection, some different ones, stamps & coins coming from Ritter Estate).

SHOP ITEMS: (3) shop vacs;

gas weed eater; shovels, rakes & hoes; Schumacker battery charger; hand tools, wrenches, sockets; New BBQ grill; bicycle

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Burdick, 1 blk 1240@58.50 Burdick, 1 blk 1290@58.50 Wilsey, 1 blk 1120@57.50 Cncl Grve, 1 blk Wilsey, 1 blk Marion, 1 blk Marion, 1 blk Ramona, 1 red Wilsey, 1 blk Lincolnville, 1 blk Hillsboro, 1 blk Burdick, 1 blk 1680@87.50 Burdick, 1 Brahman 1760@86.00

Florence, 1 blk

1155@57.50 1225@57.00 1100@56.50 1090@56.50 1370@56.50 1290@55.50 1250@54.00 2320@97.50

1385@80.50

Cncl Grve, 1 red 1520@70.00 Wichita, 1 blk Lincolnville, 1 blk 1715@60.50 **STEERS** Hillsboro, 19 blk 720@133.25 Lincolnville, 58 mix 887@125.25 **HEIFERS** Cncl Grve, 14 mix 621@136.00 Hillsboro, 4 blk 468@135.50 Hillsboro, 6 blk 658@133.25

702@131.50

677@127.00

784@123.50

Burdick, 1 blk 285@510.00 EARLY CONSIGNMENTS FOR JULY 15 32 mostly blk strs, off grass, 775-825 lbs.
 12 mostly blk strs, off grass, 775-825 lbs.

BULL CALVES - BY THE HEAD

Cncl Grve, 46 mix

Burdick, 3 blk

Wilsey, 25 mix

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EARLY CONSIGNMENTS FOR JULY 22 72 mostly blk hfrs, off grass, 725-775 lbs.

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EARLY CONSIGNMENTS FOR JULY 29

50 Char X strs & hfrs, home raised, shots, • 170 blk strs & hfrs, home raised, shots, 500-700 lbs. 500-750 lbs.

- 500-700 lbs.
- 50 mostly blk strs & hfrs, home raised, shots, 500-750 lbs.
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785.457.3534 Winkel NPPC supports Senate bill to bolster hog farmers

ly supports the Responding to Epidemic Losses and Investing in the Economic Future (RELIEF) for Producers Act of 2020, introduced last week by Sens. Jim Inhofe (R-Okla.), Richard Burr (R-N.C.), Joni Ernst (R-Iowa), Chuck Grasslev (R-Iowa), and Thom Tillis (R-N.C.).

The bill would:

Compensate hog and poultry producers who are forced to euthanize or donate animals that can't be processed into the food supply due to COVID-related packing plant capacity reductions;

Increase funding for animal health surveillance and laboratories, which have appropriately assisted and shared resources with their public health partners; and

Revise the Commodity Credit Corporation charter so a pandemic-driven national emergency qualifies for

"We thank Senators Inhofe, Burr, Ernst, Grassley and Tillis for their support of U.S. hog farmers who urgently crisis," said NPPC president Howard "A.V." Roth, a producer from Wauzeka, Wisconsin. "While plant capacity has improved, millions of hogs remain backed up on farms due to the COVID-created bottleneck, one that could have a lasting impact on hog farmers. The RELIEF for Producers Act provides a much-needed lifeline to thousands of farmers who could otherwise go out of business, leading to consolidation and contraction of the U.S. pork industry. We urge Congress to work together to quickly pass much-needed legislation addressing this

"Farmers and ranchers across the country are working to operate in these unprecedented times," said Inhofe. "When I spoke with members of the Oklahoma Pork Council in May, we discussed the strain COVID-19 has put on their production cycles and their need for relief moving forward. That is why I am glad to introduce the Relief for Producers Act to provide a framework for proCOVID-19 pandemic. This legislation will help livestock and poultry farmers more easily and efficiently navigate a path forward as we battle this crisis. I want to thank the National Pork Producers Council and the Oklahoma Pork Council for their input on this bill and their continued collaboration to ensure Oklahoma pork producers interests are advanced in Congress.

The impact of COVID-19 has caused hog values to plummet, creating a financial disaster for pork producers nationwide who face a collective \$5 billion loss for the remainder of the year. Additionally, U.S. pork producers face staggering costs for the millions of hogs that may be euthanized as pigs back up on farms due to ongoing bottlenecks in the pork supply chain. For more information on U.S. pork industry's response to COVID-related challenges, please visit http://nppc.org/ issues/issue/your-food-is-our-priority/.

USCA, NFU, and others request hearing on Livestock Reporting Rule

Recently, the United States Cattlemen's Association (USCA), National Farmers Union (NFU), and eleven other organizations sent a letter to the Senate Agriculture Committee requesting a hearing on livestock mandatory price reporting reauthorization.

The Livestock Mandatory Reporting rule, established in 1999, mandates price reporting for cattle, boxed beef swine, and lamb. It is reauthorized every five years, with the current program expiring on September 30, 2020. This year represents an opportunity to make meaningful change to the program to increase transparency and true price dis-

According to a 2019 Congressional Research Service report, "A common concern among stakeholders is the low volume of negotiated purchases and a parallel trend toward increased formula purchases or other marketing arrangements.

"Other concerns are about confidentiality and a lack of clarity on how transactions are categorized in reports, with some stakeholders advocating for the inclusion of more

details about transactions, such as premium levelsespecially as the market changes—and reporting on the number of livestock committed to packers."

USCA and others strongly urge the Senate Agriculture Committee to examine all available solutions to the current market factors depressing livestock prices and the increasing consolidation facing the U.S. cattle industry. As stated in our

letter, we are running out of time to work towards a tenable reauthorization of the program. The U.S. livestock industry requires bold leadership to realign the marketplace with its fundamentals, and that starts with modernizing the Livestock Mandatory Reporting program.

Organizations ing-on to the letter include: Independent Beef Association of North Dakota, Independent Cattlemen's Association of Nebraska, Independent Cattlemen's Association of Texas, Kansas Cattlemen's Association, Marias River Livestock Association, Montana Cattlemen's Association, Montana Farmers Union, National Farmers Union, North Dakota Farmers Union, Rocky Mountain Farmers Union, South Dakota Farmers Union, and Women Involved in Farm Economics.



Laflins Galaxie 8404 won grand champion bredand-owned female at the 2020 Northeast Kansas Jr Angus Show, June 20 in Effingham. Tate Laflin, Olsburg, owns the September 2018 daughter of LD Capitalist 316. Wyatt Durst, Washington, evaluated the 42 entries. Photo by Anne Lampe



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COWS-HIGH YIELDING	\$147.00-\$131.00	600-700#
1880#-1370# \$79.00-\$62.00	\$137.00-\$120.00	700-800#
COWS-LGT WT & LOW YIELDING	\$122.00-\$112.00	800-900#
1400#-950# \$60.00-\$46.00	N/A	900-1,000#
BULLS:	EIFERS	
2245#-1235# \$95.00-\$66.00	\$153.00-\$139.00	300-400#
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Don't sacrifice safety for social media photo opportunities

Sharing on social media has increased during the coronavirus pandemic as we try to stay connected while spending more time at home. For farm families, photos and videos of children in the home environment can include hazardous work and play situations.

"The images we share can, unintentionally, perpetuate unsafe farm practices," says Scott Heiberger, communications manager with the National Children's Center for

Rural and Agricultural Health and Safety, Marshfield Clinic Research Institute. "Photos and videos are often used as attention-getters, but sometimes 'cute' is unsafe."

About every three days, a child dies in an agriculture-related incident. At least 33 children are injured each day.

Images of children performing work that is unsafe for their age and ability level, often involving machinery and large animals, have been commedia. It's not just working children who are exposed to hazards. Of all children injured on farms, more than half are not engaged in work at the time of the injury; they are merely in the worksite. Of those non-working youth, most are younger than ten.

"It's probably no sur-

"It's probably no surprise, then, that many of the unsafe situations we're seeing on social media involve very young children," Heiberger says. "One photo showed two

little boys climbing on the lift arm of a skidsteer. Another photo showed five small children and the caption, 'How many kids can you fit on a combine tire? LOL.'

"If we show the agricultural worksite as a playground, we're asking for trouble."

Following the old adage that "a picture is worth a thousand words," the Childhood Agricultural Safety Network (CASN) created Media Guidelines for Agricultural Safety, a list of do's and don'ts aimed at keeping children safe and not perpetuating dangerous farm practices. The guidelines, also available in Spanish and French, were updated recently to include social media.

Examples include:

Don't show individuals riding on wagons, in the back of pickup trucks or as extra riders on tractors or ATVs.

Don't show children riding on adults' laps on ATVs, or lawn tractors/riding mowers.

Don't show children in proximity to large animals unless appropriate barriers are evident.

Do show children doing age-appropriate chores under adult supervision and wearing protective equipment.

The guidelines were

originally introduced in

2010 with feedback from

media professionals, as

well as communicators from CASN member organizations.

"Following these guidelines can help each of us be confident that we are

be confident that we are doing our part for farm safety," Heiberger says. Child injury prevention

resources
The National Children's

ss Center is the national leader in developing and g sharing knowledge and intervention strategies for childhood agriculture safety and health. Among its resources:

The Cultivate Safety

The Cultivate Safety website provides easy access to agricultural safety information and resources for farmers, ranchers, supervisors and media. The website includes sections on Work, Play, Accidents, Parents, Online Tools and a Resource Library with access to hundreds of free safety and health resources.

es.
The Childhood Agricultural Safety Network is a coalition of organizations that work together to help keep children safe on the farm. These organizations represent the agricultural community, child injury prevention, minority-serving associations and relat-

ed industry organizations.
Safe Play: Creating Safe
Play Areas on Farms provides the first comprehensive guide for designing
and building an outdoor
safe play area on a farm.

Integrating Safety into Agritourism provides checklists, virtual walkthroughs and other resources that help farm owners keep visitors safe.



Laflins Galaxie 8465 won grand champion owned female at the 2020 Northeast Kansas Jr Angus Show, June 20 in Effingham. Ellie Laflin, Olsburg, owns the September 2018 daughter of KR Casino 6243. Wyatt Durst, Washington, evaluated the 42 entries.

