

Heat stress blamed for thousands of cattle deaths in Kansas

By Roxana Hegeman, Associated Press

Thousands of cattle in feedlots in southwestern Kansas have died of heat stress due to soaring temperatures, high humidity and little wind in recent days, industry officials said.

The final toll remains unclear, but as of last Thursday at least 2,000 heat-related deaths had been reported to the Kansas Department of Health and Environment, the state agency that assists in disposing of carcasses. Agency spokesman Matt Lara said he expects that number to rise as more feedlots report losses from the recent heat wave.

The cattle deaths have sparked unsubstantiated reports on social media and elsewhere that something besides the weather is at play, but Kansas agriculture officials said there's no indication of

any other cause.

"This was a true weather event — it was isolated to a specific region in southwestern Kansas," said A.J. Tarpoff, a cattle veterinarian with Kansas State University. "Yes, temperatures rose, but the more important reason why it was injurious was that we had a huge spike in humidity... and at the same time wind speeds actually dropped substantially, which is rare for western Kansas."

That week, temperatures were in the 70s and 80s, but on Saturday they spiked higher than 100 degrees, said Scarlett Hagins, spokeswoman for the Kansas Livestock Association.

"And it was that sudden change that didn't allow the cattle to acclimate that caused the heat stress issues in them," she said.

The deaths represent a huge economic loss be-

cause the animals, which typically weigh around 1,500 pounds, are worth around \$2,000 per head, Hagins said. Federal disaster programs will help some producers who incurred a loss, she added.

And the worst may be over. Night-time temperatures have been cooler and — as long as there is a breeze — the animals are able to recover, Tarpoff said.

Hagins said heat-related deaths in the industry are rare because ranchers take precautions such as providing extra drinking water, altering feeding

schedules so animals are not digesting during the heat of the day, and using sprinkler systems to cool them down.

"Heat stress is always a concern this time of year for cattle and so they have mitigation protocols put in place to be prepared for this kind of thing," she said.

Many cattle had still not shed their winter coats when the heat wave struck.

"This is a one in ten-year, 20-year type event. This is not a normal event," said Brandon Depenbusch, operator of

the Innovative Livestock Services feedlot in Great Bend. "It is extremely abnormal, but it does happen."

While his feedlot had "zero problems," he noted that his part of the state did not have the same combination of high temperatures, high humidity, low winds and no cloud cover that hit southwestern Kansas.

Elsewhere, cattle ranchers haven't been so hard-hit.

The Nebraska Department of Agriculture and the Nebraska Cattlemen said they have received no

reports of higher-than-normal cattle deaths in the state, despite a heat index of well over 100 degrees last week.

Oklahoma City National Stockyards president Kelli Payne said no cattle deaths have been reported since temperatures topped 90 degrees last Saturday, after rising from the mid 70s starting June 1.

"We have water and sprinklers here to help mitigate heat and the heat wave," Payne said, but "We don't have any control over that pesky Mother Nature."

Governor announces resources, actions to assist cattle producers impacted by heat wave

Gov. Laura Kelly has announced actions her administration has taken and resources that are available to support cattle feeders in southwestern Kansas whose cattle died over the June 11 weekend due to heat stress. A combination of temperatures spiking in a short amount of time, high humidity, and little-to-no wind caused cattle losses last weekend — a rare event in an area that is usually ideal for cattle feeding.

"I have directed state agencies to do everything in their power to help Kansas cattle feeders who lost cattle due to heat stress," said Kelly. "From expediting burial permits to reaching out to cattle producers across the state, my administration is working to ease the impact of last weekend's losses on the Kansas agricultural community."

"We're working as quickly as possible to assist facilities in safely disposing of the carcasses and to respond to the needs of impacted ranchers," said Janet Stanek, Secretary of the Kansas Department of Health and the Environment. "In the last week, our staff has processed burial permits and worked with landfills to ensure that carcasses are disposed of properly."

Kansas Secretary of Agriculture Mike Beam assured that the losses will not create a beef supply glitch.

"Last weekend's losses reflect a very small percentage of the total fed cattle numbers in the state, so it will not impact meat prices for consumers," said Secretary of Agriculture Mike Beam. "Regardless, this rare event will hit the feeders who owned the cattle quite hard. We have reached out to contacts in Southwest Kansas to offer our assistance and support."

There are federal resources available to provide financial relief. Impacted cattle feeders are eligible for United States Department of Agriculture indemnity payments, which are made to compensate for the loss or destruction of certain animals and crops. Fatality insurance may also cover some of the losses.

Heat-related deaths in feedyards are rare because producers take precautions such as providing extra drinking water, altering feeding schedules so cattle are not digesting in the heat of the day, and avoiding moving cattle during the heat of the day.

"This was an unusual and unfortunate event. Cattle feeders continually work to mitigate all weather events, whether it's excessive heat, snow, or wind, and it is always their goal to make sure their cattle are healthy so they can provide a good product for their families and for consumers," said Matt Teagarden, chief executive officer of the Kansas Livestock Association. "We appreciate the quick response from the Kansas Department of Health and Environment to address this situation."



Lafllins Jilt 105 won grand champion grand champion phenotype and genotype female at the 2022 Kansas Junior Angus Association Preview Show, June 5 in Hutchinson. Tate Lafllin, Olsburg, owns the October 2021 daughter of Lafllins Black Powder 8532. She also claimed bred-and-owned reserve fall calf champion. Chad Oates, Rising Star, Texas, evaluated the 117 entries.

Photo by Jeff Mafi, American Angus Association



CEC Blackcap 0202 won reserve grand champion grand champion phenotype and genotype female at the 2022 Kansas Junior Angus Association Preview Show, June 5 in Hutchinson. Creed Caldwell, Parker, owns the September 2020 daughter of Deer Valley Wall Street. Chad Oates, Rising Star, Texas, evaluated the 117 entries.

Photo by Jeff Mafi, American Angus Association

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<p>A good attendance of buyers bid very aggressively for our sale held on Friday, June 17th. Light steers and heifers were selling fully steady to higher. Stocker feeder weight steers were selling \$5 to spots \$10 higher. Feeder heifers were in lighter supply and were selling steady to higher prices. Good supply of weigh cows and bulls were selling \$10 to spots \$15 higher on the high yielding kind.</p> <p>STEER CALVES — 450-550 LBS.</p> <table border="0"> <tr><td>Westmoreland</td><td>4 blk</td><td>487@218.00</td></tr> <tr><td>Onaga</td><td>8 blk</td><td>543@214.50</td></tr> <tr><td>Harveyville</td><td>6 Cross</td><td>464@203.00</td></tr> <tr><td>Vassar</td><td>4 blk</td><td>505@196.00</td></tr> </table> <p>STEERS — 550-800 LBS.</p> <table border="0"> <tr><td>Manhattan</td><td>4 blk</td><td>582@203.00</td></tr> <tr><td>Soldier</td><td>6 Rd Ang</td><td>561@202.00</td></tr> <tr><td>Onaga</td><td>20 blk</td><td>629@191.50</td></tr> <tr><td>Soldier</td><td>11 Rd Ang</td><td>636@189.50</td></tr> <tr><td>Osage City</td><td>23 Cross</td><td>648@187.60</td></tr> <tr><td>Ottawa</td><td>6 blk</td><td>606@187.00</td></tr> <tr><td>Pomona</td><td>11 blk</td><td>600@186.00</td></tr> <tr><td>Centralia</td><td>4 blk</td><td>653@182.00</td></tr> <tr><td>Osage City</td><td>19 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EARLY CONSIGNMENTS FOR JUNE 24
SELLING AROUND 11:00 A.M.

