

# Be aware of manganese deficiency risks this winter

By Stephanie Hansen, Iowa State University

Minerals are essential for health and reproductive success of the cow, but also support fetal development. We easily overlook minerals and vitamins in gestating cow diets, so now is the time to plan for a strong calving season. Manganese is an essential trace mineral and deficiencies have increased in recent years. Manganese supports cartilage formation and bone growth and calves born with manganese deficiency often cannot stand properly. One characteristic sign of manganese deficiency is exposure of the bottom row of teeth, as the nose is full of cartilage and is underdeveloped in deficient calves.

In many cases, manganese deficient cows were wintered almost exclusively on corn silage. Often there was no supplement provided, but even when manganese was supplemented at or above recommendations, cases of deficiency were observed. Corn silage analysis revealed excessive concentrations of iron. Iron is abundant in soil and can contaminate corn silage during harvest or if silage is stored on a dirt pad. Under conditions

of low pH, such as occurs during normal fermentation of silage, iron in the soil becomes available to the cow for absorption. Unfortunately, iron competes with manganese for intestinal absorption. When too much available iron is consumed the body shuts down absorption to prevent iron toxicity, and manganese absorption is decreased.

To prevent manganese deficiency in your herd this winter, consider the following strategies:

Get a nutrient analysis of your silage, including the minerals to see if high iron is a problem (higher than 300 ppm iron is suspect.)

Include minerals and vitamins in your supplement.

Monitor cattle intake if you are using a free choice mineral, and

If you know your silage is high in iron provide at least 60 ppm manganese in the diet and consider a more bioavailable form of Mn (like a chelated Mn, or use an injectable Mn).

Optimal mineral nutrition of gestating cows will not only support health and production of the cow but also ensure the calf gets off to a good start in 2021.

# Governor Laura Kelly announces start to 2021 Exporter of the Year Award nominations

Governor Laura Kelly has announced that the Kansas Department of Commerce is now accepting nominations for the 2021 Governor's Exporter of the Year Award.

The Governor's Exporter of the Year Award is the highest honor the Governor of Kansas awards to businesses. Exporters of the Year are considered best in class in conducting overseas business from Kansas and are honored as examples of our state's excellence in exporting to countries around the world.

"The Governor's Exporter of the Year Award is our state's way of honoring its greatest ambassadors — Kansas businesses," Kelly said. "Kansas businesses create outstanding products sought around the globe, and we're proud to share those creations with people worldwide. This award is dedicated to one company each year that demonstrates unique creativity, innovation, and strength of character as an exporter."

To nominate a business, including your own, visit <https://www.kansascommerce.gov/governors-exporter-of-the-year-nomination-form/>.

The International Division at the Kansas Department of Commerce oversees the process of selecting Exporter of the Year. In 2019, Governor Kelly reestablished the International Division, and since then the division has helped exporters and foreign investors achieve success in our state, with more than \$650 million in capital investment coming from international businesses in 2020.

"Our state excels at exporting, and it's because of the dedication, creativity, and commitment of extraordinary companies like the ones honored through this award," Secretary of Commerce David Toland said. "If you know of a business deserving of the highest award our state offers to exporters, this is a terrific opportunity to make sure they're recognized."

To be eligible to receive the award, companies must be in good standing with the state and currently operating in and exporting from Kansas. Nominations must be received by Jan. 31, 2021. There are no restrictions on who may nominate a company for the award.

# 4-H youth, volunteers leading local efforts to 'Beat the Virus'

An ambitious group of Kansas 4-H members and adult volunteers recently took the bull by its proverbial horns in helping their communities cope with the ongoing grind of the COVID-19 pandemic.

They are helping to lead local discussions on the challenges that people are facing during a time when they are staying at home more, seeing friends less and — in some cases — missing out on family gatherings.

Aliah Mestrovich Seay, a youth development specialist for community vitality, said the 4-H members' efforts are part of the statewide program, Kansas Beats the Virus, a public health partnership between the Kansas Leadership Center and the State of Kansas.

Throughout December, the Kansas Leadership Center is helping to fund groups to lead community

meetings and inspire local solutions to keep Kansans healthy, schools and businesses open, and the economy strong.

The KLC set a goal to host 1,000 community meetings in December. As of the middle of the month, the organization reports 1,150 meeting commitments, and 209 action plans launched in Kansas communities.

In most instances, the KLC provides trained professional facilitators to guide local meetings. In the case of Kansas 4-H, however, the organization is lending a helping hand by providing youth and adult facilitators that have received training through its Community Conversations program.

"I think the KLC thought that was pretty amazing that we have these youth and adults that are trained in positive youth development and know how to fa-

cilitate community conversations," Mestrovich Seay said.

According to Mestrovich Seay, 4-H youth and volunteers will help lead 20 community meetings by the end of December. Some ideas that have come from the conversations include volunteers making goodie bags for essential care workers — "including a handwritten 'Thank You' note," she said — and promoting a social media hashtag encouraging people to stay connected at a distance.

"I think this was the perfect time to do this type of activity because morale is down, people are tired, it's the holidays, and this is when we typically get to see family and friends, do caroling... (but) we aren't going to be able to do those in the same way as we've done before," Mestrovich Seay said.

"Youth are able to

speak to the fact that they miss their friends, but that they want to stay safe and they want to be leaders in their community to promote healthy living," she said. "I would say this activity not only created safer local environments, but also boosted morale. They are truly living out their 4-H pledge to pledge their health to better living."

In some early meetings, Mestrovich Seay said it was "interesting to see first-hand what youth are really thinking about."

"Some of them expressed worry about the fact that they could be asymptomatic and could carry or spread that to a high-risk family member, or to their grandparents or a very young sibling. To hear them speak so eloquently, in an educated way, about this virus, I was really impressed not only by the background infor-

mation they had but also how they put their understanding into practice to stay safe and better their community."

A growing number of 4-H youth continue to receive training in facilitat-

ing community conversations around many topics. Persons interested in hosting a conversation led by youth in their area can contact Mestrovich Seay by email, [aliah@ksu.edu](mailto:aliah@ksu.edu).

# NPPC applauds Regan nomination to head EPA

President-elect Joe Biden has nominated Michael Regan as the next administrator of the Environmental Protection Agency (EPA). Regan most recently led the North Carolina Department of Environmental Quality (DEQ). The following statement may be attributed to National Pork Producers Council (NPPC) President Howard "A.V." Roth, a hog farmer from Wauzeka, Wisconsin.

"NPPC congratulates Michael Regan on his nomination. As DEQ secretary in North Carolina, a leading pork-producing state, he always had an open door, valued diverse points of view, and worked to find solutions that ensured science and data were guiding decisions. We hope those same qualities will be carried over to his leadership at EPA. We look forward to working with him on issues of importance to U.S. pork producers, as we continue to produce the highest-quality, most affordable and nutritious protein in the world."

Regan's nomination will be considered by the U.S. Senate when the chamber convenes in January.

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There was no sale held Friday, December 25th

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- 118 blk str & hfrs, 1 complete rd Fall shots, weaned 60 ays, 500-700 lbs.
- 70 choice reputation Angus Gelv X str & hfrs, weaned 45 days, 2 rds shots, 550-700 lbs.
- 200 Reputation Blk str & hfrs, 2 rds shots/ weaned mid Sept., 600-850 lbs.
- 23 Blk str & hfrs, 2 complete rd shots/ weaned 70 days, 550-650 lbs.
- 80 Choice Blk BWF str & hfrs, Spring & Fall shots/ weaned Nov., 550-700 lbs.
- 130 Home raised Blk & Red Cross str & hfrs, 2 complete rd shots/ weaned Oct. 10., 750-900 lbs.
- 60 Choice Reputation Blk BWF str & hfrs, 2 complete rd shots/ weaned Oct. 31, 700-825 lbs.
- 67 Choice Blk BWF str & hfrs, weaned Nov. 27, green, 500-650 lbs.
- 40 Red Angus & blk Angus str, 2 rd shots, bunk broke, long weaned, 750-850 lbs.
- 50 Blk Hinkson Angus sired str & hfrs, weaned Oct., 2 rds shots, 600-700 lbs.
- 70 Blk & Red mix str, long weaned/ 2 rds shots/ green, 775-800 lbs.
- 70 Blk BWF hfrs, long weaned/ 2 rds shots/ green, 750-775 lbs.
- 15 Angus str & hfrs, weaned/ 2 rds shots, 700-750 lbs.
- 40 Blk str & hfrs, long weaned/ 2 rds shots, 400-700 lbs.

EARLY CONSIGNMENTS FOR JAN. 15

- 20 blk str & hfrs, 3 rds shots, poured and wormed, weaned 45 days, 500-650 lbs.
- 50 blk Angus & Red Angus hfrs, 2 rds shots, long weaned, bunk broke, 650-750 lbs.

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- 20 Choice reputation home raised Angus 1st calf OCV hfrs AI bred to Barretts Bud and Barretts Walt April 30 cleaned up with Barretts Overdrive.
- 45 Big fancy Montana origin ¾ Angus ¼ Simm 1st calf hfrs, AI bred to ¾ Angus ¼ Simm Bull May 10, cleaned up w/ ¾ Angus ¼ Simm Bull. Hfrs have all shots including 1st rd of Scourguard.
- 40 Ang & F1 baldy 1st calf, OCV hfrs, bred Kaiser Angus hfr bulls to calve Feb. 1 - Mar. 15. All shots, poured, 1 rd Scourguard.
- 20 Char Angus cross 1st calf OCV hfrs, 30 mo. old, bred to Moser Genetic LBW Angus bull for Feb.-Mar. calves. 1st rd Scourguard.
- 20 blk Angus 1st calf OCV hfrs, 30 mo. old, bred to Moser Genetic LBW Angus bull for Feb.-Mar. calves. 1st rd Scourguard.
- 20 Red Angus 1st calf OCV hfrs, 30 mo. old, bred to LBW Red Angus bulls for Feb.-Mar. calves. 1st rd Scourguard.
- 15 Home raised blk X 1st calf hfrs, w/ Angus sired Dec. 1-Dec. 10 calves by side.
- 45 big fancy Angus 1st calf OCV hfrs, bred to LBW Bredemeier Angus bulls Feb. 15 for 60 day calving. 1st rd Scourguard given.
- 6 home raised 1st calf blk cross commercial OCV hfrs from reputation closed herd. AI bred to Ozzie or Concord for Feb. 8 calving, cleaned up 50 days w/ Fink calving ease bull. 1 rd Scourbos.