Photo by Anne Lan



T Bar T Ten X 49G won reserve grand champion steer at the 2020 Northeast Kansas Jr Angus Show, June 20 in Effingham. Christan Kucan, Holton, owns the February 2019 son of T Bar T T EN X 79E. Wyatt Durst, Washington, evaluated the 42 entries.

Tholo by Anne Lampe

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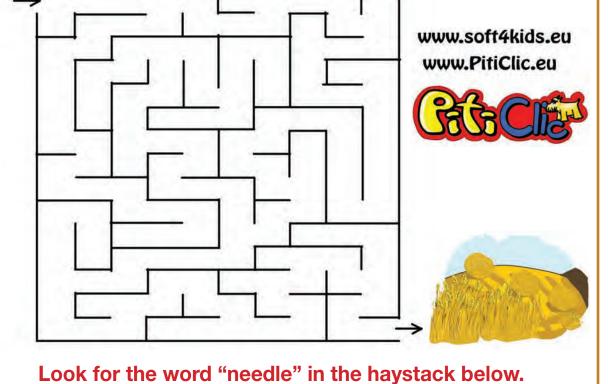
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champion owned female at the 2020 Northeast Kansas Jr Angus Show, June 20 in Effingham. Kelsey Theis, Leavenworth, owns the March 2019 daughter of SAC Conversation. Wyatt Durst, Washington, evaluated the 42 entries.

Photo by Anne Lampe

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TRACTORS, ATV, VEHICLES, MACHINERY, ENGINES & ACCESSORIES: 1047 Ford 8N 4 speed tractor, new tires all around, overhauled 4 years ago; 1948 Oliver 88 Fleetline row crop tractor on rubber, NF, good tin, new carburetor has been ordered; Polaris 250 4x2 ATV, older but has original tires; 1955 International Travelall all wheel drive wrecker truck w/good Holmes wrecker bed, no rust, good rubber, engine overhauled 5 years ago; 16' bumper hitch car hauler w/12,000# winch, 5,000# axles, folding exp. metal ramp, good rubber; 20' Hi-Lo pull type camper from Butler, OH; 1950 Chevy Deluxe; 1950 Chevy Deluxe convertible; 1950 Chevy 5 window pickup cab, good glass; 2 old Dodge trucks, complete, one with bulk gas tank; 2 wheel trailer w/old IH stepside pickup bed; old Dodge pickup bed; Ford 3pt. post hole digger w/bit; 6' 3pt. blade; IH 2B Raydex plow; springtooth; dump rake; all steel horse drawn wagon gear w/iron wheels; 880 Oliver engine, overhauled; 235 Chevrolet engine, insert bearings; IH Super C block; Allis Chalmers block for B or C; (all engines are in good shape and complete) 4 new 7.50x20 10 ply tires w/tubes & flaps; 2 rims & tires for 880 Oliver; 16.9x30" tractor tire.

SHOP TOOLS & SUPPLIES: Clausing metal lathe with many attachments, about 5' total length, made in Ottumwa, IA.: engine hoist; acetylene torch; 3 heavy bench grinders on stands; Honda power washer; Ig. sandblaster; sand hopper; Ig. stationary air compressor w/200 gallon tank; standing drill press; Craftsman 220V 10" table saw; DeWalt 12" standing radial arm saw; Craftsman 10" standing radial arm saw; Craftsman wood lathe & knives; heavy Rockwell jig saw; Master Mechanic 8.5" slide compound miter saw; 110V Craftsman table saw w/planer; 14" band saw; another standing band saw; Delta thickness sander w/saw dust vac; table sanders; vertical 1" belt sander; 2 planers; work table w/drill press; (most power tools are 220V single phase); Lincoln welder for salvage; sack scale; post vise; Best Way furniture stripping tank; 40 woodworking clamps; brand new Campbell Hausfeld finish nailer; about 25 other hand power tools; lots of wrenches, other hand tools and contents of a well-equipped

or wrenches, other hand tools and contents of a well-equipped metal & wood shop.

ANTIQUE RAILROAD ENGINE, MINIATURE DOZER, YARD ITEMS, TIN & DIMENSION LUMBER, MISC.: Fairmont stationary railroad engine w/radiator on hand truck, used by RR work crews; 1950 Struck dozer on tracks, approx. 4.5 feet long, 40" blade, very cool; motor powered walking garden cultivator on steel, unusual; 3 walking cultivators; pedal grinders; sack carts; yard windmill; lots of concrete yard art; model 70 Cub Cadet mower; Snapper riding mower; Cub Cadet 125 hydro, needs valve job; 12 hp horiz, shaft overhauled motor, fits Cub Cadet; 10hp Kohler engine, rebuildable; string mower made in Abilene; 20 long pieces of galvanized tin; (18) 10' pieces of 1x4 dimension lumber; electric treadmill; hanging pan rack; oak secretary; antique & misc furniture; glassware; lots of antique jewelry & other

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By Glenn Selk, Oklahoma State University Emeritus Extension animal scientist During hot summer months, the water needed for a cow herd often determines several other management decisions. To

best assess the adequacy of water quantities in surface water or from wells or "rural water" supplies, it first is necessary to have an idea of the amount needed for cattle of different sizes and stages of production that you may have during the summer on the ranch.

A University of Georgia publication (Rossi and Pence, revised by Dyer, 2012) lists the estimated water requirements for cattle in different production stages if the daily high temperature is 90 degrees F. They suggest that the amount of water required

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in cattle — also known as

BRD, shipping fever, or

U.S. cattle industry over

\$2 billion annually (Powell

2013). Management tech-

niques can offset much of

this cost and having a good

vaccination program can

maintain the health of a

calf all the way through

the production system. A

vaccine can cost over \$3.00

a head, and if not stored

properly that vaccine can

be rendered in effective.

Producers cannot afford to

overlook the importance

of how they store vaccine

and handle it prior to in-

should be stored under

refrigeration at 35 to 45 F

unless the nature of the

product makes storing at

a different temperature

advisable (APHIS 2007).

If vaccines are not stored

within this temperature

range, efficacy to the calf

can and will be reduced.

Killed vaccines are espe-

cially susceptible to freez-

ing temperatures. Freez

ing a killed vaccine will

alter the adjuvant or de-

livery system of a killed

vaccine. This, in turn, neg-

atively affects the immune

response to the antigen in

the vaccine. Modified live

viruses (MLV) are more sta-

ble but can be inactivated

if they are repeatedly cy-

cled above or below the re-

quired temperature range

(Gunn et al, 2013). Also,

once activated by mixing,

MLV's effective life will be

reduced to 1-2 hours and

need to be maintained at

the 35 to 45 F. This can be accomplished by only

mixing the doses that you

will use at that time and

use a cooler to maintain

temperature while work-

Researchers from the

University of Arkansas

and Idaho analyzed the

consistency of tempera-tures for different types,

ages and locations of re-

frigerators over a 48-hour

period. They found that

only 26.7% and 34.0% of

refrigerators were within

the acceptable tempera-

ture limit 95% of the time,

respectfively. Refrigera-

tor location can also ef-

fect temperature. Refrig-

erators located in barns

(35.6 F) were colder than

in mud rooms (41.72 F) and

kitchens (40.82 F). (Troxel

and Barham 2009). Tem-

perature within a 24-hour

period can also be high-

ly variable for individual

refrigerators. Troxel and Barham (2009) demonstrat-

ed some refrigerators may

take up to eight hours to

cool down to the 45 F required or temperature

ing cattle.

Biological

products

jection.

pneumonia –

Respiratory disease

– may cost the

selves and another five to ten gallons of water for their calf. Also recognize that some summer days in Oklahoma get even hotter than the 90 degrees used in the Georgia paper. On days with extreme heat, expect Can storage of vaccine affect its efficacy? By Gant Mourer, Beef

can drop below freezing and range from 28.4 F to 44.6 F, while others will remain too cold varying from

24.8 F to 35.6 F over that

period of time.

can be estimated by the

the weight of the cattle.

For instance, a lactating

cow needs two gallons of

water per 100 pounds of

body weight. A non-lactat-

ing cow or bull needs just

one gallon of water per 100

pounds of body weight. If

you are estimating water

needs for your cattle, be

honest about the weight of

the cows in the herd. Many

cows today weigh 1200

pounds or more (some a lot

more). Therefore expect

that most spring calving

cows will need at least 24

gallons per day for them-

and

production stage

Producers need to be aware of these variations in temperature so they are able to adjust refrigerator temperature as needed. Thermostats can also be very variable from unit to unit, so keeping a thermometer inside works well to monitor and to make adjustments as need. Simple indoor-outdoor thermometers work well to achieve this goal. The outdoor unit can be placed in the refrigerator while the LCD display can be hung with a magnet on the door. This allows temperature to be monitored without opening the door and many models will record the high and the low temperature in a 24-hour period so producers can adjust accordingly.

How a producer handles vaccine outside of the refrigerator is important as well. Coolers can easily be modified for syringes and are important to maintaining vaccine efficiency chute-side. Using a 1 1/2'

Summertime water needs for the cow herd the water usage to go up even further.

As fall-calving herds begin weaning the fallborn calves, producers must pay especially close attention to the water needs of the cattle. Fenceline weaning is a popular method to reduce stress on the calves during the weaning process. Fenceline weaning encourages both the cows and the calves to be congregated in a common area with a good fence between them. This means that adequate water must be available on both sides of the fence. Water tanks or troughs must be low enough for the newly weaned calves to reach easily during these hot summer days. Plan the water needs carefully before weaning in warm (hot) weather.

PVC pipe or sink tail piece purchased at any hardware store and a 1 1/2' hole saw, inserts can placed through the cooler and work well to keep syringes cool and out of light while in use. Either ice or freezer packs can be used as a coolant to maintain temperature for several hours depending on outside ambient temperature. Make sure that enough coolant is used to maintain temperature while working cattle and extra ice may be needed if working cattle all day or during warm days. It may also take up to an hour for the cooler to reach the needed 45 F, so producers may need to plan ahead prior to processing cattle. Detailed instruction on the construction of a chute-side vaccine cooler is available in Oklahoma State University Fact Sheet ANSI-3300 "Chute Side Vaccine Cooler."