- 6 Blk & Red Simm Cross cows (4-7 yrs) with 10-30 days old Blk & Red Simm calves by side.
- 3 (2) Blk & (1) Red Simm 1st calf hrs w/ 30 day old calves by side, calves all worked.
- 25 Blk str, 1 rd shots, weaned 30+ days, 500-800 lbs.

Photography Submission Contest

Your herd could be showcased in our upcoming 2023 large wall calendar. We are looking for high quality maximum resolution color images suitable for our large calendar. Submitted images will be judged by our impartial panel of judges. Please send your images as an attachment to manhattancommission@gmail.com. If selected, you will be entitled to pure well earned bragging rights.

SUMMER SALE SCHEDULE

JUNE 24, 2022 - REGULAR SALE

JULY 1, 2022 - NO SALE (HAVE A SAFE 4TH OF JULY)

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KLA hosts WOTUS regional roundtable

KLA hosted a regional roundtable for the Environmental Protection Agency (EPA) and the Department of the Army June 6 to discuss experiences with the implementation and definition of waters of the U.S. (WOTUS). Individual producers were brought together with representatives from various environmental organizations and conservation groups by KLA to provide their unique perspectives on this important issue.

While participants shared many individual views, there was some consensus. One common theme throughout the roundtable discussion was that regional stakeholders hoped to see voluntary incentives to improve water quality issues. KLA president-elect Shawn Tiffany, a cattle feeder from Herington, said during his comments, "Changes in practices, whether it's adoption of new management strategies, are much better incentivized by education rather than regulation." KLA staff encouraged the government agencies to consider these methods in lieu of adding more regulatory burdens to Kansans and made clear the need for an appropriate balance to be struck between federal and state authority in the development of any new rule.

Live show champions named at Beef Empire Days June 7

A 1,536-lb. black-hided entry fed at Lane County Feeders of Dighton by Foote Cattle Co. from Bucyrus was chosen as champion steer of the Beef Empire Days Live Show, June 7 in Garden City. The reserve live steer was a 1,606-lb. black entry fed and owned by Reeve Cattle Company of Garden City.

The champion live heifer was a 1,404-lb. Angus cross fed at Irsik and Doll Feed Yard of Garden City by Heritage Cattle of Garden City. Brookover Feedyard of Garden City fed the reserve champion live heifer, a 1,344-lb. Charolais cross, for Brookover Land Enterprises of Garden City.

American Hereford Association Chief Operating Officer and Director of Breed Improvement Shane Bedwell judged the live show. A total of 99 steers and 53 heifers competed in the show, which was sponsored by Merck Animal Health.

ONLINE AUCTION

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380+ LOTS: COINS & JEWELRY (Dollars-Morgan, Peace, Silver Eagles; Halves-Walking Liberty, Franklin, Kennedy; Quarters-Pre 1964 Washington; Dimes, Nickels, Pennies; Silver Certificates; Indian Handmade Sterling Set; Sterling Damask Rose Spoon/Fork; Sterling Bowl); **FISHING & OUTDOOR** (Abu Garcia and Misc Reels; Berkley Fillet Knife; Camping Gear; Coleman Lantern); **GARDEN & TOOLS** (Push Mower; Rear Tire Tiller; Hitachi 2" Brad Nailer; Hitachi Portable Table Saw; Little Giant Step Ladder; Rigid 5-Gal Air Compressor; 4 Tier Greenhouse; Tumbling Composter); **HOUSEHOLD & FURNITURE** (Oak Sideboard Buffet; Wicker Couch; Rocking Chair; Gold Orbs Floor Lamp; Kenmore Mini Fridge; Twin Sealy Mattress; Starburst Ceiling Light; Shark Professional Vacuum; Royal Prestige; Adirondack Chairs); **ANTIQUES** (E.H. Stafford Mfg Co Oak Rolltop Desk Organizer; ABCO Lighted Smoking Stand; Fostoria Coin Glass; Artwork by Margaret Whittemore; Arrow Heads; Mantle Clock; Crock Jugs; Oak Wall Crank Phone); **MUCH MORE. Partial Listing!**

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Effects of higher crop, input prices

By Paul Schattenberg,
Texas A&M AgriLife
Extension

Whether you grow crops in addition to raising cattle or not, the prices of crops and their inputs directly affect your operation. So what does that look like this year?

A report by the Agricultural and Food Policy Center (AFPC) at Texas A&M University titled "Economic Impact of Higher Crop and Input Prices on AFPC's Representative Crop Farms" provides insights into the economic effects of higher crop and major input prices on the center's 64 representative crop farms.

About the report

"This report is a follow-up to an AFPC briefing paper that analyzed the impact of higher fertilizer prices on the AFPC's representative farms done at the request of U.S. Rep. Julia Letlow," explained Bart Fischer, co-director of the AFPC in the Department of Agricultural Economics of the College of Agriculture and Life Sciences at Texas A&M, Bryan-College Station. "The current report analyzes the economic impacts of higher crop and major input prices on 64 representative crop farms throughout the U.S."

The analysis was requested by Sen. John Boozman, a ranking member of the Senate Committee on Agriculture, Nutrition and Forestry.

"Input suppliers around the world are having a tough time meeting demand for most of the major crop inputs," Joe Outlaw, AFPC co-director, says. "While there are many causes, the most cited revolve around the pandemic and the resulting supply chain and distribution problems that have persisted."

He says in addition to supply chain and distribution issues, inputs such as fertilizer have also been hit with import duties by the U.S. International Trade Commission on phosphorus and urea ammonium nitrate solutions.

"These factors, along with the Russian invasion of Ukraine, with both countries being major fertilizer exporters, have

further limited fertilizer availability and led to even higher prices," Outlaw says. "The Russian invasion has also greatly reduced corn and wheat exports from Ukraine, which has led to higher crop prices around the world."

While producers are unquestionably facing higher prices for inputs, Fischer says, it was less clear how those high input prices were translating into increases in the cost of production.

"For example, some producers locked in input prices last year before the significant run-up in prices, and we expect that most producers will reduce input use in response to higher prices," he says.

Feedback from producers

Matt Huie, a farmer and rancher from Beeville, Texas, says rising input costs have significantly affected operational expenses. In his farming operation, Huie plants about 50% cotton, 25% corn and 25% sorghum.

"The increase in fertilizer has been the most notable of input costs," he says. "There have been several increases over the past year, and currently we're paying more than double for it than at the same time last year."

He says the cost of chemical inputs such as herbicides and insecticides has also risen and taken a chunk of his operational capital.

"Some of these products are four times as expensive as last year and, due to supply-chain issues, we've also had trouble just finding them," Huie says.

As a result of higher input costs and drought, he says, his crop yields for both cotton and corn are expected to be down more than 50% from last year.

Although commodity prices have been higher, they have still not been high enough to compensate for all the increased input costs, Huie says.

