

Scientists identify proteins in bacteria associated with bovine respiratory disease as possible intervention

Poor health, viruses, and environmental stress can leave young calves susceptible to secondary bacterial infections that cause bovine respiratory disease (BRD). These severe infections commonly result in pneumonia, and treatments can be costly.

To identify unique proteins that can be used for future interventions

against this disease in cattle, scientists at the United States Department of Agriculture (USDA), Agricultural Research Service (ARS), took a closer look at the genetic material of multiple subtypes (strains) of three groups of bacterial species commonly implicated with BRD.

In a study recently published in *Genome*, U.S.

Meat Animal Research Center microbiologist Emily Wynn and molecular biologist Mike Clawson examined DNA sequences from bacteria commonly found in cattle exhibiting signs of BRD. These bacteria are known as *H. somni* and *P. multocida* and *M. haemolytica*, which has a variable genotype (strain types). The scientists have sorted the variable genotypes of *M. haemolytica* into two strain types (type 1 and 2).

It is not uncommon to find all three groups of bacteria living in the upper respiratory tract of cattle with no signs of BRD, along with communities of "good" bacteria. When calves' immune system becomes weakened by viruses or due to stress

caused by environmental factors (such as weaning, transportation, poor ventilation, etc.), these three bacteria (*H. somni*, *P. multocida*, and type 2 *M. haemolytica*) multiply in the upper respiratory tract and invade the lungs where they cause disease.

But this multiplication in calves with weakened immune systems does not happen as frequently with type 1 *M. haemolytica*. Therefore, it was important for the scientists to compare gene content across the three groups of disease-causing bacteria and identify differences between the groups and the more benign strain type 1 *M. haemolytica*.

Scientists focused on the differences in the proteins existing in the outer

membrane of each of the bacterial groups, as these outer membrane proteins can be very important for either bacterial survival or its recognition and targeting by the host's (calf's) immune system.

"Part of our research aims to use very high precision in targeting unique proteins, or antigens, in the outer membrane of the BRD-causing bacteria. These antigens induce an immune response and can protect the animal. We anticipate these proteins can be used in future preventative measures without disrupting other 'good' microorganisms coexisting within the same environment or host," said Wynn. "One of the most exciting discoveries in this study was to find the outer mem-

brane protein W, or *OmpW*, in all three harmful bacteria but not in the type 1 *M. haemolytica*. We look forward to investigating that further."

Wynn and Clawson found other proteins present in the outer membrane of all these groups of bacteria, giving them additional preventative targets, too.

Insights from this study open doors for the use of antibody recognition of outer membrane proteins to develop preventive strategies against bacteria that cause BRD. The scientists plan to expand their study with larger populations of BRD-associated bacteria and to use the same approach to specifically target additional disease-causing bacteria.

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A nice run of quality cattle found good interest at steady to strong prices for our sale held on Friday, October 29th. As always, long weaned cattle and calves that have had pre-weaning shots showed the most interest. Cull cows and bulls sold at steady to weaker prices on the kind offered.

| | | |
|---------------|----------|------------|
| Wheaton | 5 blk | 522@158.50 |
| Greenleaf | 12 blk | 513@155.00 |
| Havensville | 6 blk | 518@154.50 |
| Bremen | 8 Rd Ang | 448@150.50 |
| Bremen | 4 Rd Ang | 375@148.00 |
| Wamego | 5 blk | 547@144.50 |
| Wamego | 9 blk | 526@138.00 |
| Council Grove | 4 blk | 486@127.00 |

| | | |
|-----------|--------|------------|
| Florence | 1 blk | 1910@81.00 |
| Florence | 1 blk | 1775@80.00 |
| Frankfort | 1 blk | 1380@77.50 |
| Flush | 1 blk | 1825@73.00 |
| Alma | 1 Herf | 1460@70.50 |
| Alma | 1 Herf | 1065@68.00 |

| | | |
|----------------------------|--------|----------|
| REPLACEMENT HEIFERS | | |
| Onaga | 20 Ang | @1400.00 |
| Washington | 5 blk | @1325.00 |
| Manhattan | 8 blk | @1310.00 |

STEER CALVES — 425-550 LBS.

| | | |
|---------------|-----------|------------|
| Havensville | 10 blk | 465@197.00 |
| Greenleaf | 6 blk | 446@197.00 |
| Baldwin City | 9 blk | 450@196.00 |
| Wamego | 10 blk | 463@189.00 |
| Flush | 4 blk | 478@188.00 |
| Wheaton | 11 mix | 490@184.50 |
| Bremen | 9 Rd Ang | 407@178.00 |
| Wamego | 6 blk | 497@175.00 |
| Wamego | 5 blk | 436@173.00 |
| Havensville | 16 blk | 544@170.00 |
| Council Grove | 4 Rd Ang | 515@165.00 |
| Bremen | 23 Rd Ang | 513@160.00 |

HEIFERS — 575-800 LBS.

| | | |
|-------------|--------|------------|
| Wamego | 47 blk | 799@166.00 |
| Wheaton | 5 blk | 658@165.00 |
| Wamego | 24 blk | 776@155.00 |
| Havensville | 8 blk | 602@150.00 |
| Greenleaf | 20 blk | 589@148.00 |
| Flush | 7 blk | 643@146.50 |
| Alma | 20 blk | 690@145.75 |
| Manhattan | 4 blk | 673@143.00 |
| Wamego | 4 blk | 642@129.00 |

STEERS — 550-900 LBS.

| | | |
|--------------|----------|------------|
| Wamego | 6 blk | 554@168.50 |
| Wheaton | 10 mix | 601@167.00 |
| Flush | 10 blk | 615@164.50 |
| Wamego | 60 Cross | 816@160.50 |
| Baldwin City | 13 blk | 556@160.00 |
| White City | 7 blk | 687@158.50 |
| Alma | 4 bwf | 592@158.50 |
| Greenleaf | 15 blk | 584@158.00 |
| Wamego | 65 Cross | 893@158.00 |
| Wamego | 4 blk | 682@153.25 |
| Havensville | 4 blk | 647@152.50 |
| Greenleaf | 7 blk | 645@152.50 |
| Baldwin City | 9 blk | 663@149.50 |
| Hope | 6 Cross | 891@149.00 |
| Flush | 4 blk | 796@148.00 |
| Wamego | 15 blk | 621@146.00 |
| Wamego | 10 blk | 757@137.00 |

COWS & HEIFERETTES — 925-1,850 LBS.

| | | |
|-----------------|----------|------------|
| Alma | 1 herf | 995@107.00 |
| Prairie Village | 1 Rd ang | 1050@94.50 |
| Prairie Village | 1 Rd Ang | 925@79.00 |
| Onaga | 1 blk | 1675@75.50 |
| Onaga | 1 blk | 1850@74.50 |
| Frankfort | 1 blk | 1475@68.50 |
| Hope | 1 blk | 1530@67.00 |
| Alma | 1 blk | 1430@66.50 |
| Frankfort | 1 blk | 1440@63.00 |
| Corning | 1 blk | 1235@59.00 |
| Blue Rapids | 1 blk | 1250@56.00 |
| Council Grove | 1 blk | 1320@54.00 |
| Manhattan | 1 blk | 1390@52.50 |
| Manhattan | 1 blk | 1140@50.50 |
| Morganville | 1 blk | 1150@48.50 |
| Council Grove | 1 Char | 1110@48.00 |
| Hope | 1 Cross | 1195@47.50 |
| Corning | 1 blk | 1025@47.00 |
| Council Grove | 1 blk | 1175@46.00 |
| Alta Vista | 1 Cross | 1245@43.00 |
| Burlingame | 1 blk | 1010@43.00 |

HEIFER CALVES — 375-550 LBS.

| | | |
|-------------|-------|------------|
| Havensville | 4 blk | 457@165.00 |
|-------------|-------|------------|

BULLS — 1,050-2,375 LBS.

| | | |
|--------|-------|------------|
| Wamego | 1 blk | 2375@84.00 |
|--------|-------|------------|

EARLY CONSIGNMENTS FOR NOV. 5

- 60 blk & Crossbred hfrs, long weaned, 600-700 lbs.
- 100 choice blk strs, off grass, 925-975 lbs.
- 30 Blk strs & hfrs, weaned/shots, 450-600 lbs.
- 40 Blk strs, 2 rds shots, bunk broke, weaned 60 days, 600-800 lbs.
- 40 choice reputation Angus strs, sired by High carcass bulls, weaned Sept. 21, 550-600 lbs. 2 complete rd shots, no implants, complete information on web site.
- 10 Replacement quality Angus hfrs, 550-600 lbs.
- Knetter Brothers will be bringing 150 Choice Blk long yearling feeder strs, 750-825 lbs., off grass, no grain.
- 16 choice Angus strs & hfrs, Spring shots, 500-600 lbs.
- 10 blk strs, Spring shots, 500-600 lbs.
- 55 big fancy blk Fall yearling replacement OCV hfrs, all pre-breeding shots, 800-850 lbs.
- 50 choice blk bwf strs & hfrs, weaned 60 days, 3 rds shots, 550-650 lbs.
- 40 Red Angus strs & hfrs, weaned 30+ days, 2 complete rd shots, 500-650 lbs.
- 50 blk Angus strs & hfrs, weaned 30+ days, 2 complete rd shots, 500-650 lbs.