These are a few simple suggestions that can help ranchers get the full value of the vaccine that they purchase. More importantly, positively affect the health of their herd, decrease sickness, and increase profit.

ESTATE AUCTION THURSDAY, JULY 30, 2020 — 5:30 PM

Due to death we will sell the following items at Public Auction at the residence located at 407 West 2nd Street in MILTONVALE, KS REAL ESTATE (sells at 6:30): Lots 7, 8 & 9, Block 39, North Addition to the City of Miltonvale, Cloud County, Kansas. The address is 407 W. 2nd St. This property includes a 1.212 square foot 2 bedroom wood frame house with crawl space. This home was built in 1915 and is situated in a nice established neighborhood. It is on a large corner lot with large trees and a nice yard. There is a 2 car garage and breezeway to the north and a 9x25' utility shed to the east. There are city lights & water and natural gas central heat & central air. This home is well located within easy walking distance to downtown and grade school. Includes refrigerator, range & dish washer. *Please attend an OPEN* HOUSE either on Saturday, July 18th from 11:00 am to 1:00 pm or Sunday, July 26th from 1:00 pm to 3:00 pm.

TERMS: 10% down day of sale. Balance due in 45 days. Seller and buyer each to pay 1/2 of escrow fees and title insurance. Seller to pay 2019 and all prior years property taxes. 2020 taxes to be prorated to the date of final settlement. 2019 taxes were \$419.30. Contract, deed and down Payment to be escrowed at Clay County Abstract & Title, 610 5th, Clay Center, KS 67432. The auction firm is working for the seller. Announcements made sale day to take precedence over printed matter. This property will be sold subject to owner's confirmation Not responsible for accidents.

PICKUPS, TRAILER, ZTR MOWER, TILLER, LOG SPLITTER (SELL AT 6:00): 1988 GMC Sierra 1500 2WD pickup, std cab, long bed, V6, ing boards, belonged to J.B. Adea miles; Ford F150 4x4 pickup, Triton 5.4L, cab, long bed, treadplate crossbed tool box, bed mat, running boards, grill guard, 249,454 miles; 16' bumper hitch utility trailer w/lights, ramps, rail, used to haul a Ford tractor; Hustler FasTrak 52" ZTR mower, 18hp Honda eng.; Troy Bilt Pony rear tine tiller w/7hp B&S; Speeco 20T pull type log splitter w/5hp B&S. GUNS, TOOLS & SHOP SUPPLIES (sell first at 5:30): Remington 12ga. & 20ga. shotguns; Remington 22 rifle; Puma 11hp upright air compressor; knife sharpener; alum. ext. ladder; Jonsred chain saw; elec. chain saw; hand tools; yard & garden tools. HOUSEHOLD GOODS & MISC.: sofa, glider, recliner, desk w/book shelf: child's rocker; bedroom sets; other BR furniture; 12' chest freezer; Maytag washer; Kenmore dryer; nice Shark upright vacuum; Corelle wear; China Garden china set; knick knacks; Bennington, Longford & other belt buckles; horse collar mirror; Barbie suitcase; various other items.

NOTE: Social distancing and masks are encouraged.

TERMS: Cash day of sale. Not responsible for accidents. CLERK: Shirley Riek, 526 Fredrick, Clay Center, Ks. 67432

MERLYN ADEE ESTATE, SELLERS

Go to kretzauctions.com or kansasauctions.net

for Pictures, Map & Any Additional Information or Updates.

Auction conducted by: Clay County Real Estate Greg Kretz, Salesman & Auctioneer: (785) 630-0701

SATURDAY, JULY 25, 2020 * MANHATTAN, KS

FIRST LOCATION BEGINNING AT 8:30 AM Kats Storage, 2151 Fort Riley Blvd, Manhattan, Kansas

(Use Caution In Construction Zone) lift; chain; wrenches; boombattery charger; Magnetos;

2 Storage units FULL of tools, engines & shop items New 1400V 3/4HP generator new in box; 1200# off road winch-new in box; Miller150

ers; shop vac; chain saw; 4" belt sander; file cabinets; shop shelving; wheelbarcarts: gas wire welder; several small generators; various small gas engines (some new); hydraulic **SECOND LOCATION APPROXIMATELY 11:00 AM**

2412 Marlatt Avenue, Manhattan, Kansas 22' bumper hitch tandem axle

car/implement trailer with dove tail (very good); Ingersoll-Rand generator on trailer (SN 125CR25076); several roto-tillers & lawn mowers; Billy Goat leaf vac; chipper/shredder; generators; gas post hole digger with 2 bits (new); drill press (new in box); acetylene torch set; new table saw; wood burnrow; new small rubber tires & wheels; handyman jacks; live trap; air compressor; transmission fluid; gun cleaning kits; ing stove; air impact tools; tool chests; transfer pump; weedeaters; 8 chain saws; extension & step ladders; sockets;

wrenches; pliers; tinsnips; sta-

ple gun; levels; screwdrivers;

clamps; flashlights; hardware/

screws/nail/etc.; gauges; drill bits; organizers; drills; saws;

gear pullers; dolly's; Coleman

Wisconsin engine; hydraulic jacks; engine parts; creeper; dolly's: antique gas heating stove; Much More 2 Units FULL, many small engines & generators.

erant hoses: extension cords: electrical: shelving; 2-door metal cabinet; coal bucket; radio tubes; saw blades; oil products; garden tools; tubs; flower pots; Buffalo & other sidewalk bricks; Organic greenhouse frame & cover; fence posts; cattle panels; various wire; many small shop items; Lots More!

lanterns, lights, stove; refrig-STAN EHLER ESTATE

GANNON REAL ESTATE & AUCTIONS VERN GANNON, AUCTIONEER 785-770-0066 • MANHATTAN, KANSAS • 785-539-2316 www.gannonauctions.com

GUN AUCTION

SUNDAY, JULY 19, 2020 — 1:00 PM ONLINE BIDDING AT PROXIBID.COM

411 E. Walnut Street — SALINA, KANSAS • Open for viewing at 11 AM AUCTIONEERS NOTE: FFL paperwork will be processed (\$10.00 per gun fee) but no sales tax will

be charged. Catalog on our web site features multiple pictures per gun that can be zoomed and scrolled to see details. Bidding may also be done online through Proxibid.com Auction on www.proxibid.com. Go to their website to register, read terms and conditions of sale and bid. All firearms must be shipped to your local FFL dealer. 15% Buyer's premium will be charged on

1. Glenfield mod. 60 22 LR only cal semi auto rifle

- ser #20495958 2. Excel mod. ? 20 ga single shot shotgun ser
- #68147XF
- 3. Winchester mod. 1897 12 ga pump shotgun full choke bbl ser #599534
- 4. Winchester mod. 61 22 S-L-LR cal pump rifle
- refinished ser #423607 5. Elgin Arms mod. SXS 12 ga side-by-side shotgun hammered ser #13370 6. Kassner Squires Bingham mod. 2C 22 LR only
- semi auto rifle w/Weaver scope ser #A076378
 7. J.J.Weston mod SXS 12 ga side-by-side shotgun Fine Laminated Steel Damascus bbl ham-
- mered ser #6980 8. Winchester mod. 1897 12 ga pump shotgun ser
- 9. W.Richards mod. SXS 12 ga double barrel shotgun Laminated Steel bbl hammered ser #N/A
- 10. Remington mod.12-C 22 S-L-LR cal pump rifle octagon bbl ser #127539
- 11. Winchester mod. 97 12 ga pump shotgun ser #62670
- 12. Ithaca mod. SXS 12 ga Antique double barrel shotaun ser #23005 13. Stricker mod. Drilling 16 ga double barrel shotgun w/6.5x58R rifle 3rd bbl antique w/nice en-
- graving hammered ser #905 14. Remington mod. 12 22 S-L-LR cal pump rifle
- ser #758905 15. Husqvarna mod. 51 12 ga double barrel shot-
- gun hammered ser #195598 16. Winchester mod. 1890 22 L cal pump rifle oc-
- tagon bbl ser #301003 17. Husqvarna mod. 51 12 ga double barrel shotgun hammered ser #156490 18. Marlin mod. 60W 22 LR only semi auto rifle
- Safety * Ethics Sportsmanship button on stock ser #10532781 19. Mossberg & Sons (Meriden) mod. 15 22 S-L-
- LR cal pump rifle octagon bbl ser #11779 20. Wilmont Gun Co mod. Cape Gun 12 ga bbl
- & 38 x 55mm bbl side-by-side hammered ser 21. Colt mod. 1895 32 WCF cal revolver ser #1990
- 22. Colt mod. 1895 double action 41 cal revolver ser #684 23. Colt mod. Official Police 38 Spec CTG cal re-
- volver ser #927816 24. Colt mod. US Army 1917 45 cal revolver refin-
- ished ser #130987 25. Ruger mod. Vaquero 45 cal revolver nickel w/ wood grips ser #55-66824
- 26. Colt mod. 1862 Police 36 cal revolver w/clean ing kit NIB ser #61178 26A. Authentic Colt Blackpowder Signature Series loading kit
- 27. Taurus mod PT24/7 Pro C DS 9mm čal Semi auto pistol ser #TC011702 28. Ruger mod Vaquero 45 cal revolver ser #55-
- Colt mod Agent 38 special revolver w/ holster ser #85828M
- 30. Keltec mod P-11 9mm Luger cal semi auto pistol w/hard case ser #56320 31. Royal Gun Works (Belgium) mod. SXS 12
- ga shotgun double bbl hammered, laminated steel ser #17119 32. Mossberg mod. 500C 20 ga pump shotgun 2-3/4" & 3" shells 22" vent rib bbl w/Accu
- Choke ser #R661583 33. Henry mod. H004 Golden Boy 22 S-L-LR cal lever action rifle octagon bbl NIB ser #GB185626
- 34. Henry mod. Big Boy 44 REM MAG cal lever action rifle octagon bbl NIB ser #BB26091
- 35. Henry mod. Golden Boy 22 S-L-LR cal lever action rifle octagon bbl NRA commemorative NIB ser #GB364001
- Belgian mod. Hammer Drilling 16x16 ga bbls over 9.3mm rifle bbl ser #1435 37. Meriden Firearms Co mod. 15 22 S-L-LR cal
- pump rifle octagon bbl ser #13293 38. T. Parker mod. SXS 12 ga double bbl shotgun
- hammered (right hammer not working, original) ser #N/A 39. Winchester mod. 90 22 Short only cal pump
- rifle octagon bbl ser #759285 40. St. Louis Arms Co mod. SXS 12 ga double bbl
- shotgun Belgium Laminated Steel hammered ser #190891 41. SILE Inc mod. Hawkin 50 cal black powder rifle octagon bbl w/sling fired very little ser #87216 Winchester mod. 94 Lone Star Commemora-
- tive 30-30 WIN cal lever action rifle half round half octagon 26" bbl Under Six Flags on stock w/button NIB ser #LS17969 43. Savage mod. 110 30-06 cal bolt action rifle w/
- Simmons 3-9x40 8-point fully coated scope NIB ser #G348072 44 Colt mod AR-15 223 cal semi auto rifle Match
- Target Competition (HBAR) 20 rds fired total ser #CCH034861 45. Remington mod. 24 22 LR only cal semi auto
- rifle ser #41715 46. Bayard Arms Co mod. SXS 12 ga double bbl
- shotgun Belgium Twist finish hammered ser 47. Husqvarna mod. 20 12 ga double bbl shotgun
- hammered ser #216413Z 48. ECLIPSE Gun Co mod. Eclipse Beauty 12 ga
- double bbl shotgun hammered ser #116328 **49.** Regent Arms Co mod. SXS 12 ga double bbl shotgun hammered ser #7368
- 50. Winchester mod. 1906 22 S-L-LR cal pump rifle ser #400077
- 51. Winchester mod. 1906 22 Short cal pump rifle ser #25588
- **52.** Hunter mod. S.S. 12 ga side swing shotgun 53. Daisy mod. Power Line 41 .177 cal pistol w/3
- CO2 canisters ser #3C02869 54. Iver Johnson mod. Break Over 38 cal revolver
- ser #48702 55. US Revolver Co. mod Break Over 32 cal an-
- tique revolver ser #59693 56. Baford Arms mod. Thunder 410 ga & 44 SPC