BRED COWS

- 105 blk & bwf cows, 3-6 yrs bred Angus bulls, Apr.-Jul. 1 for early Spring calves. Cows worked Nov. 12, Virashield 6 plus VL & Sydectin pour on.
- 5 blk Simm Angus cows, 6-7 yrs, bred LBW blk Angus to start calving.
- 25 blk cows, 3-5 yrs, bred Angus bulls for Feb.-Mar. calves.

PAIRS

- 20 blk & bwf cows, 3-6 yrs w/ Nov.-Dec. calves by side. Calves banded plus blk leg, cows Virashield 6 plus VL plus Sydectin pour on.
- 14 blk cows, mostly 3-5 yrs w/ 30-60 day Angus sired calves.
- 20 blk & Red cows, 3-5 yrs w/ Angus sired calves by side.

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# Fences are moving property lines: squatter's rights

By James Coover, Crop Production Agent, Wildcat and Southwind Extension district

K-State Research and Extension will be hosting a Land leasing and Law Meeting on January 23rd virtually as well as in person at the Southeast Research and Extension Center in Parsons. We will cover how to create simple, but well-defined written leases, laws when it comes to leasing, and the results of a recent leasing survey in the Wildcat District. Please call a K-State Research and Extension Wildcat or Southwind District office to register (Altamont, 620-784-5337).

Fences, property lines, and adverse possession of land can be one of the most contentious issues in agricultural law. The laws, no matter which state you are in, are complex, usually very old, and not always well-defined. This article is to state what my understanding of the property boundaries laws are based on various state extension publications and is not meant to be a substitute for an attorney's advice.

## The Partition Fence

A partition fence is the fence that is between two property lines and the majority of property lines have them. The issue is that not all fences are on the original property line. As hedge rows were planted, old fences were abandoned, and new fences were built, the original lines recorded in the county courthouse might not be where expected. Unfortunately, that nearly always means that someone has gained ground and someone

has lost ground, which is where the issues arise.

## Adverse Possession

Under adverse possession, a landowner may acquire title to a property by making open and notorious use of that property for 15 years in Kansas and ten years in Missouri. Notorious in this sense means the usage is not in secret and the usage is obvious (such as grazing livestock and fertilization). The use of the land must be "hostile" which means the land isn't being rented or contractually granted.

Usually the instances of adverse possession is that the adverse possessor does not know they are on another's person land (adverse meaning unknown). The usage of the land needs to be exclusive, as in it can't be a driveway that is used by two land owners. The usage also needs to be continuous, so not divided into separate periods and possessed by a single party during that period. Usually these property/fence lines go uncontested for decades. However, problems arise when a land survey or some type of record inspection reveals the original lines. In both Kansas and Missouri, a land survey can't move a property line, only a court order can do that. The payment of property taxes also doesn't affect the laws of adverse possession. One way to officially move a property line and make it "marketable of record," is a quit-claim deed. This is a signed, notarized, and courthouse recorded agreement between adjacent landowners that should be done with an attor-

ney's advice that is intended to keep a settlement out of the court system.

These laws of adverse possession make it important for land owners to protect themselves, or more likely, future inheritors or the land. If a fence is moved off a tree line, first it would be good to know if the tree line really was the original property line. A boundary agreement affidavit of sorts can be made and filed between landowners declaring the property line, removing the "adverse" part of adverse possession. I would assume that permanent markers upon the actual property line would help with future issues. Looking at the Open Records for Kansas Appraisers maps could be an easy first step, but they are meant for land valuations and taxes and aren't necessary accurate enough for property line disputes.

This article was written using publications from Roger McEowen, Washburn Professor of Ag Law, and Joe Koenen, Missouri Extension Specialist. If you have any questions about finding agricultural law publications, please contact your local Extension office. However, any legal dispute over property line is an issue for an attorney and the court system. The Kansas Agricultural Mediation Services (KAMS) is a part of K-State Extension that can help mediation and legal assistance.

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

# Tips for managing does in late gestation

By Adaven Sronce, diversified agriculture and natural resource agent, Wildcat Extension District

As a child during the month of December, I would be anxiously await for Christmas, excited to see what presents I would find under the tree Christmas morning. Now, I get just as excited for kidding season and for the first set of kids to hit the ground. I would guess that many producers feel the same way. While anxiously waiting for the first set of 2021 kids to hit the ground in the coming months, now is the time to make sure the nutrient requirements of does are being met to help ensure strong, healthy kids and does in the spring.

While making preparations for kidding season, ensuring that there is adequate shelter for does and kids and that you are stocked up on all the supplies you may need, it is also important to ensure that does are receiving the nutrients they need during the last four to six weeks of gestation, also referred to as late gestation. During

late gestation, about 70 percent of fetal growth occurs; as the fetuses grow and take up more rumen capacity will decrease. While the energy and protein requirements of the doe increase during late gestation, her rumen capacity decreases. This is because of the decreased rumen capacity there is not enough space in the rumen for the doe to meet the higher nutrient requirements by consuming more feed. Instead the doe must consume higher quality, more nutritious feed. Due to increased energy demands to support fetal growth supplemental nutrition is usually required, especially for does that are carrying multiple fetuses (twins, triplets, quads). As a result, the doe's nutritional requirement of both energy and protein will increase. Meeting the nutritional needs of the doe by ensuring the doe has access to good quality forage along with supplementing with grain if needed, will help ensure does are consuming adequate nutrients to support

fetal growth, help prevent pregnancy toxemia (ketosis) and milk fever, and help ensure the arrival of strong, healthy kids.

Nutrient requirements will vary by age, weight, body condition, number of kids, and weather. To meet the increased nutrient requirement of late gestation, it is usually necessary to supplement with grain, especially if the quality of available forage is low. Generally, does require 12 percent protein and 60 percent total digestible nutrients (TDN) during late gestation. To find out the amount of protein and TDN in your hay you can send in a hay, sample in to be tested. Pregnancy toxemia (ketosis) is caused by decreased blood glucose levels (blood sugar) and a rapid breakdown of fat to maintain blood glucose levels and meet energy requirements. Not meeting the nutrient requirements of does can result in pregnancy toxemia (ketosis), low birth weights, weak kids, and poor milk production. Calcium is also an important part of the diet for pregnant does as it is needed for bone development in kids and milk production, needing around .4 percent calcium in their diet. If does do not receive

enough calcium in their diet or have too much calcium during late gestation it can result in milk fever. The ratio of calcium to phosphorus should range from 2:1 to 1:1 for pregnant and lactating does. Milk fever (hypocalcemia) is a blood calcium deficiency due to the body's system not being able to activate and mobilize calcium, which most commonly occurs in dairy does right before or after kidding.

While it is important to make sure the nutritional requirements of does are met, it is also important to make sure does are not overfed, as overfeeding can result in overweight does that have an increased risk of difficult births due to larger kids, and pregnancy toxemia (ketosis). It is important to meet the doe's nutritional needs, but not exceed those nutritional needs by overfeeding grain. Meeting the nutritional requirements for does includes managing the way they are fed as well as what they are fed. When supplementing with grain, weigh the grain to ensure they are being fed the correct amount to meet their nutritional requirements. Do not feed on the ground, make sure the feeders are

clean and feed is not going to waste. Ensure there is adequate space at the feeder(s) for all does to eat at a feeder at the same time. Feed does that need supplemental feeding separately from does that do not need extra feed. Encourage exercise by placing feed and water in different areas of the pasture and remember when feeding grain to increase the amount they are being fed gradually. It is also important to remember that water is the most important nutrient and water requirements increase during pregnancy, almost doubling during the last month of pregnancy. Water should be clean and ice-free to ensure adequate intake. If animals do not drink enough water, it can reduce dry matter intake.

Along with ensuring the nutrient requirements of does are met, it is also important to check does during late gestation to see if the need to be dewormed. To determine which females need to be dewormed, check their

FAMANCH score, evaluate their body condition and hair coat, and/or collect a fecal sample for a fecal egg count. Three to four weeks before kidding, does should be vaccinated for colostrum diseases and tetanus, as late gestation vaccinations are important to protect kids against enterotoxaemia (clostridium perfringens type C). To vaccinate does, CD/T or Covexin-8 can be used. When kids are born they do not have a fully functioning immune system. By giving the doe a CD/T or Covexin-8 booster before kidding, it will protect the doe and the kids will receive passive immunity through the colostrum and milk. Also remember when working does during late gestation, to handle them in a low-stress environment to make the process the least stressful for the does as possible.

For more information, please contact Adaven Sronce, Diversified Agriculture and Natural Resource Agent, adaven@ksu.edu or (620)331-2690

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**Marshall applauds final passage of SALE Act**

The COVID relief package passed by Congress included legislation introduced by Rep. Roger Marshall, M.D. to provide much-needed payment protections for livestock sellers.

"As a teenager, I spent three years of weekends working at a sale barn in El Dorado," said Marshall. "And while that was hard work, today's world of cattle is a little more complicated than when I was sorting heifers and steers. Unfortunately, we've seen too many instances of sale barn owners holding hot checks passed by cattle dealers with empty bank accounts. This bill will help protect those businesses and the producers working with them and assure that both are fully compensated for their animals. Protecting our livestock owners has been a top priority for me during my time in Congress, and I am honored to see this legislation finally made into law."

The bipartisan Securing All Livestock Equitably (S.A.L.E.) Act, was first introduced by Rep. Marshall in the House in October 2017. The S.A.L.E. Act will place livestock sold to a dealer, and proceeds/receivables from already sold livestock in a trust until the original seller has been paid, ensuring that producers and livestock auctions have a legal recourse in the event of a dealer default and/or bankruptcy.

"I appreciate the help of the Livestock Marketing Association and Senator Pat Roberts, Chairman of the Senate Agriculture Committee, for their help in moving this legislation forward and ensuring its final passage," Marshall said.

