



## Cimarron donates trailer lease to K-State ASI animal facilities

Kansas State University Animal Sciences and Industry department is excited to announce that Cimarron Trailers has donated the lease of a 20-foot Lonestar gooseneck stock trailer to be used by the ASI campus animal units.

"We're extremely grateful for Cimarron's generosity and its support of our department," said Mike Day, KSU ASI department head. "This 'state of the art' trailer will provide an excellent option for transport of animals to and from our units for a wide variety of purposes that support teaching, research and Extension. We thank Cimarron, and especially Ben Janssen, for providing ASI with this showcase trailer."

Janssen, Cimarron Trailers president, adds, "Cimarron is excited to sponsor the KSU Animal Sciences and Industry department with the use of a Cimarron trailer. Cimarron has recently expanded our manufacturing capacity with the addition of acquiring a facility in Manhattan. We are proud to be a part of this community, and when we heard about the needs of the KSU ASI Department, it only made sense to get involved. As an employee-owned company, it has been fun to spread our Cimarron culture with new employees and have them join our team. We are looking forward to many great years ahead in Manhattan and working with KSU."

## Continuing to pave the way for corn as an industrial feedstock

At the Advanced Bio-economy Leadership Conference (ABLC) in Washington D.C., the National Corn Growers Association (NCGA) once again sponsored and facilitated the Corn-to-Chemicals Summit, outlining the uses of corn as an industrial feedstock.

The panel was moderated by Sarah McKay, NCGA market development director, and participants included Nick Lepore, morning consult senior research manager, and Denny Vennekotter, vice chair of Market Development Action Team (MDAT) and Ohio corn grower. The panel highlighted the survey results from the MDAT commissioned study on public perception of industrial biotechnology and sup-

port for a national incentive for bio-based products. Vennekotter also shared his perspective on the value and sustainability of corn as an industrial feedstock and how utilizing corn addresses key areas of importance for the public as it relates to industrial biotechnology. Further, the panel had a robust Q&A session with the audience on programs and policies, including the national incentive for bio-based materials that NCGA and BIO are currently working towards.

"U.S. corn farmers continue to produce an affordable, high-quality and reliable crop each year," said Vennekotter. "That crop can be turned into more than just food, feed and fuel. The corn

kernel can be utilized in so many ways, which is why we focus on new uses and corn as an industrial feedstock."

NCGA continues work in the new uses and industrial feedstock space through the Consider Corn Challenge and will be launching a fourth Consider Corn Challenge on April 14th. NCGA also works to accelerate new uses through a partnership with DigestData, continued conversations with government agencies like the Department of Energy's (DOE) Bioenergy Technologies Office (BETO), and expanded focus on a potential national incentive program. Learn more about NCGA's additional new uses programs and efforts at [ncca.com/newuses](http://ncca.com/newuses).