single shot pistol ser #C45827

- 57. Ithaca Gun Co. mod. 37 Featherweight 12 ga 2-3/4" chamber pump shotgun vent rib full choke bbl 40th Anniversary Ducks Unlimited nice shotgun ser #40DU0123 58. Walker Euberte mod US 1847 457 cal revolver
- 59. Mossberg International mod 715T 22 LR cal
- Black powder w/holster only Less than 20 rounds shot Like new w/box ser #ELF3418252
- 60. Ruger mod Single Six 22 cal revolver ser #20-61. Taurus mod The Judge 410 ga & 45 cal 5 shot revolver 3" matte blue bbl w/box ser
- #1Z204041 **62.** Ruger mod P89 9mm x 19 cal semi auto pistol stainless w/soft case ser #307-72100
- 63. Winchester mod 12 deluxe 12 ga pump shotgun 2 3/4" chamber full choke bbl vent rib ser 1075371
- 64. Dutch Armilite mod AR-10 308 cal semi auto rifle w/sling Cindra lower receiver ser #80039 RARE
- 65. Kel Tec mod P-32 32 auto cal semi auto pistol life warranty NIB ser #CXK-73
- Wilson Realty & Auction Service



printed matter.

www.soldbywilson.com

all sales plus a 3.5 % Credit card fee will be applied to all purchases.

Checkout on-site can be expedited by presentation of Concealed Carry permit. 66. Usartlche-Spain mod 30 12 ga double bbl shotgun ser#134353 67. Winchester mod 1912 16 ga pump shotgun full choke bbl w/Simmons rib ser#4384 68. Beretta mod S56E 12 ga O/U shotgun 2 ¾"

chamber vent rib injector gun ser #33609 **69.** Remington mod II 20 ga semi auto shotgun 2 3/4" chamber full choke bbl ser #1086834 70. Remington mod 31-TC 12 ga pump shotgun

2 3/4" chamber vent rib full choke bbl front forearm damaged ser #118461 71. Winchester mod 1890 22 short cal pump rifle

Octagon bbl w/letter ser #153589 72. Remington mod 870 12 ga pump shotgun 2 3/4" & 3" chamber fully rifled rear sights ser

#AB752244M 73. Marlin mod 1897 22 cal L/A rifle Octagon bbl

ser #233165 74. Marlin mod 1893 38-55 cal L/A rifle Octagon bbl for black powder crack in stock ser

#347409 75. Winchester mod 90 22 long cal pump rifle Oc-

tagon bbl chip in forearm ser #692330 76. Savage mod 110 7mm rem mag cal B/A rifle no magazine ser #43087

77. Winchester mod 94 32 w s cal L/A rifle manufactured 1925 ser #962128

78. Marlin mod 1895 40-65 cal L/A rifle ½ RD-1/2 Octagon bbl Nice rifle ser #131182 79. Remington mod 870 Express 410 ga pump

shotgun 3" chamber plastic shells full choke vent rib bbl ser #B905705H

80. Remington mod 1100 12 ga semi auto shotgun vent rib mod bbl ser #440427V 81. International Harvester mod M1 US rifle 30 ml

cal semi auto rifle ser #4549662 82. Marlin mod 1894 32-20 cal L/A rifle Octagon

bbl Excellent bore ser #283462 83. Winchester Antique mod 1873 Saddle ring carbine 32-20 cal L/A rifle chip & crack in stock ser#552805B

84. Ithaca mod 37 Featherlight 12 ga pump shotgun mod bb 2 3/4" chamber ser #460218

85. Remington Wingmaster mod 870 16 ga pump

shotgun 2 3/4" chamber mod bbl Early gun ser #317141W 86. Steven Arms mod 22-410 .22 + 410 ga cal O/U rifle & shotgun 3" chamber ser #N/A 87. Ithaca – Featherlight mod 37 16 ga pump shot-

gun full choke bbl 2 3/4" chamber ser #464087 88. Ithaca mod sxs 16 ga shotgun dings in bbl ser #234982

89. New Haven by Mossberg mod 600ET 410 ga pump shotgun 2 ½" to 3" chamber 28" full choke vented bb ser #428939 90. Ithaca mod 37 Featherlight 12 ga shotgun 3/4" chamber home defense shotgun ser #371721838

91. Winchester mod 94 Cowboy Commemorative 30-30-win cal L/A rifle Brave land Bold man engraved Saddle ring 20" bbl NIB ser #CB13773

92. Remington mod 700 classic 35 Whelen cal B/A rifle 22" bbl w/box ser #C6284105 93. Remington mod 700 300 Savage cal B/A rifle

24" bbl NIB ser #F6257472 94. Winchester mod 94 Lone Star Commemorative 30-30-win cal L/A rifle 22" 1/2 RD - 1/2 Octa-

gon BBL saddle ring NIB ser #LS27924 95. Ruger mod SP101 357 mag cal revolver stainless ser #576-02712

96. Ruger mod New Vaquero 45 cal revolver Nickeled ser #510-55998 97. Smith & Wesson mod SW22 Victory 22LR cal

semi auto pistol 4 total magazines 5.5" bbl stainless NIB ser #UDV9707

98. Winchester mod 1873 44-40 cal L/A rifle octagon BBL ser #11457A

99. Winchester mod 52A 22 S-L-LR cal pump rifle ser #142103

100. Winchester mod 1892 25-20 cal L/A rifle Mar-

ble Arms peep sight ser #765280 **101.** Hatfield mod SG-L single shot shotgun 3"

chamber vent rib ser #410518-003152 102. Marlin mod 336 RC 30/30 cal L/A rifle Tasco 3x9 scope sling ser #L155

103. Long Tom 12 ga single shot shotgun ser #7880

104. Stevens mod 58B 410 ga B/A shotgun 2 1/2" + 3" chamber manufactured 1939 ser #N/A

105. Savage mod Axis 30-06 sprg cal B/A rifle Nikon Prostaff 3x9 scope ser #J1255598 Mossberg mod 195 chamber C-Lect choke manufactured 1946

ser #N/A 107. Mossberg mod 390KA 16 ga B/A shotgun C-Lect choke 2 3/4" chamber manufactured

1946 ser #N/A 108. Winchester mod 03 22 cal semi auto rifle manufactured 1913 ser #113391 109. Remington mod Nylon 66 brown semi auto

rifle Bushnell 4x20 scope ser #N/A 110. Cobra mod C22M 22 mag cal Derringer w/ holster sr #095073 . J Stevens mod Tip-Up 22 cal single shot pistol manufactured late 1800's early 1900's it

does fire ser #49451 Ruger mod 22 charger 22 LR cal semi auto pistol extra mag Bi Pod Rest carrying case BSA 2x6 scope NIB ser #490-12402

Winchester mod 1894 32-40 cal L/A rifle Take Down octagon bbl Fancy wood ser #396291 114. Winchester mod 1906 Expert 22 S-L-LR cal

pump rifle ser #559003 115. Winchester mod 1886 45-90 WCF cal L/A rifle octagon bbl pistol grip manufactured 1901 ser #125198

116. Browning Belgium mod Auto 22 22 LR only ca semi auto pistol 19 1/4" bbl Grade 1 ser

117. Marlin mod 18 22 cal pump rifle octagon bbl ser #N/A 118. Winchester mod 1873 22 short cal L/A rifle

ser #251203B 119. Winchester mod 1873 44-40 cal L/A rifle 1st model ser#2490

120. Colt Double Action revolver mod 1877 38 cal 1/2" bbl w/paper ser #45977

121. S&W Schöfield mod Tip-Up 44 win ETG cal revolver Nickeled ser #13225 122. Colt mod Colt automatic 25 cal semi auto pis-

tol ser #227717 **123.** Beretta mod 75 22 LR cal semi auto pistol extra magazine cleaning rods Original box ser #15770

124. S&W mod 27-2 357 mag revolver wood grips wood box ser #153967 125. Hi Standard mod Double Nine W-100 22 cal revolver ser #932969

126. Colt mod Single Action Army 45 ca converter to 22 cal revolver ser #268158 127. IBM mod US mini carbine 30 mi cal semi auto rifle ser #can't read

128. Springfield Armory mod MI-US rifle 30-06 cal semi auto rifle service grade 3 1943-New around Oct. 1950 muzzle It w/ bayonet and scabbard ser #1848330 **129.** Springfield Armory mod SAR-4800 Sporter 5-56 mm SA-SR cal semi auto rifle ser

APPROX. 25 LOTS OF AMM

& MISCELLANEOUS

#1005-SA-48-MARCH

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Lonnie Wilson

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Grass & Grain, July 14, 2020 Beef cattle experts outline 'pillars' for sustainable ranches

In agriculture, the word search and recent guest on the Kansas State Universustainability is often assity Beef Cattle Institute sociated with environmental topics, but a senior offi-Cattle Chat podcast. NCBA cial with the National Cattlemen's Beef Association said it also has economic and social ties.