"There are likely to be commodity price decreases in the not-too-distant future, but it's probable that any reductions in input costs will be more gradual and will not be enough to offset those price reduc-

tions," he says.

He estimates his operational costs will be close to \$1 million more than last year due to input increases ranging from fertilizer to chemicals, fuel and other necessary supplies.

L.G. Raun, a third-generation rice farmer in El Campo, Texas, says he has read the AFPC report and concurs with the conclusions, particularly those regarding the effect of increased inputs on rice farmers.

"In addition to my fertilizer costs more than doubling, my energy costs have about doubled, and associated costs for machinery, parts and labor have gone up at least 20% from last year," he says.

He noted the loss of revenue from rising costs will likely lead to a 38-year low in rice acres planted throughout the United States.

"In Texas, we planted about 186,000 acres of rice this year, but only expect to plant about 175,000 acres next year," he says.

Raun notes that this reduction in acres planted will also negatively affect the suppliers, processors and others who service the rice industry. He also says as producers plant less rice, customers will need to seek out other suppliers to meet their needs.

"Once you've lost market share, it's pretty hard to get it back," he says.

Raun says his budget projections indicate his rice-farming operation will suffer a "six-digit loss" this year.

Further considerations

For context, Outlaw notes that net cash farm income in 2021 included a significant amount of ad hoc assistance.

"Absent another infusion of assistance in 2022, we estimate that significant increases in input prices will result in a huge decline in net cash farm income in 2022 compared to 2021," he says.

Outlaw notes, however, that despite significant reductions in net cash income compared to 2021, high commodity prices will likely keep most of AFPC's representative farms in the black.

"The noticeable outlier is rice, where two-thirds of the rice farms face losses in 2022," he says.

Outlaw also notes much of the AFPC analysis hinges on producers being able to lock in high commodity prices at average yields.

"But with drought ravaging half of the country and many other areas facing excess moisture, this assumption may be overly optimistic," he says. "This is perhaps the most important point to note because producers are beginning to plant a crop that will require them to put an enormous — indeed historic — amount of capital at risk."

Analysis of the report



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For this analysis, the AFPC sent each of the 489 representative farm panel members an email to solicit the amount spent per acre on inputs for the 2021 crop year and the amount they expect to spend this year. The percentage change for each category was calculated for each respondent.

"This analysis focuses on the change in net cash farm income for 2022 relative to 2021 to determine whether expected commodity price increases are likely to offset input cost increases as reported by the representative farm panelists," Fischer says. "The ending cash balance on hand at the end of 2022 is also reported to indicate whether net farm income is high enough in 2022 to pay all other obligations, such as principal payments, family living expenses and taxes."

He says projections beyond this crop year for input costs were not possible due to the extreme volatility in input prices.

The 64 crop farms by type included 25 feed grain and oilseed farms, 11 wheat farms, 13 cotton farms and 15 rice farms. Report results showed:

- Net cash farm income on the representative feed grain and oilseed farms is projected to decline by an average of \$534,000 from 2021 to 2022 across the 25 feed grain and oilseed farms.
- Representative wheat farms face an average reduction in net cash farm income of \$399,000.
- Representative cotton farms face an average reduction in net cash farm income of \$716,000.
- Rice farms face the largest reduction in net cash farm income per farm at \$880,000 and a per acre reduction of \$442.

The report was compiled by Outlaw and Fischer. Other department contributors included Henry Bryant, J. Marc Raulston, George Knapke, and Brian Herbst. The AFPC is part of Texas A&M AgriLife Research and the Texas A&M AgriLife Extension Service.



Roland joins Meadowlark Extension District as 4-H Youth Development agent

Clay Roland will begin serving as the Meadowlark District 4-H Youth Development Extension agent, effective June 13. Meadowlark District has offices in Holton, Oskaloosa and Seneca, Kansas. Roland's primary office is in Oskaloosa.

Roland earned his bachelor's degree in Animal Science from the University of Nebraska-Lincoln and his master's degree in Meat Science from the University of Florida. He has most recently been employed as an agriculture instructor and livestock judging coach for Laramie County Community College in Cheyenne, Wyo.

4-H youth development agents develop and deliver educational programs for school-aged youth. This includes supporting community clubs, out-of-school programs, school enrichment, volunteer management, and outreach to create new program opportunities with new and existing community partners.

More information about K-State Research and Extension Meadowlark District is available online at meadowlark.k-state.edu. Contact Clay Roland via email at croland@ksu.edu.

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It also is recommended that producers document the loss and provide a statement from a veterinarian verifying it was due to heat. Documentation of the temperature, heat and humidity from a local weather station leading up to and through the loss event also should be provided.

Beef cow slaughter continues unabated

By Derrell Peel, Oklahoma State University

Through the end of May, beef cow slaughter for the year to date is 15 percent higher year-over-year. With nearly half the year over, it is very likely that the annual beef cow slaughter total will be up by double digits year-over-year. While some drought reduction regionally has improved pasture conditions (Oklahoma is a good example), range and pasture conditions nationally are still at the worst level ever for this time of year.

In other areas drought continues to expand. Colder than normal weather in northern regions this spring and reduced fertilizer use everywhere are also contributing to delayed and reduced pasture and hay production. The most recent weeks of slaughter data have year-over-year beef cow slaughter increasing rather than decreasing as the reality of reduced pasture and hay production becomes clear moving into June.

All of this is in addition to a 9 percent increase in beef cow slaughter in 2021 over the previous year (the result of drought) and a net herd culling of 11.6 percent. Drought, which began regionally in 2020, expanded and accelerated herd liquidation in 2021, leading to a 2.33 percent decrease in the beef cow herd last year. The beef cow inventory peaked recently in 2019 at 31.69 million before declining to the January 1, 2022 level of 30.13 million head, a 4.9 percent decrease in three years.

What can we expect for the beef cow herd in 2022? The change in the beef cow herd each year depends on the net impact of heifer retention and cow culling. Heifer retention for 2022 is already determined at this point. We know that we started the year with 5.61 million beef replacement heifers, 18.6 percent of the Jan. 1 beef cow inventory. Of those, 3.41 million head are expected to calve

in 2022. Cow culling relative to the available replacement heifers will determine the change in the herd inventory this year.

Given beef cow slaughter so far this year a significant level of culling is guaranteed. In order for the level of beef cow slaughter to just hold steady with last year, beef cow slaughter for the remainder of the year would have to drop 9.4 percent year-over-year. That is extremely unlikely. Note that beef cow slaughter in 2021 was 3.56 million head. A 2022 beef cow slaughter level equal to that implies herd liquidation given the 3.41 million heifers expected to calve this year, even if every one of those heifers actually entered the herd.

Just holding cow slaughter for the remainder of this year equal to last year would still result in an annual increase in cow slaughter of 5.9 percent because of slaughter so far this year. That would result in a record herd culling level of 12.5 percent in 2022. That also seem unlikely at this point. The current level of beef cow slaughter suggests a culling rate in excess of 13 percent this year and a potential beef cow herd decline of one million head or more.

Is it too late for 2022? That point is rapidly approaching. Just a few more weeks of the current level of beef cow slaughter will seal the deal for this year. It is also not clear what is happening with the unborn replacement heifers from January 1. Those heifers should be getting bred this year to calve next year. However, drought may be shifting them into feeder markets with implications for a smaller inventory of heifers calving in 2023. Significantly improved conditions in the second half of 2022 could allow for more heifer calf retention this year, with implications for potential herd rebuilding in 2024.