EARLY CONSIGNMENTS FOR NOV. 12

- 55 choice Rep. Ang strs & hfrs, weaned 75 days, 2 compl. rd shots, 550-700 lbs.
- 28 Rep. Ang strs & hfrs, weaned 55 days, 3 rds shots, 550-650 lbs.
- 158 choice reputation SimAngus strs & replacement quality hfrs, 550-700 lbs.
- 22 blk strs & hfrs, 30 days weaned, 2 complete rds shots, 550-700 lbs.

SPECIAL STOCK COW & BRED HEIFER SALE
WED., NOV. 17 • STARTING 11:00 AM

1ST CALF HEIFER PAIRS

- 8 choice BWF Fall calving 1st calf OCV hfrs with 30-60 day Blk calves by side. Hfrs & calves all worked.
- 70 Blk 1st calf OCV hfrs with 75 day Angus sired calves. Calves have all shots.

BRED 1ST CALF HEIFERS

- 78 Big fancy hand picked Northern origin Angus & SimAngus 1st calf OCV bred hfrs CONSISTING OF:
 - 48 confirmed AI bred to LBW calving ease Angus Sub Zero bull May 27 & May 28 for March 5 calving.
 - 25 are bull bred LBW Angus June 11 - June 26 for March 20 calving.
 - 5 Red Angus bred Red Angus June 2 - June 16 for March 11 calving.
- 42 Big fancy Pieper Genetic Red Angus 1st calf OCV hfrs, LBW Red Angus bulls turned in April 1 for Jan. 10 calving. Hfrs have had all breeding shots, Scourguard 4KC shot.
- 24 big fancy gentle BWF 1st calf OCV hfrs, 17 are confirmed AI bred on May 5th to a Stevenson Basin LBW Angus bull. 7 are bull bred 30 days later to Angus bulls. Heifers have had Vire Shield 6 VL5 and Scour Bos 1100# plus.

BRED 2ND CALF HEIFERS

- 132 blk BWF One Iron 2nd calf hfrs bred LBW Marple SimAngus bulls May 25 for 60 days, wormed Cydectin/ Spring shots.

COW/CALF PAIRS

- 45 Big choice Red Angus & Red Baldy Sand Hill origin, fancy Fall calving cows 3-5 yrs with big Sept.-Oct. DeBrucker Char sired calves by side.
- 7 Blk, BWF cows, 7 yrs & older with Fall calves by side.
- 18 Blk Fall calving OCV cows, 3-5 yrs with Angus sired 75 day old calves by side. Calves have all shots.
- 7 Blk SimAngus cows, 6-7 yrs with 60 day Blk calves by side. Cows have had ViraShield 6/ VL5/ Poured Vetromectin/ Calves: Vision 7/ Somnus/ Presponse/ poured/ bulls castrated.
- 20 blk with a few Red Fall calving cows, 3-5 yrs with Angus sired 45-60 day calves by side.
- 4 Fink genetics blk cows, 8 yrs, w/ 45 day calves by side. 1 rd 7-way/ Enforce/ Dectomax.
- 10 blk cows 3-6 yrs, with Angus sired calves by side. Cows & calves worked.
- 18 Red Ang cows, 3-5 yrs w/ late Aug. - Sept. calves by side.
- 18 blk cows, 3-5 yrs w/ late Aug. - Sept. Ang & Char sired calves. Calves all worked.

BRED COWS

- 40 mostly blk cows, 5-6 yrs bred Herf or Ang to start calving Feb. 24 for 60 day calving period.
- 20 mostly blk, few Red cows, 7 yrs & older, bred Registered Herf bull for Jan. calving.
- 6 Herf & bwf cows, 4 yrs to older, Flat Top Angus bull turned in April 1. Spring shots, wormed.
- 20 blk & Red Angus, few Baldy cows, 3-6 yrs, bred blk & Red Angus for Feb.-April calving.

COMPLETE RETIREMENT DISPERSAL CONSISTING OF:

- 82 Choice reputation home raised Blk Angus Gelv cross cows 4 yrs to SS, Blk Balancer bulls turned in June 1 to late August. 10 of these cows have Oct. calves by side.
- 15 Fancy Blk Balancer 1st calf OCV hfrs bred to LBW Balancer bull for March calves.

COMPLETE DISPERSAL CONSISTING OF: 50 choice Reputation home raised Angus cows, 3 yrs & older, bred to Angus bulls for late February - March calves, full vaccination program.

COMPLETE DISPERSAL CONSISTING OF: 80 Angus cows, 5 yrs to older, Angus bulls turned in May 8.

- 45 Blk cows, 3-4 yrs, bred Dix Angus bulls to start calving Feb. 1 for 75 days.

BULLS

- 1 Registered Herf bull, 3 yrs, Trich & Semen tested.
- 1 blk Angus Flat Top bull, 2 yrs, Trich & Semen tested.

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Kansas Hay Market Report

Hay market prices remain steady for alfalfa and grass hay and trades remained fairly steady as well. Most producers agree that pricing will not see significant change until bad weather moves in. Warmer weather and good soil moisture have allowed some folks to continue putting up a final cutting of hay. According to NASS, Pasture and range conditions rated 6% very poor, 20% poor, 39% fair, 33% good, and 2% excellent. According to the U.S. Drought Monitor for the week of October 19th, improvements were made across parts of Nebraska and Kansas due to weekly precipitation amounts of greater than 1 inch and soil moisture recovery. Abnormally dry conditions (D0) decreased to 23%, moderate drought (D1) increased to 12%, and severe drought (D2) decreased to near 2.5%. 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.

** Prices below reflect the average price. There could be prices higher and lower than those published.

Southwest Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered steady, movement slow. Alfalfa: horse, premium small squares 260.00-280.00 with an instance at 300.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock or Dry Cow 180.00-190.00. Grinding alfalfa 175.00-185.00. Ground and delivered locally to feed lots and dairies, 200.00-210.00; Grass Hay: Bluestem, 3x4's and 4x4's 85.00-95.00; Brome,

none reported; Sudan: large rounds 90.00-100.00. Wheat straw, 3x4's and 4x4's 85.00-95.00. The week of 10/17-10/23, 8,111T of grinding alfalfa and 1,375T of dairy alfalfa was reported bought/sold.

South Central Kansas

Dairy alfalfa, alfalfa pellets, grinding alfalfa, ground/delivered steady, movement slow. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Good, Stock cow, 165.00-175.00. Fair/good grinding alfalfa 160.00-170.00 delivered. Ground and delivered 190.00-200.00. Alfalfa pellets: Sun cured 15 pct protein 220.00-235.00, 17 pct protein 240.00-250.00, Dehydrated 17 pct 310.00-315.00. Grass Hay: Bluestem, large rounds 90.00-95.00, large squares 100.00-110.00. Brome: large round 100.00-105.00. Oat hay, good large rounds 120.00-125.00, good 3x4 squares 130.00-135.00. Sudan: large rounds 90.00-100.00. The week of 10/17-10/23, 6,130T of grinding alfalfa and 295T of dairy alfalfa was reported bought/sold.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, grass hay steady; movement slow to moderate. Alfalfa: horse or goat, 250.00-260.00. Dairy 1.00-1.05/point RFV. Stock cow 160.00-170.00. Fair/Good grinding alfalfa, 145.00-155.00. Ground and delivered, none reported; Grass hay: Bluestem, small squares 120.00-130.00, good 3x3 squares 115.00-125.00, good, 3x4 and 4x4 squares 100.00-120.00, large rounds 70.00-85.00. Brome, good, small squares none reported, 3x4 to 4x4 squares 115.00-125.00, large rounds 85.00-95.00. Wheat Straw: 3x4 and 4x4 squares 60.00-80.00. The week of 10/17-10/23, 1,607T of grass hay was reported bought/sold.