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<p><b>We had a larger run of cattle for our sale held on Friday, April 7th, with a large percentage of the offering being new crop Fall calves. Steer and heifer calves up to 600 lbs. were selling at fully steady to higher prices with a very good demand. Heavier feeder cattle were in short supply and finding very good interest. Cull cows and bulls sold fully steady to stronger on a larger offering.</b></p> <p><b>STEER CALVES — 300-550 LBS.</b></p> <table border="0" style="width: 100%; font-size: 0.8em;"> <tr><td>Westmoreland</td><td>11 blk</td><td>364@300.00</td></tr> <tr><td>Seneca</td><td>10 blk</td><td>353@288.00</td></tr> <tr><td>Allen</td><td>6 blk</td><td>431@286.00</td></tr> <tr><td>Leonardville</td><td>4 Cross</td><td>358@285.00</td></tr> <tr><td>Blue Rapids</td><td>9 Char</td><td>461@280.00</td></tr> <tr><td>Westmoreland</td><td>20 blk</td><td>442@278.00</td></tr> <tr><td>White City</td><td>11 blk</td><td>460@276.00</td></tr> <tr><td>Blue Rapids</td><td>4 Cross</td><td>378@274.00</td></tr> <tr><td>Seneca</td><td>35 blk</td><td>457@268.00</td></tr> <tr><td>Auburn</td><td>10 Cross</td><td>342@266.00</td></tr> <tr><td>Auburn</td><td>14 blk</td><td>420@263.00</td></tr> <tr><td>St. George</td><td>14 blk</td><td>481@263.00</td></tr> <tr><td>Valley Falls</td><td>4 Red Ang</td><td>472@260.00</td></tr> <tr><td>Manhattan</td><td>7 bwf</td><td>445@259.00</td></tr> <tr><td>Beattie</td><td>25 Cross</td><td>465@258.00</td></tr> <tr><td>Vasser</td><td>8 blk</td><td>482@257.00</td></tr> <tr><td>Hiawatha</td><td>6 blk</td><td>516@254.00</td></tr> <tr><td>Allen</td><td>20 blk</td><td>501@253.00</td></tr> <tr><td>Seneca</td><td>5 blk</td><td>281@252.00</td></tr> <tr><td>Holton</td><td>4 blk</td><td>453@252.00</td></tr> <tr><td>Westmoreland</td><td>26 blk</td><td>533@250.00</td></tr> <tr><td>Tonganoxie</td><td>11 blk</td><td>491@249.00</td></tr> <tr><td>Beattie</td><td>16 blk</td><td>540@245.50</td></tr> <tr><td>Berryton</td><td>5 blk</td><td>542@245.00</td></tr> <tr><td>Oskaloosa</td><td>6 blk</td><td>525@245.00</td></tr> <tr><td>White City</td><td>5 blk</td><td>486@245.00</td></tr> <tr><td>Manhattan</td><td>19 blk</td><td>542@243.00</td></tr> <tr><td>Seneca</td><td>9 blk</td><td>544@240.00</td></tr> <tr><td>Havensville</td><td>6 blk</td><td>530@238.50</td></tr> <tr><td>Effingham</td><td>6 Cross</td><td>540@237.00</td></tr> <tr><td>Manhattan</td><td>4 bwf</td><td>505@234.00</td></tr> <tr><td>Holton</td><td>5 blk</td><td>536@230.00</td></tr> <tr><td>Junction City</td><td>4 Cross</td><td>405@229.00</td></tr> </table>	Westmoreland	11 blk	364@300.00	Seneca	10 blk	353@288.00	Allen	6 blk	431@286.00	Leonardville	4 Cross	358@285.00	Blue Rapids	9 Char	461@280.00	Westmoreland	20 blk	442@278.00	White City	11 blk	460@276.00	Blue Rapids	4 Cross	378@274.00	Seneca	35 blk	457@268.00	Auburn	10 Cross	342@266.00	Auburn	14 blk	420@263.00	St. George	14 blk	481@263.00	Valley Falls	4 Red Ang	472@260.00	Manhattan	7 bwf	445@259.00	Beattie	25 Cross	465@258.00	Vasser	8 blk	482@257.00	Hiawatha	6 blk	516@254.00	Allen	20 blk	501@253.00	Seneca	5 blk	281@252.00	Holton	4 blk	453@252.00	Westmoreland	26 blk	533@250.00	Tonganoxie	11 blk	491@249.00	Beattie	16 blk	540@245.50	Berryton	5 blk	542@245.00	Oskaloosa	6 blk	525@245.00	White City	5 blk	486@245.00	Manhattan	19 blk	542@243.00	Seneca	9 blk	544@240.00	Havensville	6 blk	530@238.50	Effingham	6 Cross	540@237.00	Manhattan	4 bwf	505@234.00	Holton	5 blk	536@230.00	Junction City	4 Cross	405@229.00	<p><b>STEERS — 550-925 LBS.</b></p> <table border="0" style="width: 100%; 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Westmoreland	20 blk	442@278.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	11 blk	460@276.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	4 Cross	378@274.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	35 blk	457@268.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	10 Cross	342@266.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	14 blk	420@263.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
St. George	14 blk	481@263.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Valley Falls	4 Red Ang	472@260.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	7 bwf	445@259.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Beattie	25 Cross	465@258.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Vasser	8 blk	482@257.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Hiawatha	6 blk	516@254.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Allen	20 blk	501@253.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	5 blk	281@252.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Holton	4 blk	453@252.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	26 blk	533@250.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Tonganoxie	11 blk	491@249.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Beattie	16 blk	540@245.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Berryton	5 blk	542@245.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Oskaloosa	6 blk	525@245.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	5 blk	486@245.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	19 blk	542@243.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	9 blk	544@240.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Havensville	6 blk	530@238.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Effingham	6 Cross	540@237.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	4 bwf	505@234.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Holton	5 blk	536@230.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Junction City	4 Cross	405@229.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Abilene	7 blk	552@250.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	11 blk	637@238.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	20 Char	563@236.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
St. George	16 blk	566@236.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	4 blk	596@229.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Allen	17 blk	584@227.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Randolph	8 blk	590@223.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	36 blk	624@220.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Vasser	10 blk	591@220.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Hiawatha	9 blk	573@218.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Enterprise	5 blk	672@216.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Effingham	8 Red Ang	614@212.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	13 blk	734@210.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Randolph	8 Cross	654@207.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	5 blk	671@206.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Oskaloosa	6 blk	690@201.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	6 Char	650@200.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Berryton	5 Cross	687@192.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	7 blk	712@191.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	9 blk	916@187.25																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	9 blk	784@187.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	5 blk	246@590.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	8 blk	336@246.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
St. George	5 blk	405@246.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	43 blk	440@239.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	14 blk	381@237.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	8 blk	391@236.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	18 blk	514@234.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
St. George	23 blk	527@233.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Oskaloosa	8 blk	502@233.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Havensville	15 blk	517@232.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Beattie	93 Cross	495@231.25																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	13 Cross	492@231.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Havensville	4 blk	500@230.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Berryton	6 blk	535@229.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	6	320@228.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Effingham	9 Red Ang	497@227.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	9 blk	461@227.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Wetmore	16 blk	387@225.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Vasser	4 blk	452@224.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Wetmore	16 blk	487@221.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Wetmore	6 blk	304@220.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	10 blk	458@220.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	7 blk	427@218.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	4 blk	545@218.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Beattie	8 blk	413@216.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	4 blk	546@212.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	11 blk	358@212.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	15 Char	554@228.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Frankfort	10 blk	597@224.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	31 blk	571@221.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Havensville	24 blk	638@210.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Effingham	7 Red Ang	576@209.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Blue Rapids	7 Char	615@207.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Wheaton	5 blk	575@205.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	8 blk	649@204.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	7 blk	697@187.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Havensville	9 blk	691@187.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	7 blk	752@182.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	7 blk	752@182.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	6 blk	607@180.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Vasser	4 blk	616@180.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Horton	9 blk	817@176.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	15 blk	856@170.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Junction City	2 blk	735@176.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Junction City	1 blk	910@171.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Junction City	2 Cross	972@163.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Junction City	1 blk	940@156.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	1 blk	1050@152.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Basehor	1 blk	1290@145.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Dwight	1 blk	1295@109.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	1 blk	1255@103.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Westmoreland	1 blk	1750@102.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	1 blk	1640@101.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Randolph	2 blk	1320@100.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Auburn	1 blk	1815@99.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Frankfort	1 blk	1680@98.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Frankfort	1 blk	2155@97.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Frankfort	1 blk	1740@96.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Dwight	1 blk	1465@95.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
White City	1 blk	1800@90.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Manhattan	1 blk	1125@89.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Seneca	1 blk	1155@88.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Dwight	1 blk	1065@88.00																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Onaga	1 blk	1160@87.50																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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**SPECIAL STOCK COW & BRED HEIFER SALE**