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# Kansas Hay Market Report

\*\*\*DUE TO THE CHRISTMAS HOLIDAY, THE NEXT REPORT WILL BE ISSUED JANUARY 5TH, 2021

Hay market prices for the week ending December 19 were steady, demand remained strong and movement only 105 tons less than the previous week. Alfalfa continues to strengthen, across the state, and is hard to find according to contributors in the southwest. According to U.S. Drought Monitor for the week of December 8th, southwestern Kansas saw modest improvements including a reduction in areas of Moderate Drought (D1) in southwestern Kansas where recent snowfalls have helped to improve local conditions. Abnormal dryness (D0) decreased to 22%, moderate drought (D1) remained at 40%, severe drought (D2) decreased to 9.5%, and extreme drought (D3) remained at 10%. If you have any extra hay to sell and/or need hay here in Kansas, use the services of the Internet Hay Exchange: [www.hayexchange.com/ks.php](http://www.hayexchange.com/ks.php).

## Southwest Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered steady; movement good to moderate. Alfalfa: horse, premium small squares 250.00-260.00. Dairy 1.00-1.05/point RFV, Supreme 185-237.00.00, Premium 170.00-195.00, Good 150.00-178.50. Stock or Dry Cow 155.00-165.00. Grinding alfalfa 150.00-160.00, with instances at 165.00-170.00. Ground and delivered locally to feed lots and dairies, 160.00-175.00 with an instance at 180.00-195.00. Grass Hay: small squares none reported, large 4x4 squares 100.00-110.00, large rounds none reported; Sudan: large round 85.00-90.00. Sorghum: large rounds 80.00-90.00;

Corn Stalks: ground and delivered 70.00-75.00; Wheat straw, small squares 3.50-4.50/bale, large 3x4 squares 80.00-90.00. The week of 12/13-12/19, 7,794T of grinding alfalfa and 2,975T of dairy alfalfa was reported bought/sold. The average paid by feedlots on December 1 for alfalfa ground and delivered was 156.33, up \$1.23 from the previous month, usage was 617T/day, up 10% and total usage was 18,502T.

## South Central Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, alfalfa pellets, steady; movement moderate. Alfalfa: horse, small squares 255.00-275.00. Dairy, 1.00/point RFV, Supreme 185.00-225.00, Premium 170.00-195.00, Good 150.00-178.00. Stock cow, 150.00-160.00. Fair/good grinding alfalfa 135.00-145.00 delivered. Ground and delivered 150.00-165.00. Alfalfa pellets: Sun cured 15 pct protein 190.00-205.00, 17 pct protein 200.00-210.00, Dehydrated 17 pct 305.00-310.00. Grass Hay: Bluestem, 3x4 and 4x4 squares 100.00-110.00, large rounds 60.00-90.00. Brome: large 4x4 squares 100.00-120.00, large rounds 95.00-100.00. Tef: large 3x4 squares 135.00-145.00, large rounds 120.00-130.00. Sudan: large rounds 75.00-85.00. Milo ground and delivered, 85.00-95.00. Corn stalks: large squares, 65.00, large rounds 60.00. Wheat straw: large 4x4 squares, 65.00-75.00. The week of 12/13-12/19, 7,589T of grinding alfalfa and 170T of dairy alfalfa was reported bought/sold. The average paid by feedlots on December 1 for alfalfa ground and delivered was 136.12, up \$3.49 from the previous month, usage was 303T/day, up 2% and total usage was 9,093T.

## Southeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady, grass hay steady; movement slow to moderate. Alfalfa: horse or goat, 230.00-240.00. Dairy 1.00-1.05/point RFV. Stock cow 150.00-160.00. Fair/Good grinding alfalfa, large rounds 130.00-145.00 delivered. Ground and deliv-

ered, none reported; Grass hay: Bluestem, small squares 120.00-125.00, good 3x3 squares 100.00-125.00, good, 3x4 squares 100.00-120.00, large 4x4 squares 100.00-110.00, large rounds 70.00-80.00. Brome, good, small squares none reported, 3x4 to 4x4 squares 95.00-125.00, large rounds 75.00-85.00. Wheat Straw: 3x4 and 4x4 squares 60.00-70.00. The week of 12/13-12/19, 1,640T of grass hay was reported bought/sold.

## Northwest Kansas

Dairy alfalfa, ground/delivered steady, grinding alfalfa steady to 10.00 higher; movement slow. Alfalfa: Horse or goat, 220.00-230.00. Dairy, Premium/Supreme 1.00/point RFV. Stock cow, fair/good 145.00-155.00. Fair/good grinding alfalfa, 120.00-140.00. Ground and delivered locally to feedlots and dairies, none reported. Sudan, large rounds 60.00-70.00. Wheat straw, large squares none reported.

## North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered, grass hay, steady; movement slow. Alfalfa: horse, premium small squares, 9.00-10.00/bale. Dairy 1.00-1.05/point RFV, Supreme 185-237.00.00, Premium 170.00-195.00, Good 150.00-178.50. Stock Cow, 150.00-160.00.

Fair/good, grinding alfalfa, 115.00-125.00. Ground and delivered 130.00-150.00. Grass hay: Bluestem, small squares 5.50-6.50/bale, 3x4 to 4x4 squares 100.00-105.00, large rounds 60.00-90.00. Brome, small squares 6.50-7.50/bale, 3x4 to 4x4 squares 110.00-120.00, large rounds 75.00-85.00; Sudan, large rounds, 60.00-65.00. Wheat Straw: small squares 5.00-6.00/bale, large 4x4 squares 75.00-85.00, 100.00-110.00 delivered, large rounds 65.00-75.00. The week of 12/13-12/19, 1,443T of grinding alfalfa and 367T of dairy alfalfa was reported bought/sold.

\* Posted by Kim Nettleton, Kansas Department of Agriculture

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

# CoBank: COVID-19 will continue to steer economy throughout 2021

A new report from CoBank details ten key factors driving and shaping the economy in 2021. There is one big factor that weighs heaviest on the pace for economic recovery—the speed and reach of the COVID-19 vaccinations. CoBank expects that as the vaccine is distributed more broadly, the latter half of 2021 will show stronger consumer demand.

“The coming year will be a recovery year for most Americans and the businesses that make up the U.S. economy,” said Dan Kowalski, vice president of CoBank’s Knowledge Exchange division. “The early part of the year should look very different than the latter, but in total, economic growth is estimated to be about 4%, following a retreat of roughly 4% in 2020.”

We march through the final days of 2020, here are those ten factors to watch in 2021:

## 1. Global Economy: Uneven Recovery Ahead

CoBank economists say COVID-10 will steer the global economy in 2021 and the pandemic will continue the trend of uneven economy recovery. It’s noted China has recovered fastest from the pandemic, and Europe has suffered the most. The pandemic’s long-tail will be the government debt around the world.

From CoBank: “Our confidence in GDP forecasts has increased since mid-2020, but uncertainties related to the dissemination and uptake of vaccines mean timing the recovery is still exceedingly difficult.”

## 2. U.S. Economy: COVID is Still the Economy

The next couple of months are critical in for domestic economy as fiscal policy decisions are made.

From CoBank: “Roughly 10 million Americans who lost their jobs early in the pandemic have yet to find work, and many of them are receiving some form of public support. If and how Congress chooses to fund further relief will impact the speed of the recovery.”

## 3. Monetary Policy: Less Dramatic but No Less Critical

CoBank cites central banks as “economic heroes” through the pandemic, giving the Federal Reserve’s quick action in the early weeks and continued stabilization as an example.

From CoBank: “With short term interest rates firmly at zero, the Federal Reserve will manage a few levers in the coming year, advocating for fiscal policy and keeping a close watch on longer-term rates and inflation, among other things.”

## 4. U.S. Government: Sweeping Leadership Changes

With the new Biden administration and narrow margins of power in Congress, CoBank cites managing the pandemic as the primary focus before infrastructure, trade policy, social justice or climate change can take precedence.

## 5. U.S. Farm Economy: A Strong 2020 Finish Boosts Potential

After more than one-third of net farm income from government payments in 2020, the new year starts with higher commodity prices and low interests, which will provide an “important financial buffer” in the year ahead. CoBank expects farmland values to remain stable in 2021.

## 6. Specialty Crops: Preparing for More Shifts in Consumer Demand

Less foodservice and

more food being bought via retail has brought historic shifts in logistics and supply chains. This will bring further adaptation in the specialty crop industry.

From CoBank: “Some growers, packers, and processors have successfully managed to increase or reroute products into retail channels like grocery stores and home delivery of food boxes. However, steep financial losses from the loss of foodservice contracts will ultimately result in the rationalization of some processing assets and production acreage.”

## 7. Grain, Farm Supply and Biofuels: Recovery in Motion

From CoBank: “The outlook for grain is more favorable than a year ago, although carry has evaporated with the inversion of futures prices. The outlook for farm supply cooperatives is positive for 2021 following a very orderly harvest, rising grain prices and decent farm liquidity. The ethanol outlook is stable but guarded, with considerable growth and margin opportunities favoring ethanol co-products vs. fuel. After experiencing a near 50% reduction in demand during mid-March 2020 to mid-April 2020, fuel ethanol in the U.S. has recovered to about 90% of pre-COVID levels.”

## 8. Dairy and Animal Protein: Higher Feed Costs and Restaurant Reboot

The top challenge for livestock in the year ahead is shaping to be rising feed costs as corn and soybean meal prices are at multi-year highs. Domestic demand is dynamic with the changes in foodservice demand, and international demand is also in question.

From CoBank: “China’s rebuilding of the nation’s

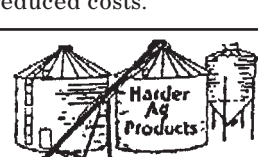
hog herd brings into question its appetite for foreign protein in 2021 as supplies climb. The U.S. dairy sector stands to benefit from the rebound in Chinese hog production with dry whey used as a protein supplement in China’s hog feeding rations.”

## 9. Rural Electricity: From Reactive to Adaptive

One big area of change CoBank expects in 2021 is an increase in solar. Its economists point to one report claiming solar is the cheapest form of energy in history and business leaders are pointing to the renewable source to be included in climate change mitigation efforts.

## 10. Rural Communications: Big Spending Not Likely, But Regulatory Change Is

From CoBank: “We expect a good bit of gridlock in Washington in 2021. It’s likely that any COVID-related stimulus will focus on near-term economic needs versus investing in projects that take years to produce results. That leaves the Federal Communications Commission (FCC) as the remaining institution in Washington to enact policies that will help rural communication providers. In 2020 the FCC held its Citizens Broadband Radio Service (CBRS) spectrum auction that was much more rural friendly than any of its past auctions. And as a result, rural operators are now able to build carrier-grade fixed wireless networks at significantly reduced costs.”