Northwest Kansas

Dairy alfalfa, ground/delivered steady, grinding alfalfa steady, movement slow. Alfalfa: Horse or goat,

small squares 300.00-400.00 delivered. Dairy, Premium/Supreme 1.05-1.10/point RFV. Stock cow, fair/good 175.00-185.00. Fair/good grinding alfalfa, 160.00-170.00. Oat hay, 3x3 square 135.00-145.00; Sudan, none reported. Wheat straw, large squares 75.00-85.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay steady, movement slow. Alfalfa: horse, premium small squares, 9.00-10.00/bale. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00.00, Premium 180.00-205.00, Good 155.00-185.00. Stock Cow, 160.00-170.00. Fair/good, grinding alfalfa 130.00-140.00; Ground and delivered 155.00-165.00. Grass hay: Bluestem, small squares 6.00-6.50/bale, large 3x4 to 4x4 squares, 130.00-140.00 delivered, good, large rounds 90.00-100.00, Brome, small squares 7.25-8.00/bale, 3x4 to 4x4 squares 125.00-135.00, large rounds 95.00-110.00; Wheat Straw: Small squares 5.00-6.00/bale, Large 3x4 to 4x4 squares 85.00-100.00. Certified weed free grass mulch large rounds, 80.00-90.00. The week of 10/17-10/23, 585T of grinding alfalfa and 200T of dairy alfalfa was reported bought/sold.

** Prices above reflect the average price. There could be prices higher and lower than those published.

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

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

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

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

Apply now for the Angus/Talon Youth Educational Learning Program Internship

For many, hands-on learning serves as the most engaging, interactive, and practical way to retain information. The Talon Internship Program provides college-aged students the unique opportunity to spend their summer on an Angus operation gaining valuable, hands-on experience. Interns will gain extensive ranching knowledge while complementing their skills as advocates for the beef and agriculture industry. Applications for the Angus/Talon Youth Educational Learning Program Internship are due Dec. 1.

"We remain grateful beneficiaries of the incredible vision Cam Cooper had for preparing the next generation of leaders for Angus and the cattle industry," said Thomas Marten, Angus Foundation executive director. "The experience of mentoring and hands-on learning has

been mutually beneficial for both hosts and students in the Talon internship and the program continues to grow each year."

The internship allows the legacy of the late Cameron "Cam" Cooper of the Talon Ranch, Twin Bridges, Montana to live on through its recipients. Cooper developed the Angus/Talon Youth Educational Learning Program Endowment Fund in 2009 to be a one-of-a-kind educational experience for students. College sophomores, juniors, seniors and graduate students under the age of 25, majoring in an agricultural-related field of study, are eligible to apply for the internship.

"I applied for the program because I was hoping to learn more about the beef industry," said Ben Harman, who was placed at Dublin Ranch in Harrison, Nebraska. "I wanted to learn more about how other people run their operations on a much larger scale than what I'm used to."

Harman, who hails from Boswell, Indiana, said the internship allowed him to form a different perspective on agriculture, gain knowledge from farmers and ranchers, and fully comprehend the impact they have on the industry.

"The most valuable thing I've found in this internship is just the connections and the networking," said Harman. "Without this internship, I don't know if I would have ever had that opportunity to learn so much and to gain so many connections."

During the internship, recipients visit both the American Angus Association® headquarters in Saint Joseph, Missouri and Certified Angus Beef® LLC in Wooster, Ohio. Additionally, interns get the

opportunity to participate in numerous Angus and beef cattle activities off the farm, such as educational events, conferences, field days and much more.

Compensation for Talon interns is provided by the Angus Foundation through the Angus/Talon Youth Educational Learning Program Endowment Fund.

For more information on the Talon internship program, contact Thomas Marten at TMarten@Angus.org or visit angus.org/foundation.



Bar S Blackbird 9108 won grand champion cow-calf pair at the 2021 Kansas State Fair Roll of Victory (ROV) Angus Show, Sept. 18 in Hutchinson. Jayce Dickerson, Paradise, owns the February 2019 daughter of BC Alpha c1327. A March 2021 heifer calf sired by Bar S Range Boss 8180 completes the winning duo. Craig Sands, Stillwater, Okla., evaluated the 72 entries.

Photo by Legacy Livestock Imaging

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Kansas Cattlemen's Convention begins November 12th in Junction City

The Kansas Cattlemen's Association's (KCA) 23rd Annual Convention and Trade Show will begin on Friday, November 12, 2021. Member policy meetings will start at 8:00 a.m. at the Courtyard by Marriott in Junction City, Kansas. Doors will open to the public at 9:00 a.m. for the kickoff of the trade show.

The two-day event will include presentations and panels covering numerous topics related to independent cattle production. Guests will take part in discussions

regarding animal health and nutrition, ranch and beef promotion, commodity markets, animal husbandry, and more. Additionally, the KCA Membership Annual Business meeting and banquet will take place during the event.

Tom Noffsinger, DVM, of Production Animal Consultation, will provide a presentation titled "Caregiver Impact on Cattle Health, Performance, and Wellbeing." An expert stockman and veterinarian, Dr. Noffsinger has over three decades

of experience in beef cattle practice and is now an independent feedlot consultant specializing in facility design, stockmanship, and low-stress livestock handling. His seminar provides practical solutions for applications in cattle operations.

Steve Redd of Redd Summit Advisors will discuss Pasture, Ranchland, and Forage (PRF) Insurance. PRF is a federally subsidized program that provides insurance coverage on grazing acres, owned or leased. PRF was designed to protect

rancher's operation from the risks that come due to a lack of precipitation. Ranchers are able to receive indemnity payments when rainfall in their area is less than the 70-year average. Redd Summit Advisors are able to calculate multiple years back on client acreage to determine past performance of the program, and Mr. Redd will discuss just how the program works.

Mike Zuzolo, Global Commodity Analytics, will lead a discussion for his Cattle 2022 Out-

look: Currencies, China, & Competition. Mike has been a commodity representative and expert for over 25 years. He will share his latest analysis of the cattle markets, past and present, and will be available to answer questions.

Finally, KCA has invited representatives of the national trade organizations to discuss their respective associations and policy approaches relevant to independent cattle production. This panel discussion will allow producers to receive a side-

by-side comparison of how national issues are approached by each organization.

The presentations and trade show are free and open to the public. The convention will close with an evening social, annual benefit auction, and banquet. To see the full schedule and to RSVP for free registration visit www.kansascattlemen.com/convention. Three meals will be served at a charge and can be reserved online. Attendees are asked to RSVP online or by calling 785-238-1483.

Determining a 'fair' land lease takes homework

By James Coover, crop production agent, Wildcat Extension District

When it comes to estate planning, the following scenario happens entirely too often. A (mostly) retired farmer or land owner dies, the estate is settled, and then the surviving family have no idea what the leases of the farm ground are. They don't know the terms, the rental rate or the crop share percentages, and sometimes not even who the last person leasing the land was. They are left scrambling in a quest of who, what, when, where, and mostly importantly, how. Often, the land in question has long been leased and everyone has already moved away from what was once the family farm. The next generation has a general understanding of farming, but has little concept of farming financial details. In the end, the family wants to know what is fair to the leasing farmer, but still make the most rent or crop share profit.

What's in a good lease? If at all possible, the first step in creating an agriculture lease is to know what lease is currently held. To get this information, you will have to ask the person who made the lease what are the contract details. If you are that person, then do your family a favor and write them down. If you're lucky the details are already down in a written contract. Whether writing down a verbal contract or starting over with a written contract, the following contract details are important.

- Contracting parties: This might seem simple but often farmers have shared operations and land can be owned by multiple family members. A land contract is not automatically transferred when a farmer retires and the farming partner takes over.

- Property Description: The legal boundaries can be determined at the county deeds office and is required for a proper con-

tract.