**WED., APRIL 12 • STARTING 11:00 AM**

- 260 Choice reputation Angus, Red Angus & BWF 1st calf hfrs with 30-60 day old calves.
- 22 Angus & Red Angus fall bred hfrs AI bred for late Aug calving
- 200 Blk BWF & Red Angus Mature Cows (3 to 8 yrs) with 30-75 day old calves by side.
- 410 Choice Blk, BWF, & Red Angus Fall bred cows (3 to 7 yrs)
- 90 Fancy Red Angus cows (3 to 5 yrs) bred to Pieper Red Angus bulls for late Aug calving
- 70 Angus (OCV) replacement hfrs 700-800#
- 26 Angus, Char, Blk Sim, & Balancer bulls (15 to 24 mo)

For more info, call John E Cline 785-532-8381 or check website at [MCCLIVESTOCK.COM](http://MCCLIVESTOCK.COM)

EARLY CONSIGNMENTS FOR APRIL 14:

- 39 blk str & hfrs, 2 rds Vira Shield & Black Leg, weaned 30 days. 500-600#
- 14 Polled Herf hfrs, 2 rds Vira Shield 6, Blk Leg, Pinkeye, Bunk broke, no implants, 450-525#
- 20 Choice reputation, (OCV) Herf replacement hfrs, checked breedable, 700-850#
- 40 Blk & Red hfrs, long weaned, 2 rd shots, green, no implants, 525-625#
- 20 Blk & Red str, long weaned, 2 rd shots, green, no implants, 600-650#
- 80 Choice reputation Blk BWF str & replacement quality hfrs, 550-700#
- 25 Charolais str, 1 complete rd shots, 400-450#
- Blk bwf cows, SS-BB, with 200# calves by side, calves worked.
- 85 crossbred str & hfrs, 1 rd shots, weaned 45 days, 400-500#
- 35 reputation Angus str & hfrs, 2 complete rd shots, weaned 45 days, 450-600#

EARLY CONSIGNMENTS FOR APRIL 21

SELLING AT 11:30 A.M.