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Adding value to calves at sale time

By Heather Smith Thomas

There are several ways to make calves more attractive to buyers, adding more value to groups of calves at sale time and building more demand for them. Russ Daly, veterinarian with South Dakota State University, says any kind of preconditioning health care program will be beneficial.

"Most of the health preparation for disease prevention should have already been done before calves are weaned," Daly says. "Weaning is the most stressful time, so this should be behind them."

Whether you wean in spring or fall, he says, a good preweaning vaccination program is important to ensure calves' immune systems have been stimulated before they are stressed with weaning.

"Then we don't have to worry about the effects of stress and low nutrient intake (at weaning) hindering their vaccine response," he explains.

If the calves have weathered the first weeks or months after weaning, they will likely remain healthy, Daly says.

His recommendation for a booster vaccination in the spring for fall-weaned calves depends on several things, Daly says. "One factor might be whether the calves will

be transported long distances to a sale or somewhere to grass. Booster of their previous respiratory and clostridial vaccines might be a good idea to decrease the risk for illness after transport."

Yearlings or long yearlings may not need any boosters, Daly says, because they are generally at lower risk for future illness. It's not a common practice to boost the vaccinations of those animals before shipping to a feedyard or shipping out to grass.

The producer might discuss with potential buyers whether a booster vaccination would make those cattle more attractive.

"This is especially true if the buyer is bringing several groups together from various sources," says Daly. "This makes it more important for those animals to have a good immune response on board when they get to their destination."

If the cattle purchased from a certain producer always perform well and stay healthy, that buyer will be more interested in continuing to buy those cattle in the future.

"Usually, we don't see many health problems after we get young cattle through the backgrounding process un-

less there's a long, stressful transport," says Daly. "Sometimes it can be beneficial for the seller's veterinarian and buyer's veterinarian to communicate, especially if cattle are entering or coming from a situation where there are problems like liver flukes."

The seller would do well to know what the buyer wants and tailor the package.

"Regarding any kind of preconditioning, it all comes back to what value the buyer will find in those calves," he says. "With grass cattle it may pay to have certain vaccinations in place if there may be issues like pinkeye or foot rot. If cattle have not been vaccinated for blackleg, this is another problem we see. There are also pockets of anthrax in certain areas. Calves are usually less susceptible than adults, but this would be something you'd want to know going out to pasture and might be of more concern for the buyer than the seller."

Many health considerations tend to fall more on the buyer than the seller. If you don't want to leave any money on the table, you should have a well-planned management program ahead of time, Daly recommends. It's too late to think about it just before a sale, because you won't get all the benefit from it at that late date.

K-State vet shares tips for managing cattle through heat

A Kansas State University veterinarian is urging cattle producers to beef up their plans for managing heat stress in their herds, a challenge that costs the U.S. cattle industry up to \$370 million in losses each year.

A.J. Tarpoff, a beef veterinarian with K-State Research and Extension, said cattle are resilient animals; they will often acclimate to hot temperatures.

But an accumulation of factors - including humidity, solar radiation, the color of their hide, diet and more - can drastically change a cow's ability to

withstand summer's heat.

"It really is a multi-layer challenge," Tarpoff said. "Each animal within a group or pen is not affected the same way. Animals with higher body condition scores, or with darker hides, or finisher steers and heifers that are getting ready to go to harvest are at higher-risk of heat stress."

Tarpoff said heat stress decreases the reproductive efficiency and performance of cattle grazing on pasture. In confined facilities, heat stress often causes cattle to eat less, which also negatively af-

fects their performance.

The human body cools itself on a hot day by sweating, called evaporative cooling. But Tarpoff notes that cattle sweat only 10 percent as much as humans, and panting is their primary way of dissipating heat.

"As temperatures rise and their heat load increases, they will start breathing faster," he said. "They are dissipating heat through tiny droplets in the respiratory tract."

Doing so, however, causes cows to eat less, setting them on a path to poor growth and future

performance.

"This all has to do with heat load," Tarpoff said. "The internal temperature of cattle will peak two hours after the hottest point of the day. So our strategy for keeping cows cool needs to be built around knowing that."

Another factor is that cattle produce heat by digesting food, typically four to six hours after eating. "So if we feed animals within the wrong period of time, we can actually increase their heat load because the heat of digestion and the heat from the environment are building

on top of each other," Tarpoff said. "We want to keep that from happening."

Tarpoff listed best management practices for helping to reduce heat stress in cows:

- Handling. Receive, ship or move cattle only during the coolest parts of the day, preferably before 10 a.m.
- Feeding. Modify feeding times. Feed 70 percent of the animals' ration as late in the evening as possible, which puts the peak heat of digestion overnight when temperatures are likely cooler. Decrease feeding during the day.
- Managing heat. Split cattle between pens or reduce stocking density. Maximize airflow by removing obstructions around facilities, including weeds. If feasible, install shade structures, which can reduce solar radiation and reduce the temperature on the pen's floor. Install sprinklers to wet cattle down at night or early morning so as not to increase humidity.

Then, of course, there is the importance of providing water. Lots and lots of water.

"To put it into perspective, when the temperature goes from 70 degrees Fahrenheit to 90 degrees, a cattle will consume about double the amount of water," Tarpoff said. As a rule, he said cattle should consume "about five times the amount of water as the dry matter they are consuming."

"Cool, clean and readily-available water is critical during heat stress events. We may have to increase the water tank capacity within a pen to meet these needs with portable water troughs. Producers need to be prepared for that."

Tarpoff said he follows two sources for help in making a decision when to put a heat stress management plan into full effect.

The U.S. Meat Animal Research Center (MARC) maintains a seven-day forecast tool for the United States, taking into account temperature, humidity and solar radiation.

"The other tool I use is the Kansas Mesonet, which provides an animal comfort index," he said. The Kansas Mesonet, housed at Kansas State University, is a network of observation towers located across the state that updates climate information every hour.

"Right now, if we don't have night-time cooling hours, the animal won't be starting each day at thermo-neutral, so they're more at risk on the second or third day," Tarpoff said. "Temperature, humidity, solar radiation - but most importantly right now wind speed - all play a role in dissipating heat. Operations should start implementing strategies for controlling these stressors if they haven't already."

For more information or assistance, contact your local Extension agent.

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4 bkbwf	579@157.00	3 blk	703@156.50
4 blk	594@156.00	11 blk	854@159.00
2 mix	503@153.00	10 mix	841@158.00
2 bwf	628@153.00	2 Char	888@158.00
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North American Meat Institute believes special investigator to cost taxpayers \$9 million is redundant

The North American Meat Institute (Meat Institute) released the following statement after the U.S. House of Representatives approved H.R. 7606, the Lower Food and Fuel Cost Act, a bill that establishes a special investigator for meat and poultry at the U.S. Department of Agriculture:

"We are disappointed the House voted to waste \$9 million in taxpayer dollars on a redundant special investigator when that money would be much better spent helping Americans seeking assistance from record inflation," said Julie Anna Potts, president and CEO of the Meat Institute. "This bill simply replicates the authorities already granted to USDA and the Department of Justice to enforce the Packers and Stock-

yards Act and creates an expensive new government office."