- General Terms of the Lease: Pretty cut-and-dried terms like dates on contract, no subleasing, right of entry, etc. It is important to detail hunting rights, road and fence repair obligations as well.

- Payments and Due Date: Payments if cash rent and the date in which payments are to be made by.

- Land Use: This is the meat and potatoes and by far the biggest part of the contract. This will be the hardest part for people not familiar with farming, especially in crop share agreements as it will contain the percentages; expenses and income. Sometimes a landlord will designate a specific practice such as cover crops, tillage, or conservation practices.

- Maintenance: Who is responsible for fencing, conservation, noxious weeds, repairs and general maintenance.

Examples of ag contracts can be found on

agmanager.info or other state's Extension websites. Even though many are fill in the blank, it is ideal to have a legal professional look them over.

What is a 'fair' lease? Determining 'what is fair' for a cash rent or for a crop share can be a more difficult question. Data is collected from yearly surveys to determine average cash rents and these can be a starting point. However, the data doesn't differentiate between land types; upland or bottom land, native or fescue, or state of condition. Also, not many people turn the surveys in so rental rate averages are sparse and variable. For crop share, the question is who pays for what and in what percentages. The majority of crop share contracts in southeast Kansas are on a one-third/two-thirds

basis. Data from surveys about leasing agreements was collected last year. 75 to 100 percent of the one-third/two-thirds contracts split fertilizer costs, depending on crop type. Splitting herbicide cost was more common in soybeans and wheat than it was in corn, and splitting insecticide cost was less common in each crop type.

Looking at the arrangements from the rest of the state, splitting of fertilizer and herbicide costs is common in one-third/two-thirds agreements. However, for 60/40 and 50/50 arrangements, nearly all also split fertilizer, herbicide, and pesticide on that percentage. This makes sense because the landlord should cover more costs as they receive a higher percentage of the

crop. The surveys didn't ask about liming costs, which are often split 50/50 by landlord and farmer, no matter the crop share percentages.

In the end, what is fair is subjective, and the data that we use to determine what is common isn't always statistically robust because so few turn in the land use surveys. Forming a good written lease and telling family members about the lease details will always be helpful later on. Statistics on rental rates, crop share agreements, and blank contracts can all be found K-State's Extension economics website, agmanager.info.

For more information, please contact James Coover, Crop Production Agent, jcoover@ksu.edu or (620) 724-8233.

Cattle Chat: maintaining cow efficiency

By Lisa Moser

Efficiency is something many strive for, whether it is spending money wisely or making the most of the time dedicated to a project.

And for the beef producer, developing an efficient cow herd has financial implications, according to beef cattle experts who recently spoke on a Kansas State University Cattle Chat podcast.

Joining Beef Cattle Institute nutritionist Phillip Lancaster and veterinarians Bob Larson and Brian Lubbers was Twig Marston, field nutritionist with Hubbard Feeds, a division of Alltech. Each advocated for a different efficiency measurement priority.

Larson emphasized the importance of reproductive efficiency.

"Producers need to look at the number of calves weaned per cow exposed and you want that number to be high," Larson said.

Lancaster stressed the role of nutrition in having an efficient cow herd.

"Nutritionally speaking, it is important to evaluate the amount of money spent on winter feed versus the amount of time cattle can graze the pastures," Lancaster said.

These measurements

influence the economics, according to Marston.

"Feed is going to be one of the greatest out of pocket expenses, so to be efficient you have to match their cows to your resources," he said.

One way to track those expenses is through keeping good records, said the experts.

"If you can identify the inefficient individuals, then you change the management to improve the efficiency of the whole herd," Lubbers said.

He also highlighted the importance of herd health.

"While nutrition and reproductive efficiencies can be harder to measure, I can count sick cows and they don't perform well," Lubbers said, "The beef animal's health impacts how efficient it will be in

all aspects of the factors already mentioned."

Marston added: "Most producers are really trying to match their biological efficiency with their economic efficiency because they are trying to get a return on investment for each of their inputs, such as labor, equipment, feed, etc..."

To hear the full discussion, listen to the Cattle Chat podcast online.

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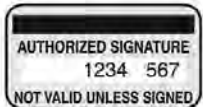
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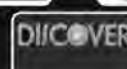
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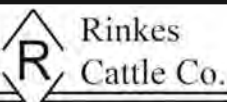
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GRASS & GRAIN

Letter to the Editor

The Bureau of Land Management (BLM) now has a Biden administration 30x30 acolyte, and this heavy pipe hitter of an environmental extremist will give states a challenge to their sovereignty to manage their own land, and threaten private property. Contrary to mass belief, the federal government does not own land, they manage portions that have been designated as national parks, national monuments, "Public" lands, or habitat for endangered species. As the Property Clause, outlined in Article 4, Section 3, Clause 2 of the Constitution, gives the Federal government sole control over the above stated property. Here is the nuance that is continually missed.

Once a territory is voted into statehood by Congress, said property is then transferred to the new state. The grind that has had western states

Why do trees change color in fall?

By Taylor Jamison, K-State Research and Extension news writer

A favorite part of the fall season for many is the changing color of the tree leaves, but have you ever wondered how this happens?

"Specific pigments determine individual colors," said Kansas State University horticulture expert Ward Upham. "Foliage derives its normal green color from chlorophyll, the substance that captures the energy of the sun."

Chlorophyll is what allows leaves to produce the necessary energy, in the form of sugar, from sunlight. This is the process of photosynthesis.

Other pigments, except red and purple, are already present in the leaves throughout the growing season. They are masked by chlorophyll, making the leaves appear green. The red and purple pigments are produced after chlorophyll is destroyed in the fall.

Common pigments and the corresponding color they appear are:

Anthocyanin - red and purple

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MISCELLANEOUS

CORN PICKIN' DAYS ARE HERE!
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Tell them you saw it in Grass & Grain!

constantly battling the feds; which started in the early 1900s with Teddy Roosevelt, is the federal government has come into a state and used the Property Clause, with support from the Antiquities Act to declare particular acreage "managed lands" for a plethora of reasons, as quoted, "We have fallen heirs to the most glorious heritage a people ever received, and each one must do his part if we wish to show that the nation is worthy of its good fortune." - Teddy Roosevelt

Environmental and habitat extremists, educated in Marxist ideology against private ownership of land has honed their land grab practices through the 1970s and '80s in lobbying Congress to declare portions of a state to be managed because of a spotted owl, or a rare salamander. Effectively barring states to exploit their natural re-

sources. Because, as we know, when our founding fathers convinced the original 13 states to ratify the Constitution, it effectively bonded us to each other. So that a Congressman in New Hampshire will have influence on what happens in Utah.

Enter Tracy Stone-Manning, an honest, larger than life eco-terrorist, who spent her youth intricately involved with an environmental terror group that were discovered spiking trees in the Northwest to hamper logging operations. Someone who wrote multiple papers arguing why the world needs less people, to keep we parasites from sucking Mother Gaia dry.

So, Kansans, strap up, it is going to be a wild and turbulent 3 years.

Charles Cherry
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lution in leaves. Cloudy days and warm nights will make the trees produce less sugar and less vibrant colors.

The weather during other seasons may also affect fall coloring.

"Heavy rains in the early spring or hot, dry weather during the summer can both have a deleterious effect on fall color," Upham said.

Once the fall colors arrive, frosts and freezes can shorten their duration - leaving behind just the brown colors. Make sure to enjoy the fall leaves while you can, before the cold winter weather sets in, Upham said

Upham and his colleagues in K-State's Department of Horticulture and Natural Resources produce a weekly *Horticulture Newsletter* with tips for maintaining home landscapes. The newsletter is available to view online or can be delivered by email each week.

Interested persons can also send their garden-and yard-related questions to Upham at wupham@ksu.edu, or contact your local K-State Research and Extension office.



2021 CENTRAL KS FREE FAIR LIVESTOCK GRAND AND RESERVE CHAMPIONS



The Grand Champion Market Lamb, Champion Cross-bred Lamb was led by Raine Garten, Abilene FFA, shown with her family and Ed Hewlett, judge.



The Reserve Champion Market Lamb was first named Champion Hampshire and was shown by Dally Emig of the Holland Sunflowers. Also pictured are Dusty, Jo and Cash Emig along with Ed Hewlett, judge.



The Grand Champion Market Goat was shown by Raine Garten.