- 30 blk cows, 5+ yrs, with late Feb. and March blk calves by side. Calves all worked.
- Complete Dispersal: 28 Angus cows, running ages w/ Oct.-March Angus calves.
- 40 big fancy gentle bwf (34) and blk (6) 1st calf hfrs w/ Laffin Angus sired late Jan.-Feb. calves by side.
- 65 choice blk bwf & Red str & hfrs, 1 rd shots, 400-550#

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2023: April 12; May 3

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# The five-point check for sheep and goats

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

The weather has warmed up; hopefully, we will get a couple of good rain showers in southeast Kansas. Warm weather and (hopefully) rain make the perfect combination for parasites to grow and thrive. This can make spring and summer a more challenging time for goat and sheep producers to control internal parasites in their herds. As we start to wean spring kids and lambs it is a good oppor-

tunity to take a closer look at them and their mothers and treat any that show signs of internal parasites.

When treating sheep and goats for internal parasites it is recommended to only treat animals that are showing signs of internal parasites to help slow down parasites building resistance to dewormers. A common method of determining if small ruminants need to be dewormed is using the five point check in combination with FAMACHA scoring. FAMACHA scoring is a system that looks for

signs of barber pole worms by looking at the color of the lower, inner eyelid and grading this color on a scale of one to five with one being ideal (eyelid color is red) and five being severe (eyelid color is white). If the animal has a FAMACHA score of four or above (eyelid color is light pink to white), it must be treated for barber pole worms. The five-point check method includes evaluating the five areas listed below.

Jaw – “Bottle jaw” is a symptom of barber pole worms. Not to be confused with a milk goiter, the bot-

tle jaw is a buildup of fluid right under the jaw. Small ruminants that have bottle jaws should always be dewormed.

Back – Goats and sheep that have a body condition score of two or less should be dewormed, especially if they have lost weight or the color of their eyelid is light pink or white. Body condition is a scoring system that evaluates the amount of fat covered over the back, between the back of the rib change and hips. It is scored on a scale of one to four, with one being skinny and four

being obese.

Hair Coat – If sheep are losing wool or goats have coarse, dull hair coat these can be signs of internal parasites inhibiting nutrient absorption.

Tail – Look at the tail to see if the animal has or has recently had diarrhea. Many parasites can cause diarrhea.

Nose – A snotty nose can be a sign of nasal bots. Nasal bots are caused by a fly that lays eggs in the nasal passage.

Only small ruminants that show signs of internal parasites by FAMACHA

score and the five point check should be treated for internal parasites. Different classes of dewormers treat different parasites, so be sure to use a dewormer that is labeled to treat the type(s) of parasite the animal is showing signs of having. To effectively treat animals and help slow parasite resistance, follow the dosage instructions on the label.

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

# U.S. farmers to plant more corn and soybeans

Producers surveyed across the United States intend to plant 92.0 million acres of corn in 2023, up 4% from last year, according to the Prospective Plantings report released by USDA's National Agri-

cultural Statistics Service (NASS).

Planted acreage intentions for corn are up or unchanged in 40 of the 48 estimating states. The largest increase is expected in North Dakota, where

producers intend to plant 800,000 more acres than in 2022. If realized, the planted area of corn in Arizona and Idaho will be the largest on record.

Soybean growers intend to plant 87.5 million

acres in 2023, up slightly from last year. Acreage increases from last year of 100,000 or more are expected in Minnesota, North Dakota, South Dakota, and Wisconsin. Record high acreage is expected in Illinois, Nebraska, New York, Ohio, and Wisconsin.

The Prospective Plantings report provides the first official, survey-based estimates of U.S. farmers' 2023 planting intentions. NASS's acreage estimates are based on surveys conducted during the first two weeks of March from a sample of nearly 73,000 farm operators across the nation. Other key findings in the report are:

- All wheat planted area for 2023 is estimated at 49.9 million acres, up 9% from 2022.

- Winter wheat planted area, at 37.5 million acres, is up 2% from the previous estimate and up 13% from last year.

- Area planted to other spring wheat for 2023 is expected to total 10.6 million acres, down 2% from 2022.

- Durum wheat is expected to total 1.78 million acres for 2023, up 9% from last year.

- All cotton planted area for 2023 is expected to total 11.3 million acres, 18% below last year.

NASS also released the quarterly Grain Stocks report to provide estimates of on-farm and off-farm stocks as of March 1. Key findings in that report include:

- Corn stocks totaled 7.40 billion bushels, down 5% from the same time last

year. On-farm corn stocks were up 1% from a year ago, while off-farm stocks were down 10%.