The bill creates an Office of the Special Investigator within USDA to investigate and prosecute Packers and Stockyards Act claims. The office also would have the authority to bring civil actions, which circumvents the Department of Justice's authority. In addition, the Special Investigator would consult with the Federal Trade Commission and Department of Justice regarding competition and trade practices across all of food and agriculture, and consult with the Department of Homeland Security regarding national security and critical infrastructure security issues across all of food and agriculture.

The bill must now be

considered by the U.S. Senate.

The leading livestock producer organizations, the National Cattlemen's Beef Association and National Pork Producers Council, both oppose the Special Investigator bill. The House Agriculture Committee held three hearings this Congress to examine cattle and beef markets. The Special Investigator bill was not discussed at any hearing.

"Of particular concern is the creation of a special investigator empowered to enforce the new changes to the Packers and Stockyards Act regulations soon to be announced by the Biden administration," said Potts. "These rules - like those previously proposed by USDA under then Secretary Tom Vilsack in 2010 - are likely to have far reaching, unintended adverse con-

sequences. The special investigator (and staff) would feel emboldened and obligated to bring as many cases as possible, warranted or not, to test and expand the legal limits of the new rules. The resulting legal uncertainty and market chaos will accelerate unpredictable changes in livestock and poultry marketing that will add costs to both producers and consumers at a time of high inflation. Congress should not create a duplicative enforcement office, particularly when Congress doesn't know what those new rules will be.

"The President's budget request includes increased funding for the Packers and Stockyards program. If there is a problem that must be addressed, Congress should address it through the appropriations process

within the context of the existing programmatic office, not by expanding

the government with new, redundant offices and authorities."



811 N. Main St.
South Hutchinson, Ks

www.centrallivestockks.com

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

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

Tues., June 28th - NO SALES
Tues., July 5th - NO SALES
Sat., July 9th - Horse & Tack Sale
Tues., July 12th - Calf/Yearling Special
ALL WEIGH COWS & BULLS SELL AT THE END

Senate confirms USDA chief scientist

The Senate approved the nomination of Dr. Chavonda J. Jacobs-Young to be USDA undersecretary of agriculture for Research, Education, and Economics (REE). The Senate Agriculture Committee took up her nomination in a business meeting in January and held a hearing on her nomination in November 2021.

Nearly 100 industry groups and stakeholders expressed support for Jacobs-Young's nomination in a letter to Senate Ag Committee leadership in November, calling her the ideal candidate to lead the REE mission area with the experience and scientific expertise needed to lead U.S. research, education, and economics into a new era of innovation.

Jacobs-Young currently serves as acting deputy undersecretary for REE, acting USDA chief scientist, administrator for the Agricultural Research Service, and is former acting director for USDA's National Institute of Food and Agriculture.

We want to see your Kid's Corner pages!

Send us any completed Kid's Corner page and you could **win a prize!**

Contest will run several weeks starting June 21st — 4 prizes, 4 chances to win!!!!

Winners will be drawn randomly from all submissions received by 9 a.m. the Friday prior to the edition. If no submissions are received, contest will be extended. No limit on number of submissions, but you may only win once.

— GRAND PRIZE - DAY PASS TO FLINT HILLS DISCOVERY CENTER —

OTHER PRIZES TO BE ANNOUNCED!

Be sure to include your name, age, mailing address & phone number with each submission.

Mail your submissions to: PO Box 1009, Manhattan, KS 66505
Or bring them by the office: 1531 Yuma St., Manhattan, KS 66502

Holton Livestock Exchange, Inc.

1/2 mile East of Holton, KS on 16 Highway
Livestock Auction every Tuesday at 11:00 AM
****STARTING TIME: 11:00 AM****

MARKET REPORT FOR TUESDAY, JUNE 14, 2022
RECEIPTS: 502 CATTLE
FOR FULL RESULTS, VISIT OUR WEBSITE:
WWW.HOLTONLIVESTOCK.COM

STEERS		HEIFERS	
1 blk bull	Valley Falls 175@245.00	2 blk	Valley Falls 192@205.00
6 blk	Atchison 443@216.00	3 blk rwf	Troy 415@189.00
8 blk	Effingham 518@216.00	3 bwf	Holton 376@182.00
6 blk bwf	Whiting 502@212.50	6 blk	Effingham 544@176.00
5 blk	Goff 522@208.00	6 blk	Goff 441@173.50
22 blk	Atchison 577@200.00	4 blk	Atchison 580@168.50
6 blk	Goff 610@192.50	5 blk	Atchison 489@166.00
18 blk	Effingham 612@192.00	5 blk	Effingham 618@161.50
6 blk	Goff 639@189.00	7 blk	Faucett, MO 596@159.00
5 blk	Atchison 684@169.00		
13 blk bwf	Whiting 692@168.00		

We will maintain our REGULAR WEEKLY TUESDAY AUCTION SCHEDULE through JUNE.
We will be CLOSED JULY 5th, Resuming our Regular Weekly Tuesday Auctions on July 12.

Dan Harris, Auctioneer & Owner • 785-364-7137
Danny Deters, Corning, Auct. & Field Rep • 785-336-1622
Dick Coppinger, Winchester, Field Rep. • 913-683-5485
Steve Aeschliman, Sabetha, Field Rep. • 785-284-2417
Larry Matzke, Wheaton, Field Rep. • 785-268-0225
Craig Wischropp, Horton, Field Rep. • 785-547-5419
Mark Servaes, Atchison, Field Rep. • 816-390-2549
Barn Phone • 785-364-4114
WEBSITE: www.holtonlivestock.com
EMAIL: dan@holtonlivestock.com

View our auctions live at "Imauctions.com"

EL DORADO LIVESTOCK AUCTION, INC.

316-320-3212

Fax: 316-320-7159
2595 SE Highway 54, P.O. Box 622,
El Dorado, KS 67042

Market Report - Sale Date 6-16-22. 429 head.

400-500 lb. steers, \$186-\$200; heifers, \$160-\$179; 500-600 lb. steers, \$161-\$188; heifers, \$142-\$167; 600-700 lb. heifers, \$134-\$163; 900-1,000 lb. steers, \$145-\$153.35. **Trend on Calves:** No good test on any weight class. **Trend on Feeder Cattle:** Very few feeder hfrs but a firmer undertone noted. Fdr str, \$3-\$4 higher. **Butcher Cows:** high dressing cows \$85-\$99; Avg. dressing cows \$75-\$85; low dressing cows \$45-\$65. **Butcher Bulls:** Avg. to high dressing bulls \$70.50-\$114.50. **Trend on Cows & Bulls:** Mostly \$2-\$4 higher.

Some Highlights Include:

HEIFERS			
6 mix	489@174.00	5 mix	521@188.00
9 mix	596@167.00	7 red	565@186.00
8 mix	804@143.50	105 blk	950@153.35
		52 mix	964@149.60

STEERS	
6 mix	471@200.00

Next Sale: Thursday, June 23, 11:00 AM

- 2 loads fancy blk steers off grass, 950-1000
- 2 loads fancy mostly blk steers, 925-975
- 250 fancy mostly blk heifers, off grass 750-825
- 1 load mostly blk steers, 875-925
- 100 mostly blk steers & heifers, HR, 550-650
- 28 Red Angus steers, HR, weaned 60+, 600-700
- 1 load mostly blk steers, 900-950
- 107 mix steers, 800-900
- 40 mx st 600-800
- 100 mostly blk steers, weaned 60-75 days, 475-550

GO TO OUR WEBSITE FOR DAILY CONSIGNMENT UPDATES
WWW.ELDORADOLIVESTOCK.COM

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

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

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

Cattle Sale Every Thursday 11:00 AM



June is Dairy Month!