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# Biden makes EPA, Interior, climate czar appointments

President-elect Joe Biden announced he will nominate Michael Regan, North Carolina’s top environmental regulator, to head the EPA. The nomination would put Regan in charge of the agency set to carry out Biden’s climate change plans, which call for eliminating carbon dioxide emissions from the power grid in 2035 and putting the country on a path toward net-zero emissions by 2050.

Biden is also expected to name Gina McCarthy, Obama’s former EPA administrator as the White House climate czar, a new high-level role tasked with spearheading the government’s domestic response to climate change. McCarthy will join John Kerry, former Secretary of State, who will lead the nation’s international response.

Biden also announced New Mexico Rep. Deb Haaland will lead the Interior Department.

# Kansas milk production increases six percent

Milk production in Kansas during November 2020 totaled 336 million pounds, up 6% from November 2019, according to the USDA’s National Agricultural Statistics Service. The average number of milk cows was 173,000 head, 8,000 head more than November 2019. Milk production per cow averaged 1,940 pounds.



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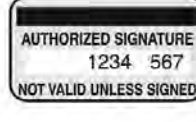
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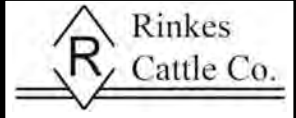
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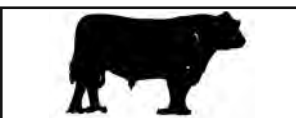
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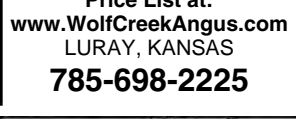
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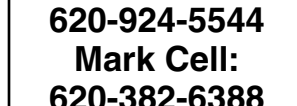
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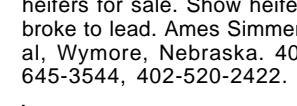
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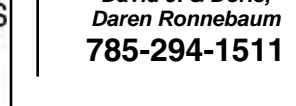
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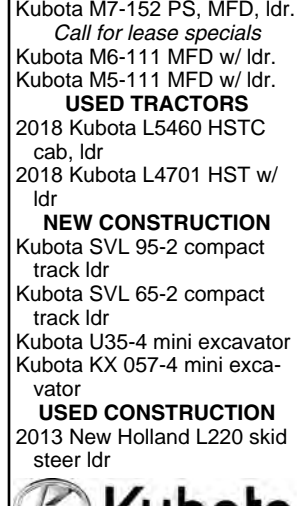
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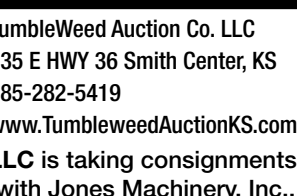
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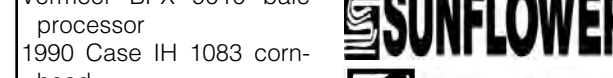
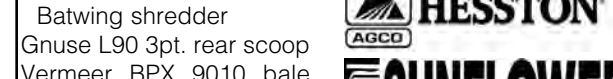
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**After the holidays, here's what to do with your Christmas tree**

Once the holiday season has passed, homeowners still have at least one pretty important job to do: Disposing of the Christmas tree properly.

Kansas State University Extension forestry specialist Charles Barden notes many towns in Kansas offer curbside pickup for Christmas trees, which are then ground up for mulch or burned.

Short of that – or if you miss the designated date in your community – some other ideas that he offered include:

Tie the tree to the corner of a backyard deck, deciduous tree or to a post near a bird feeder. Then spread some birdseed. The tree will provide cover for predators and block the wind on cold nights.

Sink the tree in a pond to improve fish habitat and fishing. The tree serves as a coral reef for minnows and other smaller aquatic life. Larger fish are drawn by the shade and presence of prey.

“To sink a tree, tie the base to a cinder block with a short, stout rope, and toss it in,” Barden said. “Just be sure to get permission from the pond owner first.”

Clip branches and use them for insulation and mulch for semi-hardy plants like roses. Split and dry the trunk for kindling; however, pitch pockets in the wet wood can explode when burned, sending hot embers up the chimney or across the room. Thus, Barden discourages burning a green Christmas tree inside.

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

Other holiday-related tips from the newsletter include:

Caring for fruit baskets. Keep fruit in cool conditions to preserve its quality as long as possible. Thus, it is wise to disassemble the basket as soon as you receive the gift. Store bananas and other tropical fruits separately. With proper care, fruit may be able to be eaten three to four weeks after unwrapping the basket.

Storing pecans and other nuts. Excessive water loss can lead to shriveled nutmeats, and the fats and oils can quickly spoil (develop an off-flavor or rancid taste). Nuts quickly absorb flavors from other products, so store them in a tightly sealed container. If stored properly, nuts can be stored in a freezer for up to one year, but using them within six months is preferred.

Interested persons can send their garden- and yard-related questions to Ward Upham at [wupham@ksu.edu](mailto:wupham@ksu.edu), or contact your local K-State Research and Extension office.



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# KLA members approve policy for coming year

Policy focused on taxes, trade, noxious weeds, raw milk labeling and inspection, and other key issues was approved by members of the Kansas Livestock Association (KLA) during the group's annual business meeting held virtually December 17. Ranchers, feeders and dairymen provided input during regional roundtable meetings in the fall and committee and council meetings that took place virtually over the past few weeks, with final approval coming from the general membership.

"KLA policy is developed through broad member input," said KLA president Jerry Kuckelman, a cattle feeder from Manhattan. "The resulting resolutions will direct officers and staff as we represent the membership on various issues during 2021."

Members voted in favor of a new resolution regarding raw milk labeling and inspection. The policy supports legislation that requires raw milk to be conspicuously labeled with a food safety warning label. It also supports legislation requiring all dairies to meet the same basic Grade A or Grade AA inspection standards as dairies that sell milk to a processor.

Existing policy regarding income taxes was amended

to support deductions or exemptions that ensure equal competition among agricultural lenders and equal access to credit for agricultural borrowers.

Policy focused on trade was amended by the membership to reflect support for bilateral and multilateral trade agreements that benefit agriculture. It also supports protecting the use of modern agricultural technology in bilateral and multilateral trade agreements. The policy originally was specific only to North American trade agreements.

An amendment was made to policy surrounding the control of noxious weeds. The policy suggests government should share financial responsibility for control of invasive plants, on private land, introduced by state and federal agencies without unnecessarily restricting the ability of landowners to utilize and manage their property.

Members reaffirmed policy containing the association's Statement of Operating Principles, which opposes attempts to narrow the business options or limit the individual freedom of livestock producers to innovate in the management and marketing of their production

unfettered by additional government regulations.

A resolution focused on environmental regulations was reaffirmed. The policy supports legislative, judicial or administrative actions to minimize the effects of environmental laws, regulations or judicial determinations on livestock operations. It also supports maximizing economic opportunities for agricultural and livestock operations to meet such regulations. Additionally, the policy supports actions that allow maximum flexibility for such operations to meet regulatory obligations.

Additionally, members reaffirmed policy that supports strengthening penalties for anyone vandalizing or gaining unauthorized entry into a livestock facility.

In all, KLA members approved 64 resolutions for 2021. Other issues addressed in KLA policy range from animal health to cattle marketing to resource conservation.

KLA is a 5,700-member trade organization representing the state's livestock business on legislative, regulatory and industry issues at both the state and federal levels. The association's work is funded through voluntary dues dollars paid by its members.

## Behind the brand – what makes the Certified Angus Beef brand tick?

By Abbie Burnett

On the outside, clocks look simple. But the plain cover hides the famously complex yet dependable system of gears and circuitry known as clockwork. It's a lot of production for an effective tool. The Certified Angus Beef® (CAB®) brand can look like that. A company working for cattlemen and women, driving demand for high-quality cattle through great eating experiences. But what complex system behind the scenes makes it work?

Kara Lee, assistant director of producer engagement for the brand, answered such questions at the November webinar,

"Getting to know the Certified Angus Beef brand."

She began with the roots, established more than 42 years ago by Angus breeders who believed they had to do better: "Better in terms of raising high-quality cattle that meet consumer expectations, and better in terms of offering the consumer a higher level of confidence that they can receive something that meets their consistent quality expectations every single time."

The only beef brand owned and operated by the American Angus Association, Lee said all funding for the extensive global program comes

from packer commissions, paid because they can sell the branded products for more.

"The way that we build demand is by ultimately meeting our brand promise to consumers—and our licensees who serve them—by having a consistent premium product every single time," she said.

The brand is unique, Lee added, because it owns neither beef nor cattle. It can't buy cattle or have any involvement in the price structure or determining who cattlemen sell to.

Demand, then, is built by the created, pull-through model by which consumers seek the brand by name and consistently have the same great eating experience.

Which makes brand integrity the key to the clock.

Lee said the brand is also unique in tracking every pound from packing plant to those who sell to consumers. "We make sure that at no point along the way is any distributor, processor, retailer or restaurant selling more product than they're buying."

Surveys show 95% of consumers recognize the logo and associate it with quality, she said. By licens-

ing and auditing packing plants, retailers, distributors and restaurants, the brand makes sure that perception stays true. Research even shows a willingness to drive a little farther for a grocery store or restaurant where they can buy beef with the CAB brand.

"When the consumer recognizes our logo and affiliates it with quality, we are able to achieve our overall mission statement, which is all about increasing that demand for registered Angus cattle through the specification-based program," Lee said. "While many pieces in this beef supply chain can feel very segmented, we know they're all very directly tied together in achieving that overall mission."

Despite 2020's struggles, the brand surpassed sales of a billion pounds for the fifth year in a row. Demand, indeed.

But how do cattle make it into the brand? With Rolex-level precision.

First, Lee noted "Angus" in-and-of-itself it not a guaranteed quality level. More than 70 other brands of USDA-certified programs use the Angus word, all of which run the spectrum of quality from

lowest to highest.

Only about three in ten Angus-influenced cattle meet all of CAB's science-based standards. That's why, Lee said, the brand vigilantly protects its three-word name.