- Soybeans stored totaled 1.69 billion bushels, down 13% from March 1, 2022. On-farm soybean stocks were down slightly from a year ago, while off-farm stocks were down 21%.

- All wheat stored totaled 946 million bushels, down 8% from a year ago. On-farm all wheat stocks went up 30% from last year, while off-farm stocks went down 16%.

- Durum wheat stored totaled 35.8 million bushels, up 18% from March 1, 2022. On-farm Durum stocks were up 36% from a year ago, while off-farm stocks of Durum wheat were up 6%.

## AUCTION

SATURDAY, APRIL 22, 2023 — 9:30 AM

Auction held at the Potawatomi Nation Community Building, 708 Citizen Cr., ROSSVILLE, KS

INDIAN COLLECTIBLES, TOOLS, TOYS

Pennsylvania Indian peace medal 1751; 1797 Peace & Friendship medal; George Washington shaking hand w/ Indians metal; Trade beads (clay, coral, glass, stone, sand beads); Manhattan Indian trade beads; Indian beaded sashes; trade axes; trade banner stone; Indian Spud; granite Michigan barbed axe; granite double fluted axe; pipe bag; quiver & 18 arrows; tomahawk; custom knife; Robert Griffing "Last of the Mohicans" pictures; Jim Yellow Hawk picture; Roy Ker-swilw Indian Chief picture; Indian pots; handmade bird pipe; Clayton teepee painting; 1890 fish knife; carved turtle pipe; Indian axe; celt hide scraper; custom peace pipe; old arrows; custom built spear; buffalo skull; teepee paintings; hand carved teepee (like the one in Russian World Fair); Kachina dolls; Indian statues; sea shell deer picture; several Indian

prints; 3'x8' Indian rug; powder flask; Old Abye picture; Electric City single shot 12 ga; 1970s 50 cal pistol; Western pictures; RH Macy brown top jug; Hayner jug; Pikes Peak flask; 2" jug & mustard jar; other mini jugs; Jars: (large collection inc: brown & blue Lighting; Millville wax seal; 1822 Mason w/line; Mason from Coffeyville, Ks.; Crown w/lid; Root Mason; wax sealer jar; many very good jars); large collection of advertising bottles many rare; large collection of silhouette pictures several ladies in color; kerosene lamps; Rayo lamp w/ shade; china hands; Hamm's picture; records inc: Grease, Saturday Night Fever, Elvis; child's skis; Crystal wall coffee grinder; 3 Topeka bridge lights; Calvary horse stakes; cradle scythe; double blade walking plow; horse cultivator; forge tools; broad axes; traps; hide stretchers; scales; 500 wrenches; fence stretchers; many cowboy items; walking plows;

covered wagon bar scale; ox yoke; barb wire collection; lighting rod balls blue & purple; forge; Dempster Mill No 1 KC wooden pump; coaster wagon; fish decoys, fish creel; fishing poles; fish mounts; skulls; deer mount; Don't Spit On Sidewalk brick; sad iron heater; wheel measure; pulleys; dippers; scythes; coal shovels; bellows; kitchen items; hay knives; drawing knives; drills; hatchets; carpenters tools; hammers; cast iron spittoon; egg basket; rosettes; horse bits; rail road oil can; lanterns; granite coffee pots; miners lights; cream cans; insulators; iron wheels; jacks; 1/16 toy tractors; many Precision; Arcade cast iron spreader & plow; toy steam engines; many John Deere tractors & implements; AC tractors; 150 Hot Wheels & Match Box toys; newer tractor collectible signs; large collection of other collectibles.

COVERED WAGON GOOD CONDITION.

NOTE: The Newell's started collecting in 1960 & have many unique items. The Indian collection is very good, there are many tools & a very large collection of tractors, along with many collectibles. The jar & bottle collection is very good. Check website for pictures [www.thummelauction.com](http://www.thummelauction.com)

RICHARD & BEVERLY NEWELL

Auction Conducted By: THUMMEL REAL ESTATE & AUCTION LLC, 785-738-0067

## \*ESTATE AUCTION\*

SATURDAY, APRIL 15, 2023 — 10:00 AM

5946 NE Shaffer Road — TOPEKA, KANSAS

FARM & YARD ITEMS: Husqvarna M-2T52 zero turn mower; Coleman Versa pop-up camper; MHF Massey Harris Ferguson tractor (as is); Nice Cargo Master box trailer; Big Ox box grader; (2) flatbed trailers; brush hog; boats; lots of farm miscellaneous; Electronics; test equipment; ham radio items; furniture; household appliances; Collectibles; craft items & MORE!