Watch for Kid's Corner All Summer!

Happy Harvest!



Cupcake Liner Ice Cream Cone Kids Craft

Supplies you will need:

cupcake liners - light blue or white cardstock or construction paper (or color of your choice) - light brown cardstock or construction paper - brown paint or brown marker - plastic fork - small paper plate - craft glue or tape - scissors - embellishments of your choice (black paper hole punches, craft jewels, construction paper pieces, use your imagination! You could also use markers to draw your embellishments.)

Directions:

1. Start by cutting a triangle ice cream cone shape out of your light brown cardstock paper. Pour a small amount of brown paint onto your small paper plate and dip your fork into it lightly and then onto your cone. Make lines in both directions to resemble the pattern on an ice cream cone. Set it aside to dry completely.
2. Glue your cone onto your light blue cardstock paper. Glue your cupcake liner ice cream scoops on top of your cone. Use how ever many you choose.
3. Glue any embellishments you want onto your ice cream scoops to make them fun flavors. In this example, we used black hole punch circles to make mint chocolate chip ice cream and colorful neon gemstones to make bubblegum ice cream.

<https://thecraftythings.com/cupcake-liner-ice-cream-cone-kids-craft.html>

Kansas Hay Market Report

Compared to the last report, for the week ending June 11, overall alfalfa price was 5.00 higher while grass hay was mostly steady. Movement remains slow. Everyone is busy in the fields putting up hay unless it is raining. Rain was reported again recently, even in the areas hardest hit by drought, but the bulk fell in the east of course, where they would like to get their beans planted and brome put up. Accounts continue to roll in from producers that their first cut yield is one half to three-quarters light, but with the rain they are more optimistic about second cutting. According to the U.S. Drought Monitor for June 7th, heavy rainfall (1.5 to 3 inches, locally more) resulted in a 1-category improvement to southeastern and central Kansas. More than 1.5 inches of rainfall this past week, along with soil moisture supported a change from exceptional (D4) to extreme (D3) drought in parts of southwestern Kansas and adjacent southeastern Colorado. Abnormally dry conditions (D0) is currently 11%, moderate drought (D1) remained near 21%, severe drought (D2) is at 8%, extreme drought (D3) decreased to 18%, and exceptional drought (D4) is at 1%. If you have any extra hay to sell and/or need hay here in Kansas, use the services of the Internet Hay Exchange: www.hayexchange.com/ks.php.

Southwest Kansas

Dairy alfalfa steady, grinding alfalfa and ground and delivered steady to 5.00 higher, movement slow. Alfalfa: horse, premium small squares old crop 7.00-8.00/bale. Dairy 1.05-1.10/point RFV, Supreme 200.00-255.00, Premium 180.00-205.00, Good 155.00-185.00. Stock or Dry Cow 200.00-210.00. Grinding alfalfa, large rounds 190.00-200.00, new crop 200.00-215.00 delivered; new crop large square

3x4's and 4x4's 235.00-245.00. Ground and delivered locally to feed lots and dairies, 210.00-220.00, new crop 235.00-245.00; Grass Hay: Bluestem, small squares 8.00-9.00/bale, large rounds 85.00-95.00. Brome, large rounds 180.00-190.00 delivered. The week of 06/05-06/11, 6,784T of grinding alfalfa and 300T of dairy alfalfa was reported bought or sold. The average paid by feedlots on June 1 for alfalfa ground and delivered was \$205.30, up \$4.81 from the previous month, usage was 638T/day, down .50% and total usage was 19,778T.

South Central Kansas

Dairy alfalfa, alfalfa pellets steady, grinding alfalfa and ground and delivered, steady to 5.00 higher, movement slow. Alfalfa: horse, small squares 255.00-275.00. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00, new crop 215.00-230.00. Premium 180.00-210.00, Good 155.00-185.00. Good, Stock cow, 180.00-200.00. New crop 215.00-225.00. Fair/good grinding alfalfa 170.00-180.00 delivered. New crop 190.00-200.00. Ground and delivered 195.00-205.00, new crop 225.00-235.00. Alfalfa pellets: Sun cured 15 pct protein 245.00-250.00, 17 pct protein 250.00-260.00, Dehydrated 17 pct 310.00-315.00. Grass Hay: Bluestem, large squares 4x4 150.00-160.00 delivered, small squares none reported. Brome: none reported. The week of 06/05-06/11, 5,640T of grinding alfalfa and 225T of dairy alfalfa was reported bought or sold. The average paid by feedlots on June 1 for alfalfa ground and delivered was \$189.43, down \$3.54 from the previous month, usage was 282T/day, up 39% and total usage was 8,755T.

Southeast Kansas

Dairy alfalfa, grinding alfalfa steady, old crop grass hay steady, movement slow. Alfalfa: horse or goat, 260.00-270.00. Dairy 1.00-1.05/point RFV. Good, stock cow 180.00-190.00. Fair/Good grinding alfalfa, 155.00-165.00, new crop 175.00-200.00. Ground and delivered, none reported; Grass hay: Bluestem, small squares 120.00-125.00, good 3x4 squares 100.00-120.00, old crop large rounds 75.00-80.00. Brome, old crop 3x4 and 4x4 squares 115.00-130.00.

The week of 06/05-06/11, 926T of grass hay was reported bought or sold.

Northwest Kansas

Dairy alfalfa, grinding alfalfa steady, movement slow. Alfalfa: Horse or goat, small squares 300.00-400.00 delivered, 3x4 squares 250.00-260.00. Dairy, Premium/Supreme 1.05-1.10/point RFV. Stock cow, fair/good 185.00-195.00. Fair/good grinding alfalfa, 170.00-185.00. Sudan, utility large rounds 80.00-90.00.

North Central-Northeast Kansas

Dairy alfalfa, grass hay steady, ground/delivered steady, grinding alfalfa steady to 5.00 higher; movement slow to moderate. Alfalfa: horse, premium small squares, 10.00-12.00/bale. Dairy 1.05-1.10/point RFV, Supreme 195.00-250.00, Premium 180.00-205.00, Good 160.00-190.00. Stock Cow, 160.00-170.00. Fair/good, grinding alfalfa 165.00-175.00, new crop 175.00-185.00, with an instance at 200.00; Ground and delivered 175.00-185.00. Grass hay: Bluestem, large 3x4 squares 130.00-140.00 delivered, 3x3 squares 100.00-110.00, good large rounds 85.00-100.00, Brome, small squares 8.50-9.50/bale, large rounds 95.00-110.00; The week of 06/05-06/11, 2,315T of grinding alfalfa and 450T of dairy alfalfa was reported bought or sold.

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

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

*CWF Certified Weed Free

*RFV calculated using the Wis/Minn formula.