Carleigh Abeltdt showed the Reserve Champion Market Goat.



The Reserve Champion Breeding Doe was exhibited by Ava Brown.



Abi Lillard drove the Grand Champion Market Barrow. Pictured from left are: Kole Sutton, judge; Della Hettenbach, CKFF Queen; Chase Lillard, Abi Lillard - Willowdale; Wyatt Thompson, Mason Fink, KFF King Attendant.



The Grand Champion Gilt, Champion Crossbred Gilt was shown by Cooper Wuthnow, Abilene FFA.



Senior Swine Showmanship Champion was Abi Lillard, Willowdale, and Reserve Champion was Chase Lillard, Willowdale.



Junior Swine Showmanship Champion went to Alec Wuthnow, Willowdale and Reserve was earned by Anna Holt, Detroit Ramblers.



The Grand Champion Market Beef was exhibited by Jackie Sleichter.



The Reserve Champion Market Beef was shown by Kaylee Livingston.



Round Robin Showmanship winners were, from left: Intermediate Reserve - Layla Pickerign, Fragrant Hilltoppers; Int. Champion - Carleigh Abeltdt, Jolly Jays; Senior Reserve - Jackie Sleichter, Abilene FFA; Senior Champ - Abi Lillard, Willowdale, shown with species judges.



Ag Olympics Champions



Ag Olympics Runners-Up

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Schwieterman Market Outlook

A marketing commentary by Bret Crofts

In general, it was a pretty good week for the grain markets. We saw new all-time highs in the oats, new contract highs in Minneapolis and Kansas City wheat, and new two-month highs in the Chicago wheat and the corn. Soybeans were higher for the week, but that market is not nearly as dynamic as the others and is nowhere near the contract highs.

Since the quarterly stocks report and the October supply and demand report, the soybeans have lost quite a bit of their luster. Soybean oil is still near its high and vegetable oil prices in general are very strong. However, traders fear another increase in the soybean yield estimate, which would lead to even higher ending stocks, so it is difficult to generate any speculative enthusiasm when we have the threat of higher stocks. Demand for soybeans is strong, but well behind last year's pace, which is something that bearish traders like to point out. Our recent sales pace is easily strong enough to meet the current USDA export sales estimate of 2.090 billion bushels, but it is also strong enough to reach last year's export sales total of 2.650 billion bushels. Once we get past the

supply and demand report on November 9th, demand will come into focus and it will be easier for the soybeans to sustain strength.

The market that is having the most difficulty meeting the sales pace necessary to reach the yearly export estimate is the wheat, and the wheat market is the one making new contract highs. There is little carry in the market, and basis is strong, which is usually an indication of solid up-front demand, but we are still not seeing export sales that are consistently good enough to remove the threat of USDA cutting the export estimate. A few more weeks of 500,000 MT totals would change that.

Corn demand is quite strong. USDA already has higher ethanol usage penciled in and recent production figures definitely warrant that. Export sales for both corn and milo are at an adequate pace to meet the current estimate, and with USDA expected lower corn exports this year, the burden is actually on the bears to prove that we are not going to exceed the current estimate.

On the charts, the December KW looks like it should head for the \$8.50 - \$8.70 area. The December corn should test the resistance at \$5.94 and the January soybeans are

probably going to stall out at \$12.70 if we see any attempts at a rally ahead of the supply and demand report.

Cash cattle trade has improved with lots of trade at the \$127 level and some better than that. December live cattle tested the resistance at the 50% retracement of the last leg down and stalled out. The December live were higher for the week, but more than \$2 off of the weekly highs, and Friday's close back below the 50-day moving average is bothersome. Hopefully the improving cash market gives the futures a boost.

The feeder cattle index remains in a sideways pattern and the feeder cattle futures died at the 50-day moving average yet again. The soft finish to the week in the live cattle futures really wrecked the chances of the feeder cattle finally pushing through resistance. Strength in the corn did not help matters either, which is probably something feeder cattle traders will have to contend with for quite a while.

Schwieterman, Inc. is a full service commodity brokerage firm. If you would

like more information on commodity markets or our brokerage services, contact Bret Crofts at 800-272-9131, www.upthelimit.com or bret@subbell.net

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Factors influencing cow supplementation pre- and post-weaning

A well-balanced diet is important in humans' overall health plan.

Similarly, just as our caloric needs adjust throughout the life cycle, nutritional fluctuations happen in the beef cow, said the experts at Kansas State University's Beef Cattle Institute on a recent Cattle Chat podcast.

"Right after weaning, the beef cow's energy requirements are low," said veterinarian and BCI director Brad White.

Fellow veterinarian Bob Larson suggested the first step in making a nutrition plan for the cow herd is to assess the body condition of the cows.

"By knowing the body condition, producers can either get by with minimal supplementation for cows in good nutritional shape, or if they are thin, this is a good time to add weight on them while they are in mid-gestation and not lactating," Larson said.

For thin cows, beef cattle nutritionist Phillip Lancaster said the most economical way to add weight is by turning them

out on grass while it is still available.

"Aside from the inconvenience of hauling hay and cost of feeding supplements later in the winter, by waiting to supplement the cows in the last trimester of their pregnancy, producers will have less time to ensure that cows reach a desired body condition by calving," Lancaster said.

However, he added, from an efficiency standpoint, research has shown that adding body condition in late lactation is improved over that of a non-lactating, or dry, cow.

"If you can separate the thin cows and their calves and feed them away from the other cows in the herd, that can be an advantage, but it also takes more work to manage that system," Lancaster said.

White added that the management strategy will be dependent on several factors on the operation, one of which is access to the cows.

"Logistically, it may be easier to add weight on the cows after weaning," he said.

VALENTINE LIVESTOCK AUCTION CO. Valentine, Neb.
THURSDAY, NOVEMBER 4, 2021
Special Spring Calf Sale
S.T. 12:30 p.m. Expecting 3200 hd

Valentine Livestock Health Protocol 2021
 #4 7-way (2), 5-way viral (spring & fall), pasteurized, and poured or injected w/ Ivermectin (fall)
 #3 7-way (2), 5-way viral (spring & fall), pasteurized, no pour on
 #2 7-way (2), 5-way once; #1 7-way only

Listings:

120 blk, bwf str NI weaned 45 days Hoffman Ang & Hereford sired.....450-550#
John M & Tyler Lee

100 bwf (F-1) & blk (20s-80h) NI hfrs not topped600-650#
Steve, Tiffany & Briley Naprstek #2

300 Ang & blk str NI Baldridge & Assman genes500-650#
Matt & JJ Harvey #3

230 blk & Ang NI hfrs not topped550-675#Tribal Ranch #2

400 blk, blk-x (220s-180h) hfrs not topped Marcy genes475-625#
Fischer Cattle Co #4

270 blk str NI April/May born475-575#Bob Carr & Sons #3

260 blk (160s-100h) Ang sired450-550#Greg Ford Family

120 blk & rd str450-550#Chane Coomes

100 char-x & rd Ang str NI Allied tagged- Schueler genes500-550#
Flying D (M & B DeNaeyer) #4

120 blk hfrs NI Ang sired Leader, Joseph & Titus475-550#
JJ Hockenbary & Qualley #3

100 Ang hfrs long time good475-550#Lois, Ed & Tony Titus #4

150 rd & blk Ang NI450-575#David Keester

110 blk, bwf (F-1) (60s-50h) NI bwf hfrs not topped450-550#
Lonnie & Becky Roghair #4

150 Ang NI hfrs not topped500-650#Bob & Ila Derry

100 Ang600#Joseph Ang Rn #4

107 rd-x, wf & blk, bwf (27) NI600-700#Reena King & Jack King #4

85 .blk & Ang NI550-675#Derric & Meagan Krueger

85 .blk, few rd500-600#Trent & LaRee Colburn #4

65 .blk (1 char) NI500-600#R,N,J & A Sinnett #4

60 .blk, bwf NI475-550#Robert Cox #4

53 .blk, bwf (3 rd) (27s-26h)500-600#Dan & Tessa Pazour

25 .blk (1 bwf) NI550-600#Terri Miller #1

20 .blk NI600#Steve Arment #4

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Central Livestock
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 South Hutchinson, Ks

www.centrallivestockks.com

Clint and Dalli Turpin ~ Owners
Office: 620-662-3371

Hay Auction- Every Tuesday at 9:00 a.m.
Cattle Auction- Every Tuesday at 11:00 a.m.
Hog/Sheep/Goat Auction- Every 3rd Saturday
Horse/Tack Auction- Every 2nd Saturday