"Just talking about Angus beef isn't good enough for the customer today, so it can't be good enough for us as a program," Lee said.

The initial threshold to qualification is simply Angus influence with black hide behind the shoulder, above the flank and in front of the tail head. But no cattle earn the brand before that hide comes off, she said, and each one is evaluated by that USDA grader for all ten carcass specifications.

Of all the Angus-identified cattle, only about 35% make the cut. The four biggest disqualifiers are not enough marbling, out-of-range ribeye size or carcass weight, and back fat thickness of more than an inch.

Of those four, 92% fail for lack of marbling. If that term seems like a consistent talking point, Lee said that's why.

"It's not because we believe in single-trait selection. We know that you have a lot of different

traits that are very important to both a registered or commercial cow herd," she said. "The reason we talk about marbling so much is because it's the number one place where there's money left on the table because a producer missed out on their Certified Angus Beef premiums from not having enough."

The good news is, about 40% of what influences marbling is based on genetics, Lee said.

Beyond that, what happens on the ranch and at the feedlot greatly influences how consumers respond to it.

"What all of this ultimately boils down to is, quality pays," Lee said. "There is a message that has been clearly sent from consumers to producers today, that high-quality beef is worth more to them and they're willing to pay more for it."

Premium genetics and management need premium marketing. That's why the brand will host a second webinar on January 21 tackling grid marketing, retained ownership and how to use information to make better decisions. To learn more and register for that virtual program, visit [cabcattle.com/webinars](http://cabcattle.com/webinars).

## FDA releases antimicrobial use summary report

Domestic sales and distribution of medically important antimicrobial drugs approved for use in food-producing animals increased by 3% between 2018 and 2019. However, the trend of antimicrobial sales for food-producing animals over time shows sales and distribution of 25% less since 2010 and 36% less than 2015, the peak year of antimicrobial drug sales data.

The data comes from FDA's 2019 Summary Report on Antimicrobials Sold or Distributed for Use in Food-Producing Animals. Section 105 of the Animal Drug User Fee Amendments of 2008 (ADUFA 105) requires that animal drug companies annually report to FDA the amount of antimicrobial drugs that they sell or distribute for use in food-producing animals. ADUFA 105 also requires FDA to issue annual summary reports of the sales and distribution data.

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# Researchers develop corn that can weather warming planet

Climate change will affect many agricultural crops, and field corn is likely no exception.

Field corn, the starchy cousin of sweet corn, is a globally important cereal grain used in livestock feed and other products. And it has an Achilles heel: unseasonably warm nights.

"As night-time temperatures rise, corn yields decline. These high temperatures affect an enzyme in maize responsible for storing starch. At higher night time temperatures, that enzyme, called PGD3, stops working, and the corn kernels will not produce as much starch, or will not properly develop," said Camila Ribeiro, a graduate of the UF/IFAS College of Agricultural and Life Sciences (CALs) and former postdoctoral researcher at the UF/IFAS Citrus Research and Edu-

cation Center. "Over the next several decades, as we see climate change lead to higher night time temperatures, this could mean farmers won't be able to produce enough corn to stay in business," said Mark Settles, professor in the UF/IFAS horticultural sciences department. "That's a food supply issue and an economic problem."

But Ribeiro and Settles may have a solution. In a new study, they show that a new variety of field corn is productive even when nights are warm. This variety was developed via a novel genetic engineering technique that inserts a copy of a corn gene to make a protein in a new location in the plant's cells. This finding could help inform traditional breeding efforts down the line.

To test how well their new corn variety fared in

the heat, the researchers planted it during March and April at the UF/IFAS Plant Science Research and Education Unit located about 30 minutes south of the main UF campus in Gainesville. Compared to the March plantings, the corn planted in April experienced warmer nights temperatures during kernel development.

The results were striking: the new variety produced 40% more yield under higher temperatures.

"In the field, we had plots planted with engineered and non-engineered plants. They were growing under the same conditions, same temperatures. As we harvested the field, we could see just how much bigger the corn ears were in the new variety under heat stresses. It was very exciting to see," said Ribeiro, who complet-

ed this research as part of her a doctoral studies in plant molecular and cellular biology at UF/IFAS CALS.

"It was exciting because, for people like us who want to figure out how to grow food with climate change, this is a promising result," said Settles, who was Ribeiro's dissertation adviser. Ribeiro now works at the Brazilian Agricultural Research Corporation (EMBRAPA) Maize and Sorghum in Brazil.

This new corn variety is more productive because the heat sensitive PGD3 enzyme that allows the plant to store starch is getting extra help.

"PGD3 isn't the only enzyme in the cell that catalyzes its specific reaction. You also have PGD1 and PGD2. Unlike PGD3, 1 and 2 aren't sensitive to heat, but they don't operate in

the part of the cell where PGD3 operates, the amyloplast, which is the part of the plant cell that produces starch," Settles said. "We wanted to find a way to move 1 and 2 into the amyloplast. Once there, we predicted they would be able to help kernels grow at higher temperatures."

To reroute these enzymes, Ribeiro and Settles reconfigured their corn plants' genetic code by inserting a part of the gene called Waxy1 in front of Pgd1 and Pgd2 genes. This extra code in the DNA would direct those enzymes to the amyloplasts.

"Our study confirmed that when PGD1 and PGD2 proteins are relocated to the amyloplasts, it results in the characteristic we are looking for, heat resistance," Settles said.

The engineered genes open up the possibility of making new heat resistant

varieties using traditional breeding techniques, the researchers say. Breeders could screen corn plants for heat-resistant forms of PGD3 to try to get the same effect.

"Our study is an example of how genetic engineering techniques can speed up traditional plant breeding processes by giving breeders insight into how genes confer desired traits. Climate change is happening fast, and we need to develop plants that will adapt to this new environment as soon as possible," Settles said.

While such a corn variety may not be commercially available for several years, Ribeiro and Settles are hopeful that their plants will one day help feed a changing world.

The study is published in the journal *PNAS*.

# Red Angus Foundation sponsors Beef-on-Dairy Project

By Tom Brink, CEO, Red Angus Association of America

There's a genetic revolution taking place in the dairy industry. Increased use of sexed semen on top-producing dairy cows is creating ample numbers of replacement heifers without the need to breed mediocre or lower end cows to dairy bulls. As a result, many dairies are now utilizing beef semen to produce growthier, more marketable calves that are 50% beef and 50% dairy. A typical scenario is to use female-sexed semen on one-third to half of the best cows, and beef semen on everything else. This approach virtually eliminates all low-value dairy steers.

With over 9.3 million dairy cows in the U.S., coupled with active use of artificial insemination, "beef on dairy" has become big business. A rough estimate would be that 7 to 8 million straws of beef semen are now being used by the dairy industry annually, with additional growth expected in the years ahead.

Even though this semen sells for less per unit than

conventional beef semen, it has become a market too big to ignore. That's why the Red Angus Foundation, Inc. is sponsoring a research project in central California to demonstrate that Red Angus genetics can be used successfully to produce fast-growing beef-dairy-cross calves that will excel in the feedlot and hang up valuable carcasses at harvest.

### About the Project

Red Angus has not been extensively utilized in beef-on-dairy applications, though we are aware of some commercial use in the Texas Panhandle and New Mexico region involving both Holstein and Jersey cows. The Visalia California project, funded in part by RAFI, was initiated in the fall of 2019. More than 50 head of Red Angus-sired calves were born to Holstein dams in July and August this year and wear the yellow FCCP tag.

Calves will be grown to around 350 pounds on-site at the calf-growing facility on the dairy of origin before being moved to a small feedlot, also located in

central-California. Eventually, both steers and heifers will be fed out to 1,300 to 1,400 pounds and harvested. Planned data collection includes actual live gains and feed conversion rates on a group basis, along with individual DNA and carcass results.

Many of the project calves are mostly or entirely black-hided since black is dominant to red. However, a few red calves were produced, due to some of the cows being red-carrier Holsteins. White on the head, feet, flank and belly also showed up on some calves which is normal for beef-dairy-cross animals given their black-and-white-spotted dams. Some believe Red Angus does a better job than other breeds in getting rid of the white and producing more solid-colored calves.

More information will be provided on this project as the calves grow and progress during the months ahead. Thanks to RAFI for helping get this important research off the ground and we look forward to its results!

# U.S. protein export markets continue to see change

By Derrell Peel, Oklahoma State University

U.S. global meat protein exports have continued to evolve in 2020. Some of the changes this year reflect ongoing trends in global meat markets but the COVID-19 pandemic has also affected protein trade.

Beef exports for the year-to-date through October are down 5.3 percent year over year after dropping sharply in May and June and then recovering from July to October. Total pork exports in 2020 are up 19.9 percent, driven by exceptionally strong exports to China, along with

Taiwan and Hong Kong. Broilers exports so far in 2020 are up 4.2 percent year over year, with exports to Mexico, the largest market nearly unchanged from one year ago, but up sharply to China.

Mexico is arguably the market most impacted by COVID-19 from a U.S.,

and specifically a beef, perspective. Exports of beef to Mexico are down 37.9 percent year over year, with declines from last year every month in 2020. Mexico is suffering a devastating recession, the result of current federal policies aggravated by the pandemic.

The biggest changes across all meat markets relate to China. China has dramatically increased protein imports in 2020 after suffering from the devastating loss of pork production due to African Swine Fever (ASF) in 2018-2019. So far this year, China has accounted for nearly 30 percent of U.S. pork exports. This follows a 16 percent share of U.S. pork exports to China in 2019. Pork exports to China represented less than seven percent of total pork exports from 2014-2018 but previously peaked at nearly 13 percent of annual exports in 2011.

China is the number two market for broiler exports in 2020. Broiler exports to China have been very low in recent years, though China did account for ten to eleven percent of U.S. broiler exports from 2006-2009.

China has been a rapidly growing market for global beef imports in recent years and is the largest beef importing country since 2018. This reflects underlying growth in beef demand in China, accentuated by the protein short-

ages due to ASF. China has been a minor market for U.S. beef but is growing rapidly. The China share of U.S. beef exports exceeded one percent for the first time in 2019 and is the number seven beef export market at 2.9 percent of total beef exports thus far in 2020. Beef consumption in China is expected to continue growing and, assuming no additional political disruptions, China could be one of the top exports markets for U.S. beef in the next couple of years.