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

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

Sen. Marshall's Ocean Shipping Reform Act signed into law

U.S. Sen. Roger Marshall, M.D. released the following statement after the Ocean Shipping Reform Act, legislation he helped introduce alongside a bipartisan group of senators, was signed into law by President Joe Biden:

"Bottlenecks at ports amid the supply chain crunch are making it difficult for Kansas farmers to reach vital international markets. Through this crisis we've learned that reform was needed to help provide our farmers, ranchers, and producers fair access to the global economy. The Ocean Shipping Reform Act ensures ocean carriers operate with good faith, under fair and transparent rules, while ending their unfair practices. I certainly believe this legislation will improve efficiency in broken supply chains, but let me make it clear that Joe Biden's reckless spending and policies are why prices are increasing every day for Kansans. President Biden must completely abandon his failing agenda if our country is going to dig out of this economic disaster."

Background on the Ocean Shipping Reform Act:

- The Ocean Shipping Reform Act was introduced in the U.S. Senate by U.S. senators Amy Klobuchar (MN) and John Thune (SD). Marshall was an original cosponsor of this legislation along with 11 of his colleagues.

- The Ocean Shipping Reform Act will:

- Prohibit ocean carriers from unreasonably refusing cargo space accommodations for U.S. exports and from discriminating against U.S. exporters;
- Promote transparency by requiring ocean common carriers to report to the FMC each calendar quarter on total import/export tonnage and twenty-foot equivalent units (loaded/empty) per vessel that makes port in the United States;
- Authorize the FMC to self-initiate investigations of ocean common carrier's business practices and apply enforcement measures, as appropriate; and
- Establish new authority for the FMC to register shipping exchanges to improve the negotiation of service contracts.

REAL ESTATE & PERSONAL PROPERTY AUCTION

THURSDAY, JUNE 30, 2022
*** 4:00 PM ***

LOCATION: 406 S. Prairie Lake Road, BURRTON, KANSAS 67020

VEHICLES & EQUIPMENT: 1947 Cadillac, disassembled & ready for primer & paint, all accessories go with it, has 305 Chevy engine; 2 Original Cadillac engines, 1 is good, the other one for parts; 1997 Mercury Grand Marquis Car w/200k plus miles; 1969 F-100 Pickup w/350 engine; 2004 Impala Car; 1985 Winnebago Motor Home; 350 Ford engine; 8N Ford Tractor; 6' blade; Pickup bed trailer; Boat & Trailer; Coleman Pop-Up Camper, sleeps 3; Car Manuals.

SHOP TOOLS & ACCESSORIES: A-Frame; Classic Vertical Air Compressor; Lincoln AC 225 Welder; Engine Stands & Cherry Pickers; Hyd Jacks; Tire Bead Breaker & Tools; Log Chains & Boomers; Electric & Air Tools; Come-A-Long Pullers; Screws, Bolts & Nails; Bench Grinder; DeWalt Cordless Tools; Pipe Wrenches; Pry Bars; Bolt Bins; Sump Pump; Floor Jack; Saw Horses; Socket Sets; Open & Boxend Wrenches; Screwdrivers; Vise Grips; Crescent Wrenches; Die Hard Battery

CHARGER: Allen Wrenches; Mallets; Hammers; Pliers; Nippers; Shop Fans; 2 Wheel Dolly; Oils, Paint & Lubricants; Lots of Shop Assec.

LAWN & GARDEN: 4 Leg Windmill; Craftsman Riding Mower; Front Tine Tiller; Shovels; Rakes; Forks; Lawn & Garden Tools; 2 Wheel Lawn Trailer.

HOUSEHOLD & COLLECTIBLES: Amana washer & Dryer; GE Microwave; Refrigerator; Gas Range; Frigidaire Upright Freezer; Dining Table & Chairs; Living Room Furniture; Glider Rockers; Recliners; Coffee Tables; Full Iron Bed; Dresser; Night Stands; Parlor Chairs; Wooden Rockers; Vintage Buffet; Various Wooden Chairs; Singer Sewing Machine & Serger; Quilt Racks; Lamps; Lots of Canning Jars; Roasters; Pressure Cooker; Tupperware; Various Pots & Pans; Misc Glassware; Coffee Pots & Mugs; Stemware Glasses; Cups & Saucers; China Sets; Cleaning Supplies; Shoe Stretchers; Pictures & Frames; Games & Puzzles; Model Cars; Lots of Books; *plus many more items.*

AUCTIONEER'S NOTE: Mr. Borntrager was a Body Shop and Mechanic guy, so he has all the tools, parts and pieces that go with that occupation. Real Estate sells at 6 PM and for more info about the home, go to riginhomes.com

SELLERS: DAN & DONNA BORNTRAGER

Morris Yoder Auctions • 620-899-6227
Email: morris_yoder@yahoo.com
Website: morrisyoderauctions.com

Terms: Cash, Credit Card or Check with Proper ID

Morris Yoder, Auctioneer/Realtor, 620-899-6227/Associate Realtor/Auctioneer w/Riggin & Company