Tues., Nov. 9th - Calf/Yearling Special
Sat., Nov. 13th - Horse & Tack Sale
Tues., Nov. 20th - Hog/Sheep/Goat Sale
Tues., Nov. 30th - Bred Cow/Pair Special
ALL WEIGH COWS & BULLS SELL AT THE END

VALENTINE LIVESTOCK AUCTION CO. Valentine, Neb.
MONDAY, NOVEMBER 8, 2021
Special Bred Female & Regular Sale
S.T. 10:00 a.m. on weigh-ups; 3:00 p.m. on bred (exp. 700-800)

Dispersions & Liquidations:

40 .blk & Ang (young-short term) bred Hereford (VinMar); of 3-15 for 30 days.
 Weaned 6 wt calves off the last 3 yrs. Dispersion, cows have been good to us!
Bat & Patty Pourier (308-430-1957)

52 .blk, bwf (15 young, balance solid mouth-short/spread) bred Angus; of 3-1 for 60 days. Moved to sunny Arizona, selling our herd. Dispersion
Dan & Tessa Pazour (605-280-6521)

80 .blk & Angus (short term; 1400#) bred Angus; of 3-1 for 60 days. Liquidation of short term cows
Joseph Angus Ranch

60 .blk, bwf (short term; 1300-1400#) bred Hereford (Van Newkirk & Logterman); of 3-25 for 60 days. Short on hay, mothers to 6 wt str & hfrs every year. Liquidation
Roger & Matt Glynn (605-441-5418)

Other Bred Females:

60 .blk, bwf (solid mouth-short term) bred blk & char (20%); of 3-20 for 50 days
Moore Ranch

50 .blk (short term; 1200-1300#) bred Ang; of 2-7 for 85 days.Barnes Angus Rn

55 .blk, blk-x (3 & 4 yrs; 1100-1175#) bred Ang & Ang/simm; of 3-15 for 60 days.
 HR
Todd & Jerry Adamson

**More short-term cows from Adamson (45) Coats (35)
 Blackford (25) Rothleutner (21)**

View our special sales online @ cattleusa.com
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 For complete listing visit our website: www.valentinelivestock.net

Eureka Livestock Sale
 P.O. Box 267 Eureka, KS 67045
 620-583-5008 Office 620-583-7475

Sale Every Thursday at 11:30 a.m. Sharp
Like Us On Facebook!

On Thursday, October 28, we had 526 head of cattle with feeder cattle being much higher.

| | | |
|--------------------|---------------------|---------------------|
| STEERS | 8 bkLim 594@148.00 | 8 blk 605@147.50 |
| 3 blk 538@170.50 | 5 blk 661@146.00 | 3 bkbwf 803@146.00 |
| 5 bkbwf 640@164.50 | 3 Chr 760@142.00 | 3 bkLim 535@142.00 |
| 26 bkbwfRd..... | 4 bk-Fat1364@116.00 | 17 mix 815@141.75 |
|752@161.50 | HEIFERS | 5 bkbwf 573@141.25 |
| 4 blk 639@160.00 | 21 bkbwf 636@159.50 | 6 Lim 996@134.50 |
| 7 bkLim 517@159.00 | 33 bkbwfRd..... | 4 blk 658@133.50 |
| 70 bkbwfRd..... |717@156.70 | 3 blk 968@132.00 |
|859@158.40 | 8 bkChr 726@155.00 | 3 blk 1128@116.00 |
| 6 bkChr 741@156.00 | 18 bkRd 676@151.00 | 6 bkbwf 1072@113.00 |
| 5 bkGry 909@151.00 | 7 bkbwf 794@148.00 | 5 bkbwf 1138@107.00 |

Butcher Cows: \$43-\$77.00, mostly \$61-\$75.00; very active.
Butcher Bulls: \$73-\$94.50, mostly \$79-\$85.00; very active.

| | |
|---------------------|----------------------|
| BUTCHER COWS | 1 blk 1435@74.00 |
| 1 blk 1685@77.00 | |
| 1 blk 1640@76.00 | |
| 1 blk 1400@76.00 | BUTCHER BULLS |
| 1 bwf 1510@75.50 | 1 blk 2005@94.50 |
| 1 Red 1340@75.00 | 1 blk 1490@89.00 |
| 1 Red 1475@75.00 | 1 blk 1635@81.50 |
| 1 bwf 1505@75.00 | 1 blk 1605@80.50 |
| 1 Red 1495@74.50 | 1 wf 1475@79.50 |
| | 1 blk 1460@77.00 |

EARLY CONSIGNMENTS NOVEMBER 5

- 70 blk & Red Ang X str/hfrs, 600-750#, weaned & dbl. vac.
- 85 blk bwf rbf str & hfrs, 500-750#, off the cow.
- 38 blk Red str & hfrs, 400-600#, off the cow.

EARLY CONSIGNMENTS NOVEMBER 11

- 125 blk Red Limo X cows from 1st calf hfrs to 10 yrs old, bred to blk & Red Limo bulls. Complete Dispersal. Mostly all Spring calvers, some pairs.
- 125 blk Red Limo X str & hfrs, 500-700#. All from Billy Stewart Estate of Severy, KS.
- 32 blk bwf cows, 3-7 yrs old, Spring calvers bred to Angus bulls.

We appreciate your business!

Ron Ervin - Owner-Manager
 Home Phone - 620-583-5385
 Mobile Cell 620-750-0123
Austin Evenson- Fieldman
 Mobile Cell 620-750-0222
 If you have any cattle to be looked at call Ron or Austin

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

MARKET REPORT FOR TUESDAY, OCTOBER 26, 2021
RECEIPTS: 1075 CATTLE
FOR FULL RESULTS, VISIT OUR WEBSITE:
WWW.HOLTONLIVESTOCK.COM

| | |
|-----------------------------------|----------------------------------|
| STEERS | 6 bwf rwf Hoyt 760@154.00 |
| 3 blk McLouth 386@210.00 | 9 blk red Whiting 710@141.00 |
| 5 blk bwf Valley Falls 390@209.00 | HEIFERS |
| 8 blk Holton 406@205.00 | 9 blk Denton 477@167.50 |
| 8 blk Denton 502@189.00 | 6 blk Holton 408@167.00 |
| 12 blk Corning 508@187.00 | 14 blk Denton 557@162.00 |
| 10 blk Axtell 513@177.00 | 9 blk red Whiting 516@161.00 |
| 37 blk red Corning 574@169.00 | 8 blk bwf Circleville 534@159.00 |
| 18 blk Denton 590@167.00 | 6 blk char Sabetha 522@155.00 |
| 14 red blk Whiting 557@164.00 | 9 blk Meriden 576@154.50 |
| 12 blk bwf Corning 645@163.50 | 11 blk bwf Axtell 547@146.00 |
| 14 blk rwf Axtell 612@161.00 | 8 blk Olsburg 511@144.00 |
| 12 blk Olsburg 553@160.00 | 6 blk bwf Holton 720@143.50 |
| 34 mix Whiting 605@158.50 | 17 red blk Whiting 588@142.00 |
| 16 blk Topeka 826@157.50 | |

SPECIAL COW & BULL AUCTION, THURSDAY, NOVEMBER 4 * 6 PM
Early Consignments Include:

- 40 blk & few red cows/30-60 day old Angus sired calves 3-5 yrs, mostly 2nd calf, Cows VS6VL5 & calves vacc Vitamin ADE, Enforce 3, calfguard, cows not exposed **D Smith**
- 40 blk bwf cows/30-60 day old calves, mostly 3-5 yrs, few older, most home raised, cows & calves vacc & worked, ready to turn out, not exposed **Perry Ranch**
- 8 blk cows/calves 3-5 yrs Cows & calves vacc **R&D Meng**
- 10 blk cows/60-90 day old calves, not exposed **SS J Brown**
- 9 blk & char 1st calf hfrs/300-400 lb calves, exposed to blk bull since June 1 **C Bloom**
- 1 blk hfr/45 day old blk bull calf **D Kramer**
- 3 blk 1st calf hfrs/July calves (banded & vacc) not exposed **G Reinecke**
- 1 bwf hfr/90 day old calf, exposed to red Angus bull for 60 days **G Buehler**
- 5 blk simm ang cows 4 yrs bred Oleen simm ang for March 20 calves **M Westerman**
- 30 blk bwf cows 7&8 yrs bred char bulls for Feb. 20 calves **D Pickering**
- 15 blk bwf cows SS bred blk simm bull for April calves **M Pickering**
- 50 blk bwf bred cows 3-5 yrs bred to blk simm ang or blk simm for few Dec. calves, mostly Feb.-March calves **J Elder**
- 60 blk 1st calf bred hfrs 950-1100 bred Reg. blk Angus LBW bulls for Feb.-March calves **K Ribelin**
- 25 blk Angus open replacement hfrs 725-775 sired by Sons of Payweight, Thunder & Black Granite Angus bulls vacc 5/8 VS6+VL5, PE, Poured 8/4 Stay Bred VL5, Ultrabac 7, Dectomax **Nemaha Valley Angus**
- 20 month Reg. blk Angus bull fertility & trich tested **J Moore**
- 20 month blk Angus bull fertility & trich tested **D Kramer**

Dan Harris, Auctioneer & Owner • 785-364-7137
Danny Deters, Corning, Auct. & Field Rep. • 785-868-2591
Dick Coppinger, Winchester, Field Rep. • 913-774-2415
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EL DORADO LIVESTOCK AUCTION, INC.
316-320-3212
 Fax: 316-320-7159
2595 SE Highway 54, P.O. Box 622, El Dorado, KS 67042

Market Report - Sale Date 10-28-21. 618 Head

300-400 lb. steers, \$177-\$213; heifers, \$150-\$173; 400-500 lb. steers, \$170-\$203; heifers, \$145-\$183; 500-600 lb. steers, \$151-\$173; heifers, \$123-\$155.50; 600-700 lb. steers, \$128-\$162; heifers, \$119-\$145; 700-800 lb. steers, \$117-\$155.50; heifers, \$126-\$131; 800-900 lb. steers, \$140.50-\$163.85; heifers, \$101-\$126; 900-1000 lb. steers, \$137-\$151.50. **Trend on Calves:** Mostly steady to \$5 higher. **Trend on Feeder Cattle:** No test on feeder hfrs; str \$2-\$6 higher. **Butcher Cows:** high dressing cows \$60-\$74.50; Avg. dressing cows \$45-\$59; low dressing cows \$30-\$44. **Butcher Bulls:** Avg. to high dressing bulls \$62.50-\$88.50. **Trend on Cows & Bulls:** Mostly \$4 to \$6 lower.

Some Highlights Include:

| | |
|-------------------|--------------------|
| HEIFERS | 3 mix 425@203.00 |
| 1 blk 420@176.00 | 13 blk 478@190.00 |
| 17 mix 432@157.00 | 22 mix 484@179.00 |
| 2 blk 488@156.00 | 4 blk 546@173.00 |
| 18 mix 503@148.00 | 4 blk 594@163.00 |
| 9 blk 514@155.50 | 9 blk 641@155.50 |
| 4 blk 613@145.00 | 125 blk 842@163.85 |
| | 60 mix 863@159.75 |
| STEERS | 24 mix 926@151.50 |
| 5 mix 373@213.00 | |
| 6 mix 404@198.00 | |

Thursday, November 4, 11 AM

- 40 black steers & heifers, home raised, weaned, shots, 600-800lbs
- 1 load mixed steers & heifers, weaned 45 days, shots, 450-500lbs
- 2 loads mostly blk steers, 850-900lbs

OUR NEW WEBSITE IS UP & RUNNING!
UPDATED DAILY WITH NEW CONSIGNMENTS!
WWW.ELDORADOLIVESTOCK.COM

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

Check our website & Facebook for updated consignments: www.eldoradolivestock.com
To stay up to date on our latest announcements you can "Like" us on Facebook

| | |
|--|---|
| Josh Mueller Owner/Barn Manager (316) 680-9680 | Van Schmidt Auctioneer/Fieldman (620) 345-6879 |
| Seth Greenwood Asst. Barn Manager/Fieldman (620) 583-3338 | Barrett Simon Auctioneer/Fieldman (316) 452-1792 |
| Kyle Criger, Fieldman, (620) 330-3300 | |

Cattle Sale Every Thursday 11:00 AM

Top industry issues to be discussed at KLA Convention

Speakers scheduled to appear at the Kansas Livestock Association (KLA) Convention in Wichita will talk about the 2022 cattle and beef markets, industry issues being addressed at

the federal level, how consumer meat buying trends have changed throughout the pandemic and the latest in sustainability research. The convention will take place December

1-3 at the Wichita Hyatt and Century II Convention Center.

Veteran market analyst and CattleFax chief executive officer Randy Blach will take the stage during Beef Industry University (BIU) to talk about what the cattle and beef markets might hold in store over the next year. He will deliver his comprehensive, data-driven outlook during a presentation sponsored by the Farm Credit Associations of Kansas. Blach will assess where the industry stands regarding cattle numbers and what that means for beef supplies in 2022. He will factor the economy and competing meat supplies into his forecast for domestic beef demand. Feed and energy cost projections will be shared as well.

National Cattlemen's Beef Association (NCBA) president Jerry Bohn will be on the BIU program to

give an update on issues being debated in Washington, D.C., including cattle marketing, tax policy, waters of the U.S. and others. Bohn served as KLA president in 1997 and is part owner of Pratt Feeders, which he helped manage for more than three decades.

During a session sponsored by Elanco Animal Health, Sara Place will discuss the strides made thus far in livestock production to reduce the industry's environmental footprint and highlight opportunities for further improvement. Prior to joining Elanco as their chief sustainability officer, she served as senior director of sustainable beef production research for NCBA, where she led sustainability benchmarking projects and conducted life cycle assessments of the beef supply chain.

Kansas native and former Green Beret com-

mander Mark Nutsch will be the keynote speaker at the Cattlemen's Banquet. Nutsch will share his true-life story of helping lead what is considered the most successful unconventional warfare campaign in modern history. In October 2001 he led a heroic 12-man team of U.S. Special Forces on a mission to Afghanistan, where they rode horses to successfully overthrow the Taliban. Now a consultant to Special Operations Command, Nutsch earned a Bronze Star with valor for his bravery. The events of that mission were the inspiration for the 2018 major motion picture *12 Strong*. His appearance is sponsored by Zoetis and Micro Technologies.

The Consumer Trends Forum, sponsored by the Kansas Soybean Commission, will focus on the purchasing patterns of consumers, which evolved rapidly during the pandemic. Danette Amstein, managing principal at Midan Marketing, will share insights her company gathered prior to and during the pandemic that show how livestock producers can make sure meat stays at the center of the plate. A well-respected thought leader in the meat industry, Amstein is

a Kansas native who received her animal sciences degree from Kansas State University.

KLA members will review existing policy and consider new resolutions during committee and council meetings at the convention. Among policy issues expected to be discussed are meat inspection, ag burning and land use as it relates to wind power generation. Final policy consideration will come during the general KLA membership meeting at the end of the convention.

The KLA Trade Show will feature livestock products and services on display for producers, as well as being the site for social events and meals at the convention.

Schedule and registration information is available on www.kla.org or in the November/December Kansas Stockman. All livestock producers are welcome to attend.

KLA works to advance members' common business interests on legislative, regulatory and industry issues affecting producers at both the state and federal levels. The association's work is funded through voluntary dues dollars paid by its members.

Supply chain snarls will continue to disrupt

According to a new report from CoBank's Knowledge Exchange, supply chains are arguably in the most dire condition since the start of the pandemic, as lead times for manufacturing inputs recently reached record highs. Persistent supply chain disruptions and labor shortages are adding significant

costs to business operations, and consumers will feel these effects through higher prices for months to come, *Feedstuffs* reports.

"Supply chain snarls are likely to persist well into 2022, and so will elevated inflation," said Dan Kowalski, vice president of CoBank's Knowledge Exchange division. "While pent-up demand has been a tailwind for the meat industry in recent months, the full effect of inflation is expected to test consumers' appetite for meat during the fourth quarter," CoBank noted.