SATURDAY, JULY 25, 2020 — 9:00 AM

Offering for sale at Public Auction, located at

15125 NW Boyer Rd., BURNS, KS. From Burns, 4 miles south.

TRACTORS, TRUCKS & FARM MACHINERY

1978 JD 4640 tractor, quad range, 18.4-R42 Firestone tires, 7880 hrs.

clean; 1982 Ford TW-30 tractor, needs transmission; Ford 5000 tractor w/turbo; 1942 Farmall H tractor; 1964 Ford C-700, 18' bed & hoist;

967 Chev. 10 pickup; 2002 Ford F-150 pickup; 2004 Dodge Dakota

SLT pickup; 1948 IHC trucks; JD 7200 6 row planter w/corn, soybean 8 milo; JD 6600 diesel combine w/chopper; JD 216 16' flex head; JD 20'

lgid header; JD 16 header w/6 Hesston HeadHunters; Schaben 3 pt 300 gal. field sprayer, 45' booms, like new; JD 960 26' field cultivator Big 12 400 bu. grain cart; Bush Hog 18' tandem disc, new blades; 4

wheel running gear; yard drag; Crustbuster 33' anhydrous appl.; IHC 8-20 grain drill; 300 gal. 3 pt. sprayer; 3 pt. bale mover; rotary mower; Bush Hog 121 9' hyd. 3 pt. blade; GB 800 loader; box trailer & hoist; IHC viber shank 18' field cult.; Krause 15 shank chisel; implement carrier; AC 6 row planter; JD 400 15' rotary hoe; IHC 6 row cult.; IHC

510 4 btm. semi mt. plow; shop built header trailer; JD 6600 combine for parts; Hutchinson 47' 6" pto auger; 2 - Eaton 5,000 bu. bins & 400

ou. bulk bin (to be moved); JD moisture tester; coral & fencing (to be

moved); gin pole; 4" augers; 425 gal. poly tank & pump; hyd. cylinders

500 gal. propane tank, hyd. driven augér; Country Clipper Jázee 52' 19 hp mower; Stihl hedge trimmers; Echo pole saw; 2 - Echo line trim-

mers; Echo chainsaw; Scag turf runner; Heckendorn mower; Troybill

tiller; Poulan Pro push mower; Rockwood pop-up camper; 1978 Honey

TELEHANDLER, CONSTRUCTION & WOODWORKING EQUIPMENT Gradall 534 C-9 telehandler, 4 cyl. diesel eng., 22,650 lb. cap., 6320 hrs., work platform, 28' ext., 40' lift; PJ 7x20' hyd. tilt tandem axle trailer

w/dove tail, 80"x12' single axle drop deck trailer, 6'x12' enclosed trailer, walk in door; Clarke 100 gas welder, 7550 watt generator, 60 gal. air

ive; 10,000 watt generator; DeWalt DW 723 chop saw & stand; De Walt 10" table saw; Robo laser; scaffolding; ladders; Craftsman wood lathe; transit; bench grinders; alum. walk planks; 6" jointers; routers;

mpacts; numerous cordless tools; nail guns; cement mixer; sanders

drywall equip. & supplies; Festool Cleantex sander; metal brake; power

washer; many building sup. & lumber; drill press; toolboxes; tubing

bender; Lincoln grease gun; 10 cases Mor-Flexx mortar; tin; 8x16 storage box; 10' dog pen; garage doors; pickup toolboxes; 2-100 gal fuel tanks; 2 wheel trailer; household items; chest-of-drawers; furniture;

JANTZ CARPENTRY

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Schmidt Clerks & Cashiers/Lunch provided by: Eden Mennonite

Church Donations to Eli Parker Jantz **TERMS:** Cash day of sale. Statements made day of sale take precedence over advertised statements.

ompressor; battery charger; Grizzly 10" table saw; Grizzly s Grizzly drum sander, Milwaukee 10" chop saw; Big Foot 10" blade saw; Makita 16" beam saw; Hitachi compound slide saw; Skil saw worm

"The three pillars of sustainability are economic, environmental and social, and there are ways that cattle ranchers can impact each of these on a local level," said Myriah Extension Johnson, NCBA's senior di-

is a contractor to the beef checkoff and her research is funded through checkoff support. Johnson said producers

need to first focus on economics; "If we don't make money on our operations. they are not sustainable."

tor that also has environ-K-State Research and agricultural mental implications is economist Dustin Pendell

transition plans. "When thinking of tran-

Brad White advised pro-

ducers to consider both

income and expenses to

find a balance between the

Another economic fac-

measure by.'

know where they stand handing down the ranch economically without colfrom one generation to the lecting data. It is importnext, but there is also an ant to have benchmarks to environmental impact in reducing land fragmenta-Veterinarian and Beef tion," Johnson said. Cattle Institute director

When land is fragmented, subdivisions often are created and new roads are built, which can lead to far-reaching implications for wildlife. Johnson said that water

management and the use of diesel fuel are two other environmental factors within a rancher's consel fuel, that is a resource that can contribute toward greenhouse gases so we need to consider ways to be efficient in using that resource," Johnson said, using an example of maximizing driving routes as one way to best use diesel fuel.

"Not only does that have environmental benefits, but it also has an economic advantage because there is a direct cost for running the truck," White Johnson's third pillar

is social sustainability: "Worker safety is an example of social sustainability. It is often something ranchers don't think a lot

She encouraged cattle producers to have "tailgate conversations" with employees where they discuss an emergency action plan and identify ways to

An added benefit of these conversations, White said, is the likelihood of employee retention. "With planning and training, we ployee loss," he said.

Johnson and the K-State experts said six key points to manage sustainability

on a cattle operation in-Create efficiencies

wherever possible.

Focus on employee retention to minimize loss.

Develop a transition Design a water manage-

ment plan. Evaluate

benchmarks.

Manage safety protocols to benefit everyone.

To hear the full discussion about sustainability relating to cattle ranching, listen to the BCI Cattle Chat podcast online.

Tell them you saw it in Grass & Grain!

UPCOMING AUCTIONS

GUN ESTATE AUCTION: SUNDAY, JULY 19 - 1 PM 411 E. Walnut, SALINA, KANSAS

HOFFMAN ESTATE AUCTION: SATURDAY, AUGUST 8 -1103 Sioux Road — LINDSBORG, KANSAS Contents & Bean house (to be taken down & removed from property)

GUN AUCTION: SUNDAY, AUGUST 30 - 1 PM 411 E. Walnut, SALINA, KANSAS • APPROX. 100 GUNS! CALL TO BOOK YOUR FARM, HOUSEHOLD, OR MACHINERY AUCTION!

LOCATED AT 601 S BROADWAY, SALINA, KS Warehouse space available in secured fenced lot -1500 sqft ground level, large overhead door, \$400/month electric & snow removal provided Plastic rain barrels - \$15 each

VOTED SALINA JOURNAL READERS' CHOICE AWARDS BEST OF THE BEST WINNER AUCTIONEER FIVE YEARS IN A ROW!

FOR LATEST UPDATES & PICTURES go to website www.soldbywilson.com

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Key 16 Calf Creep Pellet is recommended 30 to 60 days before weaning. The extra weight gain will produce \$25 to \$50 return per

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Joseph Ebert, VP/GM

1-800-432-7423 office Clay Center, Kansas 67432

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Tipton Location: TIM WILES • 785-630-1049 **ROD BOHN • 785-630-0846**

> **CLAY CENTER** LIVESTOCK SALES INC.

> > Cattle sales Tuesday, 11:00 AM.

Report from July 7, 2020

BACK TO REGULAR SALE

SCHEDULE!

Light run of calves

& feeder, no

accurate test.

TOP BUTCHER COW:

\$67.00 @ 1,500 LBS.

TOP BUTCHER BULL:

\$95.00 @ 1,995 LBS.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from July 8, 2020

122.50 140 00

	CONCIONMENTO FOR HILV 4F.				4 =
2	498	123.50	BRE	D COWS:	\$670
	HEIFERS				
1	850	129.50	,	\$72.00 @ 1,83	5 lbs.
9	703	134.50	T	OP BUTCHER	COW:
2	690	136.00			
46	813	137.75	3	717	120.00
7	686	140.00	3	668	122.50

CONSIGNMENTS FOR JULY 15: 120 blk X Off Brome

PLUS MORE BY SALE DAY! SPECIAL FALL CALF &

YEARLING SALES

Wed., July 29th Wed., August 5th

Back to regular sale schedule!

Watch online with 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.

JUNCTION CITY, KANSAS • Barn Phone 785-238-1471 Seth Lauer 785-949-2285, Abilene

Cell: 785-499-2945

Clay Center, Ks • Barn Phone 785-632-5566 Clay Center Field Representatives:

KARL LANGVARDT MITCH LANGVARDT

Cell: 785-761-5814

Tom Koch, 785-243-5124 Lance Lagasse, 785-262-1185

LYNN LANGVARDT

Cell: 785-761-5813



By Spencer Crowther The new season of Yellowstone aired on Father's

The Last Cowboy

Day. Whether or not you care for it, everyone in agriculture can relate to something during the show. For me, one of those moments came in this last episode.