Grass & Grain Weather Report June 22, 2022

Seven Day Forecast	In-Depth Local Forecast	Today's Local Outlook																																																
WEDNESDAY Scattered T-storms High: 90 Low: 70	Today we will see mostly cloudy skies with a 40% chance of showers and thunderstorms, high temperature of 90°, humidity of 49%. East wind 3 to 9 mph. The record high temperature for today is 106° set in 2016.																																																	
THURSDAY Partly Cloudy High: 96 Low: 77	Last Week's Almanac <table border="1"> <thead> <tr> <th>Date</th> <th>Hi/Lo</th> <th>Normals</th> <th>Precip</th> </tr> </thead> <tbody> <tr><td>6/10</td><td>86/67</td><td>84/60</td><td>0.00"</td></tr> <tr><td>6/11</td><td>95/66</td><td>84/61</td><td>0.66"</td></tr> <tr><td>6/12</td><td>91/80</td><td>85/61</td><td>0.00"</td></tr> <tr><td>6/13</td><td>100R/83</td><td>85/61</td><td>0.00"</td></tr> <tr><td>6/14</td><td>94/81</td><td>85/62</td><td>0.00"</td></tr> <tr><td>6/15</td><td>89/72</td><td>85/62</td><td>0.00"</td></tr> <tr><td>6/16</td><td>97/70</td><td>86/62</td><td>0.00"</td></tr> </tbody> </table>	Date	Hi/Lo	Normals	Precip	6/10	86/67	84/60	0.00"	6/11	95/66	84/61	0.66"	6/12	91/80	85/61	0.00"	6/13	100R/83	85/61	0.00"	6/14	94/81	85/62	0.00"	6/15	89/72	85/62	0.00"	6/16	97/70	86/62	0.00"																	
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FRIDAY Sunny High: 95 Low: 74	Rainfall 0.66" Normal rainfall 1.37" Departure -0.71" Average temp. 83.6° Average normal 73.1° Departure -410.5°																																																	
SATURDAY Mostly Sunny High: 99 Low: 80	This Week's Sun & Moon Chart <table border="1"> <thead> <tr> <th>Day</th> <th>Sunrise</th> <th>Sunset</th> <th>Moonrise</th> <th>Moonset</th> <th>Phase</th> </tr> </thead> <tbody> <tr><td>Wednesday</td><td>6:01 a.m.</td><td>8:56 p.m.</td><td>2:15 a.m.</td><td>3:06 p.m.</td><td>Full</td></tr> <tr><td>Thursday</td><td>6:01 a.m.</td><td>8:56 p.m.</td><td>2:39 a.m.</td><td>4:08 p.m.</td><td>7/13</td></tr> <tr><td>Friday</td><td>6:01 a.m.</td><td>8:56 p.m.</td><td>3:03 a.m.</td><td>5:10 p.m.</td><td>7/13</td></tr> <tr><td>Saturday</td><td>6:02 a.m.</td><td>8:56 p.m.</td><td>3:31 a.m.</td><td>6:12 p.m.</td><td>7/13</td></tr> <tr><td>Sunday</td><td>6:02 a.m.</td><td>8:56 p.m.</td><td>4:02 a.m.</td><td>7:13 p.m.</td><td>7/13</td></tr> <tr><td>Monday</td><td>6:02 a.m.</td><td>8:56 p.m.</td><td>4:39 a.m.</td><td>8:12 p.m.</td><td>7/13</td></tr> <tr><td>Tuesday</td><td>6:03 a.m.</td><td>8:56 p.m.</td><td>5:21 a.m.</td><td>9:06 p.m.</td><td>7/20</td></tr> </tbody> </table>	Day	Sunrise	Sunset	Moonrise	Moonset	Phase	Wednesday	6:01 a.m.	8:56 p.m.	2:15 a.m.	3:06 p.m.	Full	Thursday	6:01 a.m.	8:56 p.m.	2:39 a.m.	4:08 p.m.	7/13	Friday	6:01 a.m.	8:56 p.m.	3:03 a.m.	5:10 p.m.	7/13	Saturday	6:02 a.m.	8:56 p.m.	3:31 a.m.	6:12 p.m.	7/13	Sunday	6:02 a.m.	8:56 p.m.	4:02 a.m.	7:13 p.m.	7/13	Monday	6:02 a.m.	8:56 p.m.	4:39 a.m.	8:12 p.m.	7/13	Tuesday	6:03 a.m.	8:56 p.m.	5:21 a.m.	9:06 p.m.	7/20	
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SUNDAY Sunny High: 100 Low: 79	Local UV Index 0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure																																																	
MONDAY Sunny High: 98 Low: 80	Weather History June 22, 1972 - Hurricane Agnes deluged Pennsylvania and New York State with the most costly flood in U.S. history. At Wilkes-Barre, Penn., the dike was breached destroying much of the town. Flooding resulted in 117 deaths and 3.1 billion dollars damage.																																																	
TUESDAY Sunny High: 100 Low: 79	Growing Degree Days <table border="1"> <thead> <tr> <th>Date</th> <th>Degree Days</th> <th>Date</th> <th>Degree Days</th> </tr> </thead> <tbody> <tr><td>6/10</td><td>26</td><td>6/14</td><td>37</td></tr> <tr><td>6/11</td><td>30</td><td>6/15</td><td>30</td></tr> <tr><td>6/12</td><td>35</td><td>6/16</td><td>33</td></tr> <tr><td>6/13</td><td>41</td><td></td><td></td></tr> </tbody> </table>	Date	Degree Days	Date	Degree Days	6/10	26	6/14	37	6/11	30	6/15	30	6/12	35	6/16	33	6/13	41																															
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LAND AUCTION

Jennifer Schaulis Living Trust - Seller

00000 Limestone Rd, Wakefield, KS

THURSDAY, JULY 7, 2022
at 7:00 PM (on site)

Approximately 177.6 acres located on the east side of Limestone Rd. between 2nd & 3rd Rd. in Clay County

(1/2 mile East of Industry, KS & 1 1/2 miles North)

Possession of land will be given after harvest of this years wheat.

Go to: www.soldbywilson.com for more information

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Sell At St. Marys

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

We sold 577 cattle June 14. Steer and heifer calves sold steady on a light test. Feeder steers and heifers were steady to \$5.00 higher. Cows and bulls were steady.	2 blk hfrs 565 @ 154.00 1 blk hfr 630 @ 152.00 23 blk/red hfrs 732 @ 148.50 65 blk/bwf hfrs 828 @ 147.75 1 blk hfr 555 @ 147.00 2 blk hfrs 630 @ 147.00 1 blk hfr 695 @ 141.00 2 blk/bwf hfrs 715 @ 139.50	1 blk cow 1510 @ 88.50 1 red cow 1060 @ 88.00 1 bwf cow 1340 @ 87.50 1 blk cow 1530 @ 87.00 1 blk cow 1295 @ 86.00 1 blk cow 1410 @ 85.50 1 blk cow 1310 @ 85.00 1 bwf cow 1205 @ 84.00 1 blk cow 1115 @ 83.00 1 blk cow 1035 @ 82.50 1 blk cow 1405 @ 82.00 1 blk cow 1290 @ 80.00 1 blk cow 985 @ 79.00 1 blk cow 1765 @ 78.00 1 blk cow 1160 @ 77.00 1 blk cow 1215 @ 75.50 1 red cow 1130 @ 75.00 1 wf cow 1100 @ 74.00 1 jers cow 1345 @ 73.00	1 wf cow 1010 @ 72.00 1 blk cow 1165 @ 71.00 1 blk cow 1065 @ 70.00 1 blk cow 1160 @ 69.50 1 sim cow 1000 @ 69.00 1 blk cow 1195 @ 68.50 1 wf cow 1040 @ 68.00 1 blk cow 1025 @ 67.50	BRED COWS & HEIFERS 1 blk cow @ 1110.00 1 blk hfr @ 1000.00 1 bwf hfr @ 985.00 1 bwf hfr @ 975.00 1 blk cow @ 975.00
STEER & BULL CALVES 3 blk str 458 @ 208.00 2 blk str 363 @ 205.00 2 blk str 325 @ 198.00 1 blk str 415 @ 198.00 6 blk str/bulls 418 @ 195.00 1 blk bull 385 @ 193.00 1 blk str 280 @ 189.00 1 blk bull 310 @ 189.00 1 bwf str 410 @ 180.00 1 blk str 535 @ 179.00 1 bwf str 515 @ 166.00 1 blk str 520 @ 166.00	HEIFER CALVES 4 blk hfrs 513 @ 177.00 1 blk hfr 365 @ 169.00 3 red hfrs 478 @ 164.00 3 wf hfrs 327 @ 155.00 2 wf hfrs 288 @ 154.00 1 blk hfr 540 @ 154.00 1 char hfr 405 @ 151.00 4 wf hfrs 390 @ 150.00	STOCKER & FEEDER STEERS 9 blk str 561 @ 181.50 67 blk/bwf str 778 @ 177.35 31 blk/bwf str 650 @ 175.75 3 blk str 602 @ 172.00 63 blk/bwf str 891 @ 170.00	STOCKER & FEEDER HEIFERS 4 blk hfrs 560 @ 167.00 7 blk hfrs 576 @ 165.00 6 char hfrs 556 @ 157.00 12 blk/bwf hfrs 783 @ 154.50	BULLS 1 red bull 1280 @ 96.00

WATCH OUR AUCTIONS LIVE ON DVAuctions.com

JUNE 28: SALE * NO SALE JULY 5

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

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