LARGE AUCTION! May run 2 rings. Concessions CHARLIE & JUDY HOLMES ESTATE

See website for list & pictures: [whunterauctions.com/ac.htm](http://whunterauctions.com/ac.htm)

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## UPCOMING SPECIAL ISSUES

Ag Tech - April 18<sup>th</sup>

Cattle Empire - May 23<sup>rd</sup>

Wheat Harvest, 4-week series - starts June 6<sup>th</sup>

County Fair - July 4<sup>th</sup>

Ag Finance - August 8<sup>th</sup>

KS State Fair Issue (BOGO Half Price) - August 29<sup>th</sup>

Fall Harvest (4 week series) - starts September

Fall Full of Bullz - September 12<sup>th</sup>

G&G Farm Show Edition - October 31<sup>st</sup>

Soil Health - November 7<sup>th</sup>

### DEADLINES:

Ag Tech - April 12<sup>th</sup>, before Noon

Cattle Empire - May 17<sup>th</sup>, before Noon

Wheat Harvest - May 31<sup>st</sup>, before Noon

County Fair - June 28<sup>th</sup>, before Noon

Ag Finance - August 8<sup>th</sup>, before Noon

KS State Fair Issue - August 23<sup>rd</sup>, before Noon

Fall Harvest - August 30<sup>th</sup>, before Noon

Fall Full of Bullz - September 6<sup>th</sup>, before Noon

G&G Farm Show Edition - October 25<sup>th</sup>, before Noon

Soil Health - November 1<sup>st</sup>, before Noon

To advertise in these or future special issues, contact your GRASS & GRAIN sales rep:



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ONLINE BIDDING OPENS: Thursday, April 13, 8:00 a.m.

with SOFT CLOSE Wednesday, April 19, 8:00 p.m.

Pickup is 12:30-6:30 p.m. Friday, April 21 in Hutchinson, KS BY APPOINTMENT ONLY! Shipping available on items so marked.



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# Kansas Hay Market Report

Compared to the last report demand remains good, prices remained steady, trade activity remains slow. Drought continues to be the main topic on everyone's mind these days, especially for those in central and southwest Kansas. Winter wheat did not come up across much of that area and significant precipitation is needed over the next few weeks. Drought is also impacting groundwater levels across south central and western Kansas. According to NIDIS, the groundwater level fell by nearly three feet near Garden City, Liberal, and Ulysses in January alone. And if that weren't enough bad news, a state declaration of disaster was issued by the governor due to high wildland fire danger. On a positive note, drought has improved across northeastern Kansas. According to the U.S. Drought Monitor for March 28th, the categorical percent area for drought conditions remained the same. Abnormally dry conditions (D0) remained near 9%, moderate drought (D1) remained near 9.5%, severe drought (D2) remained near 13%, extreme drought (D3) remained near 16%, and exceptional drought (D4) remained near 36%.

## Southwest Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered steady, movement slow. Alfalfa: horse, supreme small squares 12.00-14.00/bale. Dairy, 1.40-1.50/point RFV. Good, Stock or Dry Cow 300.00-315.00. Grinding alfalfa, large rounds, 290.00-300.00, large square 3x4's and 4x4's 300.00-310.00. Ground and delivered locally to feed lots and dairies 340.00-350.00. Alfalfa/grass hay mix ground and delivered 300.00-320.00; Grass Hay: Bluestem: 150.00-160.00. Corn stalks: none reported. The week of 3/26-4/01, 4,513T of grinding alfalfa and 625T of

dairy alfalfa was reported bought or sold.

## South Central Kansas

Dairy alfalfa, grinding alfalfa, ground and delivered, and alfalfa pellets steady, movement slow. Alfalfa: horse, small squares 325.00/ton. Dairy 1.40-1.50/point RFV. Good, Stock cow, 295.00-305.00. Fair/good grinding alfalfa, large rounds 290.00-300.00 delivered, 3x4 and 4x4's 315.00-325.00 delivered. Alfalfa ground and delivered 315.00-325.00; Alfalfa/Soybean: ground and delivered 300.00-315.00. Alfalfa pellets: Sun cured 15 pct protein 325.00-335.00, 17 pct protein 345.00-350.00, Dehydrated 17 pct 395.00-400.00. Grass Hay: Bluestem, large rounds none reported. Sudan: large round 125.00-130.00. Corn stalks: large rounds 110.00-120.00. The week of 3/26-4/01, 6,952T of grinding alfalfa and 12.5T of dairy alfalfa was reported bought or sold.