While getting ready to move cows to summer pas ture, the men sat horseback looking over the herd, the distance draped in staggering Montana peaks. John Dutton and one of his cowboys have this discussion. Lloyd- "Nothin' prettier on this earth."

John Dutton- "As free as a man can be."

Lloyd- "Makes you wonder who's going to feed this world when there's none of us left?

John Dutton- "Nobody, Lloyd, we'll all just go

There are multiple true points for me in this exchange - the beauty that this life and the land can provide a person. It is one of the tougher things to explain to someone who has never experienced it. When I look over the land, my eyes can see every moment that I've spent on it. My heart can feel the history of those before me, the struggles overcome, and their small triumphs that shaped the world. My mind drifts to the future, and my ever-growing optimism for those that will come after me; knowing that the land will give to them what it has given to me. The beauty is not only in the landscape, but in the moments and the lifestyle it provides. Not just a pile of dirt, but a place where a family was raised, a world was fed, and a tradition continued. Truly, then, beauty is in the eye of the beholder, for those that have been there can see it where others cannot

Living this life we are all bound to it; not by chains, but by roots. Roots that run so deep that when given the chance to leave, we stayed. Roots that freed us and saved us from most of the world's tragedies. You cannot possibly be more free than in a place where you can both lose yourself and find yourself at the same time. Many, without success, seek the feeling of freedom that we obtain daily.

When this is your way of life you know you are the minority. Most, even now during the COVID pandemic, dismiss the importance of agriculture, and the American farmer and rancher. People put their faith in food magically always being in abundance, and there will always be someone making sure they are fed. I fear the "Last Cowboy" is already out there somewhere, and the more I think Mr. Dutton is right we may all just starve.

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BULLCALVES		7 bkbwf622@134.00
		8 blk669@129.50
6 mix	485@123.00	10 mix696@127.50
HE	IFERS	12 mix645@121.00
		18 mix716@141.00
6 mix	423@125.00	10 bkbwf705@140.50
16 mix	539@135.00	28 mix744@138.25
9 Char	533@131.50	28 mix719@135.00
9 blk	593@128.00	5 mix785@128.50
5 mix	507@125.00	16 mix776@119.00
38 mix	663@130.00	15 mix778@119.00
20 mix	628@126.50	7 mix707@117.00
11 mix	661@126.00	8 blk818@136.75
•	629@124.00	
7 bkbwf	646@123.00	52 blk856@131.00
8 mix	616@120.00	57 mix873@131.00
		10 Char810@130.00
102 mix	780@123.00	32 mix859@128.50
8 mix	741@113.50	7 mix882@128.50
15 blk	804@123.00	12 blk898@128.00
	862@114.00	
STEERS		5 mix813@114.50
		46 mix982@120.75
		104 mix972@117.00
•		7 bkbwf1059@117.00
16 blk	629@144.00	53 mix1044@116.00
10 mix	616@137.50	<u> </u>
FARIY	CONSIGNM	ENTS FOR JULY 15

 32 blk Red & Char strs off grass, 450-600 lbs. 72 blk strs & hfrs, longtime weaned, off grass, Hinkson influence, 650-800 lbs.

19 blk hfrs, 750-800 lbs.

67 mostly blk hfrs, 775-850 lbs. 60 blk strs, off grass, 800-850 lbs. 194 mix strs, 850-950 lbs.

PLUS MORE BY SALE TIME

EARLY CONSIGNMENTS FOR JULY 22

545 blk hfrs, 750-850 lbs.

320 mix hfrs, 750-850 lbs.

275 blk Red & Char strs, 800-900 lbs.

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Black Cowboys Matter

Who was your favorite horse? That's a popular topic for this column. The following horse story is touching and true, as told to Texas writer J. Frank Dobie and recorded in his book I'll Tell You a Tale.

Chester Evans bought a strawberry roan colt for \$18 (This was in 1874, when \$18 was worth what would be about \$400 today). Chester was only 11 and he and his family were living in Iowa. He scraped together the money and bought the colt, which he named Prince. Prince was a pinkish roan with white stockings on his front legs and a blaze face. Chester's mother had died and his father was busy. Chester and Prince grew up together

Chester wanted to be a cowboy. With his father's blessing, he saddled up Prince and rode out to live with his uncle in western Kansas. He helped another man deliver horses to Fort Riley and rode on to Dodge City where he took up cowboying. Prince became a terrific roping and cutting horse.

and became inseparable.

In 1878, hostile Cheyennes were gathering. The cowboys knew they must notify the soldiers at Fort Monument, eighteen miles away. The lightest rider with the best horse was Chester. Chester and Prince took off with Chevennes in hot pursuit. Prince and Chester both were hit by arrows yet survived and delivered word to the fort. Two years later, Chester

and Prince were caught in a raging prairie fire. They literally raced the wind and barely made it to a plowed fireguard ahead of the inferno.

spring, Prince was turning a steer and fell on the slick grass, breaking Chester's leg when he fell. Prince came to him and let Chester struggle into the saddle, riding nine miles back to the ranch.

Chester and Prince later rode to Texas to drive cattle north to Kansas. Chester said of Prince, "I could camp anywhere with him and he would never leave me. With his keen senses he was a sentinel for game, wild cattle and horses by day and for anything prowling by night. He would grab the neck of some bunch-quitter - a horse trying to leave the remuda - and bring him

In 1887, when Chester's wife was preparing to give birth, Chester rode for the doctor and got caught in a terrible blizzard. He alternately rode and walked through the snow. When

Chester gave up and sat down in the snow. Prince would nuzzle him or paw him to make him move. Eventually they found shelter and came home to a wife and new baby boy. Prince had saved his life

During that brutal blizzard, called the "Great Die-Up," 38 men died. The Smoky Hill cattle pool began that winter with six thousand head. On the next spring, they gathered one hundred eighty-one.

Eventually, Chester and Prince and family moved to Lebo in eastern Kansas. Chester's children and their playmates learned to

Prince lived in a shed supported by a large pole and feedbox placed on a flat rock. After Prince's teeth went bad with age, he would paw the ground for feed, unwittingly loosening the rock. One day the rock shifted and the timbers fell on Prince. He was freed but couldn't move well. Chester stayed with him all that day and all that night. Prince would lip his hand. In the morning, Prince was dead. Chester said: "He was 38 years old. He had been my constant companion and my friend during his whole life. No man could have had a more congenial companion or a truer friend."

A Prince of a horse.

By Ron Wilson, Poet Lariat

There is something 'bout a horse which can touch a person's life, And help them rise above their trauma or their strife.

Whether therapeutic riding or simply recreation, A horse and human make a healthy combination. For the handicapped person, it's a form of exercise,

> and the motion that they prize. For others, there's the exhilarating gallop in a rush,

The horse is a good listener, it seems he's always there.

So we thank our equine friends for the joy they reinforce And the joy we celebrate

www.ronscowboypoetry.com

In a rain the next

Using muscles that need work

Or the simple bond that forms as we groom them with a brush.

And it gives our life a purpose to provide his daily care.

Happy Trails!

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when we find that special horse.

DIRECT Act gives beef producers additional marketing options

The Direct Interstate Certain Transactions (DI-RECT) Act was introduced recently. The bipartisan legislation would amend retail exemptions under current law to allow meat processed in state-inspected establishments to be sold across state lines through e-commerce, providing beef producers and local processors alike with more options to market directly to consumers, while also maintaining federal food safety standards.

Currently, many states have state meat and poultry inspection (MPI) programs approved by the Food Safety and Inspection Service as "at least equal to" standards set under the Federal Meat Inspection Act (FMIA) and Poultry Products Inspection Act (PPIA). Under the existing framework, however, state-inspected products can only be sold interstate if approved to do so under the Cooper-

5 blk strs

9 blk strs

6 blk strs

20 blk strs

26 blk strs

7 blk strs

5 blk red strs

30 blk bwf strs

9 blk rwf strs

4 blk bwf strs

18 blk bwf strs

The DIRECT Act would amend the retail exemption under the FMIA and PPIA to allow processors, butchers or other retailers to sell normal retail quantities (300 lbs. of beef, 100 lbs. of pork, 27.5 lbs. of lamb) of MPI state-inspected meat online to consumers across state lines. Since DIRECT Act sales are in e-commerce, they are traceable and could easily be recalled. The proposal also includes clear prohibitions on export, keeping the equivalency agreements with trading partners intact. The DI-RECT Act will allow states operating under the CIS system to ship and label as

months, more Americans looked to e-commerce to purchase essential goods like beef and an already booming online marketplace further evolved to facilitate purchases and

451@154.00

488@154.00

461@148.00

570@138.50

472@137.00

539@134.50

603@134.00

576@128.00

703@122.50

ative Interstate Shipping meet consumer demands," said NCBA president Marty Smith, a cow-calf producer from Florida "The American beef supply chain must evolve to keep up with the speed of commerce and the demands of modern-day consumers. The National Cattlemen's Beef Association supports the DIRECT Act easier for the American the American consumer to purchase safe and deli-

because it helps make it cattle producer to meet the growing demand of

cious U.S. beef."

they are currently. "Over the past few

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- 20 black calves, off cows, 700 lbs.
- 150 red & black strs & hfrs, off cows, shots, 700-750 lbs.
- 540 mix heifers, 750-850 lbs.
- 50 mix strs & hfrs, longtime weaned, off grass, 650-750 lbs.
- 100 mostly black heifers, off grass, 800-850 lbs. 230 mix steers, longtime weaned, off grass, 800-850 lbs.
- 1 load mix heifers, 775-825 lbs.

• 175 mix steers & heifers, 600-700 lbs. 70 steers & heifers, HR, longtime weaned, 600-650 lbs.

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Grass & Grain, July 14, 2020 K-State updates Swine Nutrition Guide

Kansas State University swine specialists have updated their popular nutrition guide with the latest recommendations for nursery pigs, sows and finishing pigs.

Bob Goodband, K-State Research and Extension specialist in swine nutrition and management, said the information covers swine producer's most frequently asked questions about nutrition and the specifics to each phase of production.