Broiler meat exports are heavily dominated by Mexico, with China increasing from zero exports in the first ten months of 2019 to the number two market in 2020, to supplement ASF related protein shortages. Broiler meat is exported to a vast array of smaller markets. It is interesting for example, that broiler exports to Cuba in 2020 have exceeded exports to Vietnam and Canada. The top twelve broiler export markets only account for about 68 percent of broiler exports (compared to 94+ percent of beef and pork exports).

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Key 16 Calf Creep Pellet is recommended 30 to 60 days before weaning. The extra weight gain will produce \$15 to \$30 return per calf over creep feed costs.

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**NO SALE WAS HELD DECEMBER 23rd**

**CONSIGNMENTS FOR DECEMBER 30:**

65 blk x.....strs.....	775-825 lbs
Selling at 12:30.....	10 hd mixed feeder pigs..... 50-70 lbs.
9 AngusX.....bred cows.....	2-5 yrs old
30 Red Angus.....strs.....	400-575 lbs.
60 blk X.....strs.....	825-875 lbs.

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**CLAY CENTER LIVESTOCK SALES INC.**  
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**NO SALE WAS HELD DECEMBER 22nd**

**Back to regular schedule Tuesday, December 29th**

**CONSIGNMENTS FOR DECEMBER 29:**

12 mix.....pairs.....	running age
-----------------------	-------------

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**NO SALE WAS HELD DEC. 23rd**

**EARLY CONSIGNMENTS FOR DEC. 30**

- 16 blk & red strs, 725-775 lbs.
- 64 mostly blk strs, 775-825 lbs.
- 64 mostly blk strs, 850-900 lbs.
- (170) 2 loads blks & 1 load mix strs, 875-950 lbs.
- 230 blk strs, 875-950 lbs.

**PLUS MORE BY SALE TIME**

**EARLY CONSIGNMENTS FOR JAN. 6**

- 45 Red Angus strs, 700-900 lbs.
- 160 mix hfrs, 775-850 lbs.
- 163 Red Angus strs, 775-875 lbs.
- 280 mix strs 800-900 lbs.

**PLUS MORE BY SALE TIME**

**EARLY CONSIGNMENTS FOR JAN. 13**

- 300 mix strs, 800-900 lbs.

**PLUS MORE BY SALE TIME**

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# January 31 is deadline for CAB Colvin Scholarship

By Morgan Marley Boecker

Sometimes all a person needs is a little boost, a reassuring message: "You've got this."

Since 1999, the Certified Angus Beef® (CAB®) brand has provided that by awarding \$289,500 to 86 Colvin Scholarship recipients. In 2020, ten students earned their shares of \$42,000, but each year that number seems to grow.

The fund honors Louis M. "Mick" Colvin, CAB co-founder and executive

director for its first 22 years, for his vision and tireless efforts to help the brand become reality. It was established after his retirement to carry on the legacy of achieving dreams and inspiring others.

Applications are open until January 31, 2021 for students pursuing a degree in meat science, animal science, economics, marketing, business, communications or other beef-related fields.

To apply, visit the brand's careers webpage

and click on 2021 Colvin Scholarship links under "Open Positions, Scholarships and Seminar Opportunities."

At least five sophomore, juniors or seniors will be awarded a scholarship next spring. Applicants must submit transcripts along with two letters of recommendation and two essays. An essay of up to 1,000 words should detail how CAB can ensure its reputation in the competitive market for branded Angus beef, with a second essay of up

to 500 words explaining their career path.

Graduate-level scholarships are available to those pursuing research on the advancement of high-quality beef production and increasing beef demand. Graduate applicants should also submit a report outlining the details of their research.

First-place undergraduate and graduate winners will receive \$7,500 and an all-expense-paid trip to the 2021 CAB Annual Conference in Marco Island, Fla., where

they can connect with the brand's partners in production, packing, retail and foodservice. A golf tournament and auction at the event provide funding for the scholarships, with totals regularly setting new records.

Selected by the Colvin Scholarship Fund Committee, applicants are judged on their activities, scholastic achievement, communication skills and reference materials. Applicants will be selected to win their share of \$50,000, and winners will be notified in March.

For 42 years, the brand has remained dedicated to adding value to Angus cattle by providing a consistently high-quality eating experience. Based in Wooster, Ohio, CAB annually sells more than a billion pounds of the best beef worldwide through a network of 19,000 licensed partners.

To learn more visit <https://www.certifiedangusbeef.com/press/colvin/>.

## Livestock producers have more risk management possibilities

By Mary Lou Peter

The use of crop insurance by farmers is pretty common across the United States. Livestock insurance, not so much.

A Kansas State University agricultural economist believes, however, that recent improvements in risk management products for livestock producers by the USDA's Risk Management Agency may make them worth a second look.

"We like to say the federal crop insurance program is the foundation for the federal farm safety net in the U.S., but there are a lot of products in the federal crop insurance program that can be used by livestock producers," said Jenny Ifft, associate professor and agricultural policy specialist with K-State Research and Extension.

Livestock insurance programs have not been embraced like crop insurance has for several reasons, said Ifft, noting that in many cases 90% of eligible crops are covered by crop insurance, but the use of livestock insurance is much less common.

Livestock insurance products haven't been as developed as long and historically, participation has been capped or limited by either the number of head or amount of dollars, and the cost sharing with the federal government has been lower, she said.

"The way I like to look at insurance is that farmers are always making decisions about the future and you try to make the best decisions you can with the best information you have," Ifft said.

"Information on costs,

prices, weather and what kind of production you expect - all of those things are uncertain and can be different in the future from what you expect today. The point of insurance is to get you closer to what you expect for cost, prices and production, so that you can make better decisions today."

She outlined three primary livestock insurance choices.

1) Whole Farm Revenue Protection has been in existence since 2015. It's not widely used in Kansas with only six farms covered in 2020 under such a policy. Public awareness and knowledge about this type of coverage is still limited. This type of coverage was mostly developed for the purpose of providing an insurance option for diversified farming opera-

tions. It covers everything that's produced on the farm and can include up to \$2 million of livestock revenue.

For those who have three to six major crops and livestock, five years of tax records and basic production records, WFRP may be worth considering, Ifft said. The tax records are used to set the guarantee.

2) Livestock Risk Protection is based on livestock futures prices and protects against drops in futures market prices. This product can be used to cover feeder cattle and cattle on feed in feedyards. Recent changes in this type of insurance may make it more attractive to producers than it has in the past, in that cost sharing from the federal government is now higher. Previously cost sharing

was 25%-35% of premium cost but that's now been expanded to 35%-55% of premium cost. Additionally, the number of head possible to cover has been increased from 6,000 previously to 12,000 currently per year. Producers can enroll in this coverage any time during the year.

3) Forage Production Risk is a product that has been catching on in Kansas and other states, Ifft said, particularly the Pasture, Rangeland and Forage choice. Almost 2 million acres of pasture are enrolled in this type of coverage in the state this year. That sounds like a lot, she added, unless you consider that more than 5 million acres each in corn and wheat are enrolled in crop insurance programs.

"It's grown a lot but it's still relatively new and relatively small," Ifft

said of this type of risk management. "This program effectively protects against drought risk. It's based on rainfall in a producer's area. In this case, there just needs to be less rainfall during a coverage period in a producer's area than there has been historically."

In addition to the programs administered by the Risk Management Agency, Ifft said the USDA's Farm Service Agency also has programs that can help producers, particularly with weather or disaster events.

"In determining your options, it helps to know breakeven costs. We economists always recommend knowing your costs for a number of reasons and one of those reasons is so you can manage your price risk," she said.

## Plan your windbreak now... order soon... plant later...

By David G. Hallauer, Meadowlark District Extension agent, crops & soils/horticulture

When we think planting, we typically think spring. While spring works for many crops or plants, trees are one planting that needs advance planning. If you've ever considered a windbreak, the time for planning isn't late spring or during the first winter cold snap. It's now.

The wind chill with a temperature of 10 degrees and a 15 mile-per-hour wind is negative 18 degrees. That 10-degree temperature feels 28 degrees colder than it actually is. The same combination of temperature and wind behind an established windbreak: seven degrees. Just three degrees cooler-feeling than the actual air temperature and 25 degrees warmer than being in the wind directly. That difference would make outdoor

work a lot nicer and life outside for pets and livestock a lot easier. It can also help reduce home heating fuel costs by 15 to 25 percent.

Because they are a long-term investment, windbreaks must be designed to ensure the desired benefits to homes, livestock, and fields. Make a sketch of your site and potential locations, giving consideration to the following design principles:

Wind eddies will form around the ends of a windbreak. To avoid, extend windbreaks at least 100 feet beyond the area to be protected.

Gaps will funnel wind and reduce effectiveness. Locate driveways around the ends of windbreaks or situated at an angle perpendicular to prevailing winds to prevent this funneling.

Windbreaks are more attractive following the

land's natural contour. Rows don't have to be straight in one direction, but should be generally perpendicular to the prevailing winds.

Avoid plantings where the windbreak will block a driver's vision at intersections. Don't make plantings closer than 200 feet north or west and 80 feet south or east of the centerline of a road to prevent creating snow drifts across

the road.

Think diversity of species. This will increase insect and disease resistance as well as wildlife habitat. However, you shouldn't mix species within the row unless in a specially designed wildlife habitat planting. Plants of the different species grow at different rates and suppression of slower growing species may be seen.

For additional plant-

ing tips and tricks, check out *Windbreaks for Kansas*, available from any District Office, or online at: <https://bookstore.ksre.ksu.edu/pubs/MF2120.pdf>.

After the design, you'll need trees. Next week we'll talk about the Kansas Forest Service Conservation Tree and Shrub sales program.