The U.S. beef industry continues to benefit from elevated domestic demand and extraordinary foreign demand. U.S. beef exports are on pace to hit record levels for 2021, with Korea up 17% in volume through July, and China up 137% compared to 2020. However, Australia is on the cusp of becoming a major player in the global beef trade once again, according to *Feedstuffs*, which will increase competition for the U.S. in key export markets.

LAND AUCTION

TUESDAY, NOVEMBER 30, 2021 — 6:00 PM
Linn American Legion — LINN, KANSAS

158.2± ACRES WASHINGTON COUNTY LAND
FSA INFO: Farmland Ac.: 157.67. DCP Cropland Ac.: 130.73
HEIRS OF GREGORY J. STROMBERG, SELLERS

Download our Midwest Land & Home App On your Apple or Android and get registered to BID TODAY!

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NATIVE GRASS LAND AUCTION

THURSDAY, NOVEMBER 18, 2021 — 7:00 PM
Auction to be held at the Onaga Sr. Center — ONAGA, KANSAS

144 Acres m/l of Good, Clean Native Grass Pottawatomie County, KS Land
Property located 3 1/2 miles West & 1 mile South of Onaga, KS.
LOOK FOR SIGNS. Go to website for terms or Call.

LEGAL: NW 1/4 of 7-7-11, Pottawatomie County, KS

Auctioneer's Notes: This is a very clean pasture with a few cottonwoods scattered in the valley. The fences are very good 5 wire, 4 ponds, and located just 1 mile South of Hwy. 16. The cleanliness of the pasture and its location will make this an investment or addition to ones grass holdings. We look forward to seeing you at the Auction.

SELLER: JOLEA MATZKE

MURRAY AUCTION & REALTY
Steve Murray, Broker/Auctioneer • 785-556-4354
www.murrayauctionandrealty.com

GRASS & GRAIN presents

SMALL BUSINESS SATURDAY

Promote your business to the early shoppers in this special edition of Grass & Grain, publishing on

November 16th, 2021

Deadline: Wednesday, Nov. 10th, by 12:00 p.m.

BUY AN AD IN THIS SPECIAL EDITION AND GET A 2ND AD HALF OFF!

Half price ads will run in the Nov. 23rd edition.

Don't miss out! To get your ad in this edition, Contact your Grass & Grain sales rep today!

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shelby@agpress.com

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Sell At St. Marys

Sell Or Buy Cattle By Auction STARTING TIME 10:30 AM Tuesdays

We sold 1198 cattle October 26. Steer and heifer calves were in good demand at \$3.00-5.00 higher prices. Feeder steers and heifers were \$2.00-4.00 higher. Cows and bulls were steady.

| | | | |
|--------------------------------|--------------|----------------------|--------------|
| STEER & BULL CALVES | | | |
| 3 blk str | 408 @ 215.00 | 39 blk str | 909 @ 158.60 |
| 5 red str | 389 @ 206.00 | 8 blk/red str | 614 @ 158.00 |
| 1 red str | 350 @ 194.00 | 4 blk str | 568 @ 157.00 |
| 1 blk str | 430 @ 194.00 | 18 blk str | 808 @ 156.75 |
| 6 blk str/bulls | 421 @ 193.00 | 17 blk/red str | 861 @ 156.50 |
| 3 blk bulls | 422 @ 191.00 | 60 mix str | 929 @ 155.10 |
| 11 blk/bwf str | 470 @ 183.00 | 47 blk/bwf str | 935 @ 155.10 |
| 3 blk str | 488 @ 183.00 | 8 blk str | 619 @ 155.00 |
| 10 blk/bwf str | 506 @ 178.00 | 8 blk str | 583 @ 154.50 |
| 3 blk str | 430 @ 175.00 | 18 blk str | 586 @ 154.50 |
| 2 blk/bwf str | 370 @ 172.00 | 47 blk/bwf str | 923 @ 154.25 |
| 1 bwf bull | 285 @ 171.00 | 15 bwf str | 794 @ 154.00 |
| 2 blk/bwf str | 493 @ 170.00 | 10 blk str | 881 @ 154.00 |
| 2 blk str | 515 @ 170.00 | 4 blk/char str | 761 @ 153.50 |
| 2 blk str | 528 @ 168.00 | 9 blk str | 605 @ 153.25 |
| 12 red str | 514 @ 167.00 | 17 blk/red str | 620 @ 151.50 |
| 12 blk str | 539 @ 167.00 | 4 blk str | 749 @ 151.50 |
| 1 blk bull | 425 @ 166.00 | 4 blk str | 660 @ 148.00 |
| 3 blk/red str | 485 @ 165.00 | 4 bwf str | 604 @ 146.50 |
| 2 blk str | 508 @ 165.00 | 25 blk/red str | 692 @ 143.60 |
| 7 mix str | 546 @ 164.00 | | |
| | | HEIFER CALVES | |
| | | 4 blk/sim hfr | 223 @ 177.50 |
| | | 5 blk/bwf hfr | 436 @ 171.00 |
| | | 6 blk hfr | 510 @ 166.00 |
| | | 1 bwf hfr | 355 @ 165.00 |

| | | | |
|----------------|--------------|----------------|--------------|
| 3 blk hfr | 428 @ 161.00 | 10 blk hfr | 579 @ 147.50 |
| 7 blk/bwf hfr | 457 @ 159.50 | 12 blk hfr | 551 @ 147.00 |
| 1 bwf hfr | 415 @ 157.50 | 10 blk/bwf hfr | 742 @ 147.00 |
| 3 blk hfr | 450 @ 157.00 | 3 blk hfr | 557 @ 142.00 |
| 10 blk/red hfr | 526 @ 157.00 | 6 blk hfr | 634 @ 141.00 |
| 11 blk hfr | 492 @ 155.00 | 19 blk hfr | 595 @ 135.00 |
| 17 blk/bwf hfr | 526 @ 155.00 | | |
| 2 blk hfr | 428 @ 153.00 | | |
| 5 blk hfr | 507 @ 153.00 | | |
| 2 blk hfr | 330 @ 151.00 | | |
| 5 blk/bwf hfr | 526 @ 150.00 | | |
| 2 bwf hfr | 545 @ 146.00 | | |
| 2 char hfr | 423 @ 142.00 | | |
| 5 char hfr | 530 @ 140.25 | | |

| | | | |
|----------------|--------------|----------------|--------------|
| 1 red cow | 1370 @ 61.00 | 3 blk cows | 1332 @ 52.50 |
| 1 wf cow | 1285 @ 60.50 | 1 bwf cow | 1215 @ 51.50 |
| 1 bwf cow | 1385 @ 60.00 | 2 blk/bwf cows | 1153 @ 51.00 |
| 1 blk cow | 1405 @ 58.50 | 4 blk/red cows | 1130 @ 50.00 |
| 1 sim cow | 1395 @ 58.00 | 4 blk/bwf cows | 1256 @ 50.00 |
| 3 blk cows | 1028 @ 57.00 | | |
| 6 blk/red cows | 1146 @ 56.00 | | |
| 1 blk cow | 1240 @ 55.50 | | |
| 4 blk cows | 1254 @ 55.00 | | |
| 1 blk cow | 1170 @ 54.00 | | |
| 3 blk cows | 1222 @ 53.50 | | |
| 1 blk cow | 1560 @ 53.00 | | |

WATCH OUR AUCTIONS LIVE ON DVAuctions.com

CONSIGNMENTS FOR NOV. 2:

- 150 Angus bwf str & hfrs, 550-700 lbs., vaccinated
- 40 blk str & hfrs, 500-600 lbs., vaccinated
- 30 blk bwf str & hfrs, 500-600 lbs., vacc.
- 50 SimAngus str & hfrs, 550-650 lbs., vaccinated
- 70 Angus steers, 800-825 lbs.
- 160 blk char heifers, 750-825 lbs.
- 125 blk str, 875-900 lbs., Northern origin
- 60 blk char steers, 900-925 lbs.
- 130 black steers, 850-875 lbs.

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

LELAND BAILEY TOPEKA, 785-215-1002

LYNN REZAC ST. MARYS, 785-456-4943

REX ARB MELVERN, 785-224-6765

Livestock Commission Company, Inc.

Rezac St. Marys, Ks.

Toll Free Number.....1-800-531-1676

Website: www.rezACLIVESTOCK.com

AUCTIONEERS: DENNIS REZAC & REX ARB