"It covers a lot of recommendations that can be quickly applied to a producer's nutrition program," Goodband said. "It should be able to help people with decision-making on products and nutrient specifications to help improve pig performance and lower

Graduate students Mariana Menegat and Hayden Williams helped lead the recent updates along with K-State faculty in applied swine nutrition.

The K-State Swine Nutrition guide was initially produced in the 1970s and is updated periodically, Goodband said. In 2019, K-State's swine team added sections on general nutrition and nursery pigs; and earlier this year, finished sections on the breeding herd and finishing pigs. All of the recommendations are based on university research.

The guide is available online at KSUswine.org.

"In addition to the nutrition guide, that site has a lot of other information, such as premix specifications, nutrient requirements, and tools for estimating the changes in growth and profitability," Goodband said.

Some of the online resources that K-State provides include tools for budgeting feed; estimating changes in production when adjusting pig space stocking densities; and estimating feed efficiency and return on investment when making changes to the diet.

Veterinary researcher demonstrates how additives can help mitigate risk of African swine fever transmission through feed

New research at Kansas State University is demonstrating that the risk of spreading a deadly animal virus through feed can be effectively reduced through the use of different feed additives.

African swine fever, or ASF, is a rapidly spreading and emerging transboundary animal disease that threatens pork production and human food security worldwide. Although African swine fever virus does not affect humans, it has reduced pork availability in some countries with afflicted pigs.

The K-State research team, headed by Megan Niederwerder, assistant professor of diagnostic medicine and pathobiology in the College of Veterinary Medicine, has just published a new study, "Mitigating the risk of African swine fever virus in feed with antiviral chemical additives," in the scientific journal *Transbound*ary and Emerging Diseases. This study provides the first evidence that feed additives may be effective tools against African swine fever.

"Over the last two years, ASF is estimated to be responsible for the death of at least 25% of the world's pig population due to the emergence of the virus within China and subsequent spread to over ten other Asian countries," Niederwerder said. "In 2019, we published the first report of African swine fever virus, or ASFV, transmission through the natural consumption of plant-based feed. Our subsequent work has focused on mitigation of ASFV in feed through the use of chemical feed additives and heat treatment."

Although feed additives have historically been usea to reduce the risk of bacterial contamination in feed, research thus far has not reported efficacy for the inactivation of African swine fever virus in feed ingredients. Niederwerder said there are currently no commercially available vaccines and no effective treatments that can be administered to pigs for ameliorating disease caused by the virus. Thus, control of African swine fever is focused on biosecurity measures to prevent the introduction of the virus into negative countries or negative farms and regions within a positive country. The other method of containment would involve large-scale culling of infected or high-risk animals to contain the spread of the virus. "Our new research re-

ports novel data evaluating the efficacy of feed additives on inactivating ASFV in an in vitro cell culture model and a feed ingredient transoceanic shipment model," Niederwerder said. "This will provide valuable information to the swine industry with regards to mitigating the risk of potential routes for introduction and transmission of ASFV through feed and ingredients.'

Niederwerder and her team examined two different classes of liquid

feed additives, including a medium-chain fatty acid-based additive and a formaldehyde-based additive, for efficacy against African swine fever virus in cell culture and in feed ingredients. In general, both chemical additives demonstrated evidence of reducing the virus infectivity, with data supporting dose-dependent efficacy.

This study was funded by a grant from the Swine Health Information Center and the State of Kansas National Bio and Agro-defense Facility Fund.

While the results of the study are promising, Niederwerder emphasized the need for a multifaceted approach to reducing the risk of African swine fever virus in feed, including sourcing ingredients from countries without the virus when possible, applying holding times to high-risk ingredients, and implementing consistent biosecurity protocols at the feed mill.



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Sat., July 18th - Hog/Sheep/Goat Sale Tues., July 21st - Cattle & Hay Sale Tues., July 28th - Holstein Special Fri., July 31st - Draft Horse & Mule Sale

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50 mix 891@128.00 **STFFRS** 711@126.00 15 mix 6 blk 657@148.00 10 bkRd 859@126.25 5 blk 787@124.00 13 bkbwf 753@141.00 56 mix 1011@123.10 8 blk 698@122.00 4 Bfmstr 670@120.00 10 bkRd 679@140.50 8 xbred 778@115.00 HEIFERS 27 bkRd 811@134.00 5 Bfmstr 556@115.00 9 blk 801@133.75 4 bkbwf 623@131.25 14bkbwfrbf863@112.75 15 bkChr 721@130.75 6 Bfmstr 568@130.00 8 mix 849@110.00 5 blk 749@129.00 738@129.25 4 Bfmstr 609@110.00 105bkbwf910@128.50 9 bkbwf 728@129.00

Butcher Cows: \$43-\$73.50, mostly \$58-\$68.00, very active. Butcher Bulls: \$78.50-\$110.00, mostly \$95-\$102.00, very active. Preg Cows: \$785.00-\$1,375.00

BUTCHER COWS 2 blk 1245@67.00 1240@73.50 1323@67.00 2 blk 1 blk 1435@73.00 1305@67.00 4 blk **BUTCHER BULLS** 1 Red 1490@72.50 1 Simm 1590@72.00 1 blk 1775@110.00 1 blk 1420@71.00 1 blk 1895@102.50 1505@71.00 1820@102.00 1 blk 1920@70.00 1 Rd Ang 1780@100.00 1410@70.00 1830@98.50 1 blk 1 blk 1 Red 1800@69.00 1 wf 2040@97.00 1 Red 1925@68.00 1850@97.00 1 wf 1042@67.50 1630@95.00 **EARLY CONSIGNMENTS FOR JULY 16**

• 500 blk Rd Char hfrs, 750-900 lbs, open, off the grass. 210 blk Red Char strs, 800-1,000 lbs, off the grass. 90 mostly blk strs & hfrs, 500-700 lbs, Fall calves, dbl. vac.

80 blkbwfrbf strs & hfrs, 500-800 lbs, Fall calves, dbl. vac.

40 blkbwf strs & hfrs, 400-500 lbs, weaned 50 days & dbl.

EARLY CONSIGNMENTS FOR JULY 23

400 blk Red Char strs & hfrs, 700-900 lbs, Hfrs open, off the grass.

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MARKET REPORT FOR TUESDAY, JULY 7, 2020

RECEIPTS: 506 CATTLE

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8 blk hfrs

5 blk hfrs

7 blk hfrs

7 blk hfrs

16 blk hfrs

5 rwf hfrs

10 blk hfrs

27 blk hfrs

5 blk hfrs

7 blk hfrs

368@180.00

392@175.00

468@162.00

474@160.00

528@152.00

570@149.50

599@147.50

628@144.50

615@144.00

687@135.00

794@125.50

933@120.25

EMAIL: dan@holtonlivestock.com

View our auctions live at "Imaauctions.com"

Horse and Human

Grass & Grain, July 14, 2020 footwear

BOGS, the footwear brand known for innovative materials and original prints, proudly announces a national partnership with 4-H, the nation's largest youth development organization empowering young people across the U.S. through hands-on experiences that develop critical skills for life today

With roots in agriculture, BOGS' collaboration with 4-H is not only a natural fit, but also provides the brand and its customers the opportunity to broaden its support of outdoor education through a donation program.

"With early beginnings rural communities

throughout the country. both BOGS and 4-H take a very 'hands-on' approach to outdoor education and connecting with the next generation of leaders. The opportunity to work with such an iconic brand that's synonymous with youth development and learning, is something BOGS is extremely excited to share with our retailers and fans," explains Dustin Combs, president of BOGS Footwear.

partners with 4-H for outdoor education

"4-H is proud to partner with BOGS, a great leader in outdoor footwear, to help America's Cooperative Extension System deliver hands-on-learning experiences to more young people across the country," said Jennifer Sirangelo, president and CEO, National 4-H Council. "These educational experiences go beyond simple classroom learning and help youth build confidence and skills to face life's challenges and become leaders in their lives, careers and commu-

Available July 2020 boot styles for men, woman and kids will be found on shelves and online at retailers across the country. For each pair of the BOGS boots, featuring the wellknown 4-H Clover name and emblem, \$5 will go to 4-H and support programs including animal science and agriculture.

Kansas Garden Guide tops most-read list of K-State publications vegetables and herbs as

American's blossoming interest in gardening and buying local foods is reflected in the publications that they are accessing through the K-State Research and Extension bookstore.

In May, the three pubdownloaded lications most often include the Kansas Garden Guide (7,626 downloads), Food Safety for Kansas Farmand the Vegetable Garden Planting Guide (2.046).

All three publications are available for free online. Together, they were downloaded 12,061 times in May, better than onethird of the more than 31,500 downloads the top 25 publications during the month.

There are more than 1,700 publications available online from the bookstore, according to

the organization's publishing manager, Mark Stadtlander. The topics covered include agriculture, food safety, family resources, child development, 4-H, natural resources, gardening and

The Kansas Garden Guide, originally created in 1993 and revised in 2010, has long been a favorite. It contains information on growing

it relates to soil, compost, seeding, watering, pest control, container gardening. extending the season, harvesting and storing. The 80-page publication is printed in

The rest of the top ten publications viewed online in May, with the number of downloads, include:

Planning cattle feedlots

Chemical Weed Control (1,693)

Kansas Crop Planting Guide (1.302)

Designing a Bud Box for Cattle Handling (1,072) Market Goat Showman-

ship from Start to Finish

Spring Freeze Injury to Kansas Wheat (953)

Preserving Flowers and Decorative Foliages with Glycerin (887)

All of those publications, and many others. are available for free online. The majority of publications available as digital downloads also are available in hard copy some at no cost, but most

for a small charge. For more information or to order publications. contact the K-State Research and Extension bookstore at 785-532-5830,

ers Market Vendors (2,389) or online. New media expert urges businesses to start online presence

The executive director of a program that helps rural business owners manage new media says that the rush to using online marketing as a result of the COVID-19 pandemic does not have to be com-

Cheryl Boyer, co-founder of the Center for Rural Enterprise Engagement at Kansas State University. talked recently to more than 60 small business owners during a First Friday webinar hosted by the university.