## Southeast Kansas

Dairy alfalfa, grinding alfalfa, grass hay steady, movement slow. Alfalfa: horse or goat, none reported. Dairy 1.40-1.50/point RFV. Good, stock cow 260.00-270.00. Fair/good grinding alfalfa, large rounds none reported, large square 3x4 260.00-270.00; Grass hay: Bluestem, small squares 160.00-165.00, good 3x4 squares 160.00-170.00, large round 135.00-145.00.

Brome, large rounds 135.00-145.00. Corn stalks: large round 120.00-130.00 delivered. The week of 3/26-4/01, 1,344T of grass hay was reported bought or sold.

## Northwest Kansas

Dairy alfalfa and grinding alfalfa steady, movement slow. Alfalfa: Horse or goat, small squares 345.00-355.00 delivered, 3x3 squares 305.00-320.00 delivered. Dairy, Premium/Supreme 1.40-1.50/point RFV. Stock cow, fair/good none reported. Fair/good grinding alfalfa, large square 3x4's 300.00-315.00. Milo stalks, large rounds 145.00-150.00.

## North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered and bluestem grass hay steady, movement slow. Alfalfa:

# Bull breeding soundness exam important ahead of breeding season

By Ross Mosteller, Meadowlark District Extension agent, livestock and natural resources

Six are tested, one gets the opportunity to try again and another one fails. I'm not talking about high school geometry, although that could have a familiar ring for some, but rather herd bull breeding soundness exams. As the breeding season approaches, one of the most important decisions a cow/calf producer can make is deciding to have the herd bull battery fertility tested before the start of the breeding season.

There are a few basics that breeding herd managers should keep in mind about the bull before turning out with cows, they include passing a breeding soundness exam, maintaining appropriate body condition, and good physical shape. Remember that just because the bull has tested satisfactory in the past, he should not be considered sound year after year. This is a very economical expense, compared to the problems that can come from missed conception.

The importance of the bull in a cattle breeding program often is underestimated. A cow is responsible for half the genetic

material in only one calf each year, while the bull is responsible for half the genetic material in 20 to 50 calves. The bull's ability to locate cows in estrus and breed them is vital to reproductive success. An unsound or unfertile bull going into the breeding pasture undetected can cause economic hardship down the road due to open or late calving cows.

Breeding soundness exams can be done by your local veterinarian and should be performed 30 to 60 days before the bull is exposed to females. This is important to allow sufficient time to replace questionable bulls. These exams will typically include a physical examination of feet, legs, body condition, eyes and teeth, external exam of reproductive organs, scrotal circumference measurement (which correlates to daily sperm production and reproductive maturity), and proper semen evaluation for concentration, motility, and morphology.

The general health of the bull is critical since sick, aged and injured bulls are less likely to mate and usually have lower semen quality. It can be important to check the hooves of animals and take the proper measures to trim them. Sound feet

and legs are very important because if found unsound, this can result in the inability to travel and mount for mating. Don't forget that it could take some time, three to six weeks, to fully recover from a trimming.

Make sure that a proper health program is followed with bulls, the same is true for the entire herd. Some of the key items are immunization and parasite control, but a complete health program should be discussed with your veterinarian. Hand in hand with health is nutrition. Body condition can be affected by length of the breeding season, grazing and supplemental feedings, number of cows expected to be serviced and distance required to travel. Ideally, bulls should have enough fat cover at the start of breeding so their ribs appear smooth across their sides, this would be a target body condition score of 6.

Any bull meeting all minimum standards for the physical exam will be classed as a "satisfactory" potential breeder. Bulls that fail any minimum standard will be given a rating of "classification deferred." This rating indicates that the bull will need another test to confirm status. Mature bulls

should be retested after six weeks, and will be classified as unsatisfactory potential breeders if they fail subsequent tests. Young bulls that are just reaching puberty may be rated as "classification deferred", and then later meet all of the minimum standards. Therefore, caution should be exercised when culling based on just one breeding soundness exam.

Good producers work hard to manage their cows for high fertility, many may assume that the bulls will do their expected duties. However, it's important to pay close attention to bulls to establish successful breeding. I encourage everyone to evaluate your herd bull management program, and establish management plans to assure a successful outcome this breeding season.