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5 blk str	484@164.00	3 blk char hfrs	455@139.50
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3 rwf blk str	636@145.00	7 blk hfrs	633@137.00
3 blk str	620@144.00	4 blk hfrs	557@135.50
2 blk str	552@141.00	6 blk hfrs	618@135.50
3 blk str	585@140.50	2 blk hfrs	540@133.00
3 blk str	755@138.50	2 rwf red hfrs	530@133.00
5 blk str	730@138.00	2 blk hfrs	637@132.50
2 char str	417@136.00	2 blk hfrs	615@131.50
2 blk bwf str	690@135.00	16 blk hfrs	648@130.50
2 blk bwf str	730@134.00	2 blk hfrs	590@130.00
7 blk bwf str	748@133.00	4 blk red hfrs	696@128.25
3 blk str	681@129.00	6 blk hfrs	631@127.00
2 bwf rwf str	815@126.00	2 blk hfrs	600@122.00

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**Sat., Jan. 2<sup>nd</sup> - Horse & Tack Sale**  
**Tues., Jan. 12<sup>th</sup> - Calf/Yearling Special**  
**Sat., Jan. 16<sup>th</sup> - Hog/Sheep/Goat Sale**

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**Merry CHRISTmas & Happy Holidays!**  
 Thank You Everyone that came out to celebrate Mary at her retirement party. We will all miss her tons!  
 ENJOY the Season & see y'all back on January 7th!

**SPECIAL STOCKER/FEEPER SALE: JANUARY 7, 2021**  
 • 2 loads blk heifers, 750-800lbs  
 • 1 load mx heifers, 750-800lbs  
 \*\*\*\*\*

**SPECIAL COW SALE: JANUARY 16, 2021**  
 • 100 mostly blk 4&5 year old cows, bred to McCurry Bulls, start calving Feb 1st for 60 days  
 • 35 Angus first calf heifers, 1000lbs & will start calving Feb 1st for 60 days  
 • 120 running age cows, 3-8years old, will start calving Feb 1st for 60 days  
 \*\*\*\*\*

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

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 • 14 Bwf 1st Calf Bred Hfr, Same Information As Above, Bred Cross Diamond Red Ang  
 • 14 Rwf-Red Ang 1st Calf Bred Hfr, Same Information As Above, Bred Tegtmeier Hereford 01F  
 • 18 Blk-Bwf 1st Calf Bred Hfr, Same information As Above, Bred Nichols Blk Ang  
 • 80 Blk Ang 1st Calf Bred Hfr, A I Bred Acclaim, Ultra Sounded 8/10, 60% Safe To A I, Clean-Up 5/18 W/Sons of In Focus, Calve Feb 19, Vacc Vira-Shield 6+VL5, Poured & Wormed 10/1  
 • 40 Red Ang 1st Calf Bred Hfr, A I Bred ABS Red Ang Big Beef, +18 CE & Grant Prairie, +12 CE, OCV, Pelvic Measured, Scour Guard, BQA & Zoetis Vacc, Calve Feb 20  
 • 40 Red Ang 1st Calf Bred Hfr, Bred Red Ang Redemption & Premier, OCV, pelvic measured, Scour Guard, BQA & Zoetis Vacc, calve April 20  
 • 45 F-1 Bwf 1st Calf Bred Hfr, A I Bred Herbster Ang Game Changer 371 BW 72#, Ultra Sound 7/15, OVC-Pelvic Measured-Dbl Scour Guard-Vacc, Calve Jan 31  
 • 72 Blk 1st Calf Bred Hfr, Bred Beckton Red Ang, Calve Mid Feb  
 • 35 F-1 Bwf (20) - Blk (20) 1st Calf OCV Bred Hfr, Bred Klein Blk Ang, Vacc & Scour Guard, Calve Jan 21  
 • 41 Blk 1st Calf Bred Hfr, Bred Blk T7 Ranch & Gillam, Vacc & Scour Guard 9/4/20 & Scour Guard 12/1, Calve Jan 16  
 • 15 F-1 Rwf 1st Calf Bred Hfr, A I Bred Herbster Ang Game Changer 371 BW 72#, Ultra Sound 7/15, OVC-Pelvic Measured-Dbl Scour Guard-Vacc, Calve Jan 31  
 • 4 Blk-Red 1st Calf Bred Hfr, A I Bred Brown Perseverance Red Ang, Calve March  
 • 50 Blk-Red 1st Calf Bred Hfr, Blk Bred Priefert & Bruning Blk Ang, Red Bred Durst Red Ang, Scour Guard, Pelvic Measure & Poured, Calve Feb 15  
 • 15 Blk-Red Balancer 1st Calf OCV Bred Hfr, Red A I 5L Independence & Black A I The Answer, Dbl Scour Guard, Pelvic Measure, Calve Late Jan

**BRED COWS & COW/CALF FAMILIES:**  
 • 7 Blk-Red Cow/Calf Families, 4-5-6 yr old, 150-200# Blk-Red Calves  
 • 17 Blk-Bwf Bred Cows, 4 - 5 Yr Old, Bred Blk Ang, Scour Guard & Poured, Calve Mar 10  
 • 60 Blk & Solid Red Bred Cows, DISPERSAL, 3 Yr - Solid Mouth, Bred Simm/Ang, Calve Mar 15 (60-Day)  
 • 18 Blk Bred Cows, 3 - 5 Yr, Bred Blk or Red, Mineral & Vacc Program, Calve April 1  
 • 25 Blk Bred Cows, 3-5-6 Yr Old, Bred Red Ang, Vacc, Calve Feb 1  
 • 20 Blk Bred Cows, 6 - 8 Yr Old, Bred Polled Hereford, Vacc & Poured, Calve Feb 15 (60-Days)  
 • 45 Blk Bred Cows, Solid-Short Solid Mouth, Bred Blk Ang, Calve Mar 1 (75-Days)  
 • 9 Blk Bred Cows, 5 - 8 Yr Old, Bred Blk Sim Ang, Calve Mar 1  
 • 43 Blk Bred Cows, Broken Mouth, Mineral & Vacc Program, Bred Blk, Calve Mar 1 - Pickrell

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# USDA announces Dr. Carrie Castille as new NIFA director

The U.S. Department of Agriculture (USDA) announced that President Trump has named Dr. Carrie Castille as the new, permanent director of the National Institute of Food and Agriculture. Dr. Castille will start her new role on Monday, January 4, 2021.

“Dr. Castille is a trusted leader in economic development and public policy and has more than 20 years’ experience in the agricultural sector. Her passion for agricultural research, teaching, and Extension will enable NIFA to continue its transformation as a premier science agency,” said U.S. Secretary of Agriculture Sonny Perdue. “She will bring strong leadership to NIFA as they continue to build and strengthen partnerships with our public land-grant universities and agricultural institutions across the nation.”

Castille served as Assistant Professor and Agricultural and Natural Resource Leader at Louisiana State University prior to serving as Associate Commissioner and Senior Advisor to the Commissioner for the Louisiana Department of Agriculture and Forestry. In 2017, she joined USDA as state director for Louisiana Rural Development, and in 2019 was named as the mid-south (Louisiana, Mississippi, Arkansas, Tennessee, Missouri) coordinator for USDA’s Farm Production and Conservation (FPAC) mission area.

Castille was appointed by USDA Secretary Vilsack to the National Agriculture Research, Extension, Education, and Economics advisory board from 2010-2017. During this period, she served as Chair of the NAREEE board, and also contributed to many organizations, including the American Public and Land Grant University Council on Agriculture Research, Extension, and Teaching.

During her tenure at USDA, Dr. Castille received the Secretary’s Award of Excellence (2003) and the Secretary’s Award for Excellence in Rural Development (2018). In 2017, she was the first female inducted into the University of Louisiana Lafayette College of Engineering Hall of Distinction. She also will be the first female to serve as NIFA director in a non-acting capacity.

She holds a Ph.D. in Renewable Natural Resources (with emphasis on environmental and public policy) from Louisiana State University, an M.S. degree in Environmental Studies from Louisiana State University, and a B.S. degree in Industrial Engineering from the University of Louisiana at Lafayette.

# Cattle Chat: Managing thin cows in winter

**By Lisa Moser**

In the midst of the holiday season and the increased access to sweets, many people may be observing a less than ideal change in their personal body conditions.

While people may strive for a skinnier physique, holding a thin body condition over the winter may create deficits for cattle heading into calving season, said the experts at Kansas State University’s Beef Cattle Institute on a recent Cattle Chat podcast.

“Thin cows have a higher maintenance requirement in the winter than cows in adequate condition because they have to work harder to stay warm,” said Bob Weaber, beef cattle specialist and

podcast contributor.

To assess the herd, veterinarian Bob Larson suggests ranchers periodically check them and even take pictures of the herd to help monitor changes over time.

“In any group, I expect some variation in the condition, but ideally I want almost all the cows to be in a moderate body condition,” Larson said. “And if they are, then I know that I am managing the group pretty well.”

Larson said if cattle ranchers notice that there are thin cows in the herd, they may need to evaluate the situation further to see if there is a pattern tied to their age or access to feed.

“The number of cows in the herd will creep up if, for example, they are getting pushed out of the feed bunk and not getting the protein supplementation they need,” Larson said.

The experts agree that two feet of bunk space per head is a minimum amount of space needed.

“If you only allocate a foot and a half on a single-sided feed bunk, the big cows will push out the thinner, smaller cows that really need the feed,” Weaber said. He prefers to place the feed bunk in the middle of the pasture so cattle can access the feed from both sides.

Larson added that the amount of bunk space needed will depend on the type of feed provided and how quickly the cattle consume it.

“Big cubes fed on the

ground will allow the cattle to have easy access because you can spread it out, but there is more feed waste and sanitation issues that come with that strategy,” veterinarian Brad White said.

Once producers determine why some of the cows are thin, they may need to make culling decisions or form a plan to add condition back on the cows, according to Weaber.

“Identify the commonalities of the problem animals and that will determine the best management strategies to fix it, as well as knowledge for the future,” Weaber said.

White suggested producers look at ways to segregate the thin cows.

“Grouping the thin cows together can be a

powerful tool in giving them the extra feed they need ahead of calving season,” White said. The challenge, he added, may lie in where they are located and the ease of separating them for feeding.

Larson said it is important to consider where the cow is in the pregnancy when coming up with the supplementation plan.

“Right now, spring calving cows are midway through their pregnancies and the calves are not pulling that much nutrient demand from them, but as they get closer to calving that demand goes up significantly,” Larson said.

He added: “The cow’s maintenance cost is the lowest it is going to be right now and that makes it a good time to put some

weight on her rather than waiting to do it later.”

Weaber advised producers to calculate the days to calving when figuring out the gain needed.

White gave an example: “If I have 100 days, I could target the cows to gain two pounds per day. That will give them about 200 pounds of gain.”