Boyer said she understands the anxiety among some to transform their brick-and-mortar, Main Street businesses into an

Grass & Grain Weather Report

online sales format. Yet, parts of society continue to be locked down or limited, and it's not yet clear that consumers are ready to get back to shopping the way they once did.

"Businesses that can adapt to this new economy are more likely to thrive,' Bover said. "And we want you to thrive. We want your businesses to stay functioning and thriving and for people to spend more money with you.'

The tangle of services that offer online business platforms can be overwhelming, including Wordpress, Weebly, Wix, Square, Shopify, Amazon and more. The number

of payment tools also can be confusing, from Woo-Commerce, Authorize.net, Square, Stripe, PayPal, Cash, VenMo and others.

But Boyer urged business owners not to get paralvzed by the numerous options. "Don't let perfect be the enemy of good," she said.

"Get something up there, get started, don't go out of business," she said. "Find a way to communicate what you're selling so that people can purchase something from you, because they want to buy from you; they just need to know how. Keep working at building your e-commerce presence over time.

July 15, 2020

It doesn't have to perfect and it doesn't all have to be up there on day one." In her presentation.

Boyer outlined advantages and disadvantages of many online platforms. Her full presentation is available online through the Center for Rural Enterprise Engagement. Boyer is also available to answer questions and give guidance by email. crbover@ksu.edu.

She noted that while most stay-at-home orders have expired across the country, an online presence is still going to be valuable to most businesses. It may also become critical again in the case of future shutdowns.

"A lot of times when we're setting up e-commerce, it's new for everybody," she said. "It's new for you as a business owner and it's new for the customer trying to make an order. I think the most critical piece is to respond to customers as quickly as possible. Even if you can't give them all the information they need, acknowledge that you received it; let them know you exist, you heard them and it may take a while to get back to them with all the informa-

Establishing a valuable online store could include a lot of work, including gathering images of each product with descriptions, and uploading that information into a website. All of that has to be kept updated, as well.

"As a business owner

you should think about who in your community wants to help you be successful and can do a piece of the puzzle for you," Boyer said. "Maybe there are current employees who you can re-direct to do this work, or maybe there are local allied businesses that you can partner with. And in a lot of communities there may be students who are looking for experience and have the knowledge to be able to do some of that work.'

In 2015, the Pew Research Center reported that eight in ten Americans are online shoppers, and 15% buy products online weekly. Those numbers have likely increased during the pandemic when all Americans - at one point - were under government stay-at-home orders.

It led many businesses to get creative in how they are serving custom-

ers, including online sales, curbside pickup, home delivery and email ordering. For businesses, Boyer said it also required a new set of best practices for businesses, including:

Communicate clearly. Let customers know you are following guidelines set forth by the U.S. Centers for Disease Control, and you are telling people exactly what you are doing to be safe in your store

Put up signs encouraging social distancing.

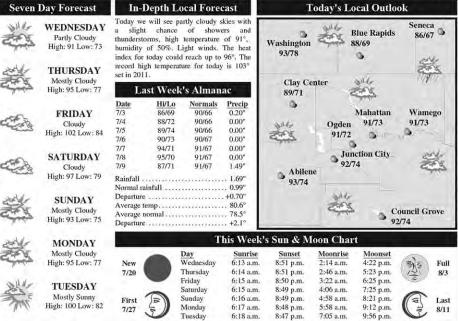
Make sure your staff is following safety guidelines, such as wearing masks, practicing social distancing, cleaning displays and washing hands.

Install clear dividers between staff and customers at checkout stands and other appropriate areas. Disinfect surfaces be-

tween customers, and make sure they see you doing it. Check guidelines regu-

larly. The CDC's coronavirus page is at cdc.gov/ coronavirus.

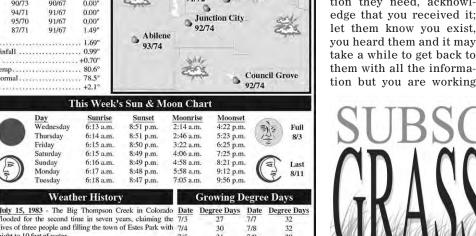
More information and tips are available from the Center for Rural Enterprise Engagement online through its website, as well as Facebook and



Weather History

Cattle

second time in seven years, claiming the lives of three people and filling the town of Estes Park with 7/4





10:30 AM

STARTING TIME

Tuesdays

Buyers & sellers are welcome in the ring area with social distancing being practiced. You can watch the live auction at www.dvauction.com . If you need assistance with watching or bidding online contact DV Auction customer service at 402-316-5460. Thank you for your cooperation. If you would like approval to bid online from the safety of your home, please do the approval process on www.dvauction.com prior to Tuesday.

We sold 1575 cattle July 7. There was good demand for steer and heifer calves at steady prices. Feeder steers and heifers sold steady to \$3.00 higher. Cows and bulls were steady.

Or Buy

STEER & BULL CALVES 1 blk str 190 @ 200.00 11 blk/red strs 330 @ 174.00 532 @ 162.00 6 blk/red strs 447 @ 159.00 9 blk/red strs 3 blk strs 493 @ 159.00 507 @ 156.00 7 wf/blk strs 2 blk strs 545 @ 148.00 425 @ 141.00 1 blk str

19 blk/char strs

12 blk strs

18 blk strs

2 blk strs

2 blk strs

4 blk/red strs

63 blk/bwf strs

4 blk/char strs

65 blk/char strs

180 blk/bwf strs

52 blk/bwf strs

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

55 mix strs 867 @ 133.75 764 @ 133.50 4 blk strs 6 blk/char strs 701 @ 133.00 809 @ 133.00 35 mix strs 59 blk/bwf strs 893 @ 132.75 122 mix strs 892 @ 128.00 8 blk/char strs 855 @ 127.00 886 @ 124.75 8 x-bred strs 919 @ 123.50 60 mix strs STOCKER & FEEDER STEERS 22 blk strs 695 @ 149.25 61 mix strs 696 @ 148.75 746 @ 143.00 610 @ 142.00 4 blk/red hfrs 630 @ 140.00 1 blk hfr

57 mix strs

1018 @ 117.00 1013 @ 116.25 **HEIFER CALVES** 306 @ 148.50 175 @ 146.00 3 blk/red hfrs 382 @ 140.50 1 blk hfr 295 @ 140.00 1 blk hfr 335 @ 138.00 1 blk hfr 440 @ 138.00 4 blk hfrs 524 @ 137.50 2 red hfrs 413 @ 137.00

866 @ 134.25

2 x-bred hfrs 463 @ 136.00 10 mix hfrs 527 @ 135.00 1 red hfr 515 @ 134.25 2 blk/red hfrs 283 @ 133.00 2 blk hfrs 500 @ 133.00

Auction

STOCKER & FEEDER HEIFERS 73 blk/bwf hfrs 667 @ 143.00 6 blk/red hfrs 585 @ 138.50 10 blk/char hfrs 669 @ 134.50 18 blk/red hfrs 661 @ 134.25 65 blk/char hfrs 758 @ 130.75 8 blk/red hfrs 633 @ 130.00 5 blk hfrs 685 @ 130.00 69 blk/red hfrs 779 @ 129.75 24 blk/char hfrs 716 @ 129.50 6 blk/char hfrs 721 @ 128.50 72 mix hfrs 805 @ 125.75 65 blk/bwf hfrs 842 @ 123.85 66 mix hfrs 775 @ 122.50 13 blk/char hfrs 848 @ 115.00 12 wf/red hfrs 785 @ 106.00

COWS & HEIFERETTES 905 @ 85.00 1 blk hfrt 1 char hfrt 1090 @ 70.00 1 blk cow 1710 @ 64.00 1 blk cow 1260 @ 63.00 1 blk cow 1410 @ 62.50 1 blk cow 1285 @ 62.00 1 bwf cow 1200 @ 58.50 1 sim cow 1290 @ 57.50 1 blk cow 1185 @ 57.00 1 bwf cow 1240 @ 56.50 1 blk cow 985 @ 55.50 1 blk cow 1215 @ 55.00 1 blk cow 1060 @ 53.00 1 blk cow 1245 @ 52.00 1 blk cow 1130 @ 51.00

@ 825.00 1 red cow **BULLS** 2085 @ 89.50 1 blk bull 1 blk bull 1805 @ 88.00 1 blk bull 1990 @ 85.00 1 blk bull 1710 @ 73.00

BRED COWS

WATCH OUR AUCTIONS LIVE ON DVAuctions.com **CONSIGNMENTS FOR JULY 14:**

• 35 blk steers & heifers, 500-650 lbs., vacc. 130 blk red Angus Char heifers, 775-800 lbs., off grass

 65 black heifers, 775-800 lbs. 65 black heifers, 800-825 lbs.

150 blk red heifers, 700-725 lbs., off brome

• 70 black Charolais steers, 675-750 lbs.

65 black Charolais steers, 800-825 lbs.

 60 blk Charolais steers, 875-900 lbs., off grass 61 black crossbred steers, 950-975 lbs.

• 60 black steers, 900-950 lbs., off grass

CONSIGNMENTS FOR JULY 21: 180 blk Char steers, 850-900 lbs., off grass

CONSIGNMENTS FOR JULY 28:

390 blk Char steers, 850-900 lbs., off grass

Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to WWW.grassandgrain.com & logging onto the online subscription

FOR INFORMATION OR ESTIMATES: **REZAC BARN** ST. MARYS. 785-437-2785

DENNIS REZAC ST. MARYS, 785-437-6349 **DENNIS' CELL PHONE** 785-456-4187 KENNETH REZAC ST. MARYS 785-458-9071

594 @ 139.00

838 @ 138.50

623 @ 138.00

864 @ 137.25

910 @ 136.35

883 @ 135.00

LELAND BAILEY LYNN REZAC **REX ARB**

ST. MARYS, 785-456-4943 MELVERN, 785-224-6765

TOPEKA, 785-608-4005 Toll Free Number......1-800-531-1676



Livestock Commission Company, Inc.

Website: www.rezaclivestock.com **AUCTIONEERS: DENNIS REZAC & REX ARB** St. Marys, Ks.