The bottom line, White said, is to “do the math for your herd and then figure out if it is just a couple individuals that need to gain weight or the entire group, because that answer will drastically change the decision you make and what options are available.”

To hear more of the discussion about managing thin cows, listen in to the Cattle Chat podcast online.

# Get forage sample results to determine feed quality

**By Brett Melton, River Valley Extension agent, livestock production**

Getting a feed analysis on forage is important to determine the feed quality. When you get an analysis done, the most basic values you will get are dry matter, neutral detergent fiber (NDF), acid detergent fiber (ADF), crude protein, and total digestible nutrients (TDN). To me, the most important of all these values is the dry matter. It is also the easiest value to get. If you have a scale and an oven, you can calculate the dry matter. Weigh out a small amount of the forage (I refer to this as the “as-is basis”) and put it in the oven at a low temperature (We don’t want to cook it, just dry it out). Make sure you weigh the container first (aluminum tins work great for this). Once the forage is dry, weigh it again and subtract the weight of the container. Take the dry weight divided by the as-is weight. If the as-is weight was 100 grams and the dry weight was 90 grams, then the dry matter is 90% on a dry matter basis (90/100=.90). Cattle will drink less if the ration has higher moisture content and vice versa. Therefore, all rations should be formulated on a dry matter basis.

The next two parts of a feed analysis are the NDF and the ADF. These two cannot be calculated at home like the dry matter. To get these two parts of a forage sample, they get washed with two different solutions. One sample gets washed with a neutral detergent solution and the other with an acid detergent solution. NDF will contain three fiber portions (hemicellulose, cellulose, and lignin) while ADF will contain just two fiber portions (cellulose, and lignin). The order of the most digestible to least digestible goes hemicellulose, cellulose, and lignin. Lignin is virtually indigestible.

NDF and ADF are also indicators of how digestible a forage is. A forage with a high NDF and ADF values are less digestible and provide fewer nutrients to the animal. Two extreme examples of this would be wheat straw compared to first cutting alfalfa that is cut at the early bloom stage. Wheat straw will have about 75% NDF and 50% ADF and the early bloom alfalfa will be about 45% NDF and 35% ADF.

TDN is the sum of the digestible fiber, protein, lipid, and carbohydrates in the for-

age, and typically is calculated using ADF. This can be used in beef cow rations that are high in roughage. If you are formulating a finishing ration, using the net energy system is more appropriate.

My last note to make is on relative feed value (RFV) and relative feed quality (RFQ). These two values are not used to formulate rations. They are a prediction of the feeding value a forage has. RFV should only be used to compare legume hays such as alfalfa. Keeping these things in mind when you are putting a ration together will help keep your animals on track for the gains that you are targeting, or the body condition score you want to obtain.

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# MU Extension Woodland Steward webinar series begins in January

University of Missouri Extension kicks off a new year of Missouri Woodland Steward programs to help natural resource enthusiasts learn more about how to preserve woodlands.

MU Extension state forestry specialist Hank Stelzer and natural resources field specialist Sarah Ha-

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# Sell

Sell Or Buy

# At

By Auction

# St. Marys

STARTING TIME 10:30 AM

# Marys

Tuesdays

**Buyers & sellers are welcome in the ring area with social distancing being practiced. You can watch the live auction at [www.dvauction.com](http://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](http://www.dvauction.com) prior to Tuesday.**

*We wish you a Happy, Healthy, and Prosperous New Year! Thank you for doing business with us.*

**We sold 1530 cattle December 22. Steer and heifer calves were in good demand and sold steady to \$5.00 higher. Feeder steers and heifers were steady to \$2.00 higher. Cows and bulls sold \$2.00-4.00 higher.**

STEER & BULL CALVES		HEIFER CALVES	
6 blk str	362 @ 190.00	61 mix str	969 @ 128.50
17 blk str	462 @ 188.00	60 mix str	982 @ 127.75
6 blk bulls	478 @ 178.00	12 blk str	905 @ 125.00
1 blk bull	415 @ 177.50		
1 bwf bull	265 @ 176.00	HEIFER CALVES	
1 blk str	425 @ 175.00	20 blk hfrs	437 @ 164.50
1 blk str	410 @ 174.00	100 blk/bwf hfrs	503 @ 162.25
1 wf str	385 @ 171.00	3 x-bred hfrs	323 @ 157.00
4 blk bulls	490 @ 166.00	2 blk hfrs	333 @ 155.00
1 wf str	510 @ 164.00	7 blk hfrs	449 @ 147.00
3 blk bulls	478 @ 162.00	22 blk/bwf hfrs	542 @ 147.00
2 blk/red bulls	470 @ 155.00	7 blk/bwf hfrs	507 @ 146.00
		1 blk hfr	405 @ 145.00
		2 blk hfrs	505 @ 143.00
		3 blk/bwf hfrs	520 @ 143.00
		3 blk hfrs	525 @ 142.00
		3 blk hfrs	495 @ 141.00
		2 blk/bwf hfrs	523 @ 140.00
STOCKER & FEEDER STEERS		STOCKER & FEEDER HEIFERS	
19 blk str	578 @ 178.25	4 blk/sim hfrs	565 @ 138.00
10 blk/sim str	554 @ 164.00	73 blk/bwf hfrs	740 @ 135.00
2 blk str	583 @ 159.50	65 blk/red hfrs	815 @ 134.25
59 blk/red str	837 @ 141.25	67 blk/bwf hfrs	773 @ 131.35
2 blk str	590 @ 141.00	4 blk hfrs	669 @ 131.00
6 blk/red str	668 @ 140.00	63 blk/bwf hfrs	662 @ 129.00
23 blk/bwf str	742 @ 140.00	60 mix hfrs	782 @ 128.85
3 blk str	702 @ 138.00	6 blk hfrs	603 @ 127.00
60 blk/bwf str	837 @ 138.00	5 blk hfrs	634 @ 126.00
63 mix str	872 @ 136.85	32 blk/char hfrs	876 @ 125.75
61 mix str	860 @ 136.60		
60 mix str	835 @ 135.00		
3 blk/sim str	717 @ 134.50		
14 blk str	847 @ 134.25		
5 blk/bwf str	696 @ 134.00		
4 blk str	730 @ 134.00		

8 x-bred hfrs	629 @ 125.00	1 wf cow	1130 @ 54.00
26 blk/bwf hfrs	891 @ 124.75	1 char cow	1635 @ 53.00
5 blk/bwf hfrs	1000 @ 107.00	1 bwf cow	1265 @ 52.00
11 blk/bwf hfrs	1071 @ 104.00	1 bwf cow	1250 @ 49.00
COWS & HEIFERETTES			
1 bwf hfrt	1120 @ 80.00	1 blk cow	1090 @ 48.50
4 blk/bwf hfrts	980 @ 79.50	1 blk cow	1275 @ 47.50
1 bwf cow	1095 @ 74.00	2 blk/bwf cows	1060 @ 47.00
1 blk cow	1485 @ 72.50	1 bwf cow	1225 @ 46.00
6 mix hfrts	967 @ 72.00	5 blk cows	1133 @ 45.00
2 blk cows	1878 @ 70.00	2 blk cows	1070 @ 44.00
3 blk cows	1710 @ 69.50	4 blk/char cows	1066 @ 43.50
1 bwf cow	1455 @ 69.00		
BRED COWS & HEIFERS			
1 char cow	1555 @ 68.00	9 blk cows	@ 1400.00
1 bwf cow	1600 @ 67.50	3 blk cows	@ 1250.00
1 blk cow	1520 @ 67.00	5 blk cows	@ 1000.00
4 mix cows	1545 @ 66.50	3 blk cows	@ 985.00
1 gelb cow	1280 @ 65.00	1 blk hfr	@ 975.00
1 red cow	1470 @ 64.50	1 blk cow	@ 950.00
6 mix cows	1125 @ 64.50	1 char cow	@ 925.00
1 blk cow	1540 @ 63.50	3 blk/sim cows	@ 910.00
3 blk cows	1352 @ 62.00	2 blk hfrs	@ 735.00
6 blk/bwf cows	1321 @ 61.00		
BULLS			
1 blk cow	1435 @ 60.50	1 blk bull	1770 @ 83.00
1 blk cow	1180 @ 60.00	1 blk bull	1870 @ 81.50
1 blk cow	1445 @ 59.00	1 blk bull	1820 @ 81.50
1 blk cow	1340 @ 58.50	1 blk bull	1740 @ 77.00
1 blk cow	1200 @ 57.00	1 blk bull	1150 @ 74.50
1 red cow	1205 @ 56.50	1 blk bull	1510 @ 74.00
1 blk cow	1370 @ 56.00	1 red bull	1190 @ 72.00
1 char cow	1105 @ 55.00	1 lnghrn bull	1105 @ 57.50
1 blk cow	1450 @ 54.50		

**CONSIGNMENTS FOR DECEMBER 29:**

- 25 blk str & hfrs 450-500 lbs., vaccinated.
- 30 blk str & hfrs 500-600 lbs., vaccinated.
- 65 blk hfrs 775-800 lbs.
- 65 blk hfrs 800-825 lbs.
- 62 blk char str 850-875 lbs.
- 60 blk str 900-925 lbs.
- 61 blk x-bred str 925-950 lbs.
- 65 blk str 800-825 lbs.

**SPECIAL STOCK COW SALE, THURSDAY, JANUARY 7 \* Starts 12:30:**

- HERD DISPERSAL - 204 blk cows bred to Angus bulls, start calving Feb. 1, the following ages: 25 heifers bred to low birth weight bulls
- 24 - 2nd calf heifers
- 21 - 4 yr olds
- 31 - 5 yr olds
- 20 - 6 yr olds
- 31 - 8 yr olds
- 18 - 9 yr olds
- 34 - 10 yrs +
- HERD DISPERSAL - 45 blk cows bred to Angus bull, start calving Feb. 15, the following ages: 19 hfrs bred to low birth weight Angus bulls
- 10 - 2nd calf heifers
- 16 - 4 to 6 yrs old

**CALL TO CONSIGN BRED COWS OR PAIRS TO THIS SALE!**

**WATCH OUR AUCTIONS LIVE ON DVAuctions.com**

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

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**AUCTIONEERS: DENNIS REZAC & REX ARB**

Livestock Commission Company, Inc.

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**St. Marys, Ks.**