Dairy 1.40-1.50/point RFV; Horse hay, premium small squares, 12.50-13.50/bale, 3x4's 290.00-300.00; Stock Cow 3x4's 230.00-240.00. Fair/good, grinding alfalfa, large rounds 235.00-245.00, large square 3x4's 260.00-270.00 delivered; Alfalfa ground and delivered 275.00-300.00; Alfalfa/Prairie grass mix ground and delivered 270.00-275.00. Grass hay: Bluestem, small squares 8.00-8.50/bale, large 3x4 squares 150.00-160.00, good large rounds 150.00-160.00. Brome: small squares 9.00-9.50/bale, large square 3x4's, none reported, large rounds 130.00-150.00. Sudan: large square 3x4's 130.00-140.00 delivered. Wheat straw: small squares 6.00/bale, large rounds 110.00-115.00, large squares 115.00-125.00. Corn stalks: large rounds 95.00-100.00. The week of 3/26-4/01, 880T of grinding alfalfa and 855T 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

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

**1,200+/- ACRES CROPLAND, GRASS, CRP & PRODUCING MINERALS LAND AUCTION**

**RUSSELL COUNTY, KS**

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---	---------------------------------

**LEGAL DESCRIPTIONS:**

TR 1: S/2 of Sec 19-14-13 - 124.87 ac crop, 105.84± ac grass & 69.47 ac CRP  
 TR 2: E/2NW/4 and NE/4 of Sec 30-14-13 - 130.40 ac crop & 95.68± ac grass  
 TR 3: SW/4 & S.65ANW/4 of Sec 29-14-13; N/2NW/4; S/2NW/4 & SW/4 of Sec 32-14-13 - 345.71 ac cropland & 191.26± ac grass  
 TR 4: S/2SE/4 of Sec 32-14-13 - 19.17 ac crop & 59.38± ac grass  
 TR 5: Tr of approx .78 acres in NE/4SE/4 of Sec 8-14-13 w/bldg  
 TR 6: 1/3± of producing minerals on Tracts 3 & 4.

**TRACTS 1-4:** Surface rights only  
**TRACT 5:** 1/3± of Seller's interest in mineral rights and production on Tracts 3 and 4 will sell as Tract 6.  
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**64th District Rep. Bloom shares March legislative activities**

Week of March 20-24, 2023 Bills worked this week include:

HC 5008 - Convention of States bill - even though it passed by the majority, it had to have a 2/3 majority vote, so it failed. (74 years, 48 days)

HB 2313 - Born Alive Infants Act - if an infant is born alive after an abortion, the medical staff must help it survive. (88 years, 34 days)

House Sub for SB 13 - establishing the mental health intervention team program, allowing local school board members to receive compensation from school district, continuing the 20 mil state-wide levy and the amount of increasing increases. (75 years, 48 days)

HB 2436 - The ESG bill, environmental, social, and governance. (85 years, 38 days)

On ESG, investors seek to ensure the companies they fund are responsible stewards of the environment, good corporate citizens, and led by accountable managers. Someone, mainly those running huge banks, will decide if they will invest in you, based on what they decide your score is. Companies that operate in high-risk areas, or have exposure to coal, tobacco, or weapons and firearms, hard rock mining, nuclear or coal power, private prisons, and agriculture bio-technology, also companies involved in recent controversies over human rights, animal welfare, environmental concerns, governance issue or product safety will be penalized. Basically, they will tell you how you will operate your business. You will have no say in the score they give you. We voted NOT to let them do that in Kansas.

House Sub for SB 208 - Enforce Campaign Finance Act - (119 years, 3 days)

SB 15 - Enforcing Insurance Laws of Agents not paying premiums that were paid to them. (104 years, 18 days)

SB 18 - Requiring there be penalties for violations of the insurance law. (104 years, 18 days)

SB 28 - Stopping payments for certain insurance pools. (106 years, 16 days)

SB 106 - Prohibiting the manufacturing of defective air bags- this is aimed at foreign manufactures mainly. (99 years, 23 days)

Week of March 27-31 2023 A group of us have been getting together almost every night to go over bills coming up in the next few days. Sunday night we had 31 to go over, trying to get all bills done by week's end.

Monday, I spoke with the Riley County sheriff and county attorney about robberies in northern and western Riley County. We will try to find out what more can be done, as this seems to be happening everywhere. Session ended at 3:30 PM and then there were more bills to study. We discussed getting extra funds for nursing homes as some are going to go out of business if the state doesn't help. We also talked extra money for Meals on Wheels and small business development.

On the budget, we will end 2023 with 1.9 billion surplus, 2024 with 2.5 billion surplus, 1.5 billion in rainy day fund. We put in an amendment to hold employee level at 2023 number of personnel and to provide more transparency in grant money. Kansas is #2 in the nation for state employees per capita. Our projected budget is \$150 million less than what the governor recommended.

On Tuesday, we started session at 8:00 a.m., and by 3:30 p.m., we had only worked four bills, and

had 17 more to go. There seemed to be a lot of disagreement. We got done with the day at 11:15 p.m. and were ready to get out of there.

On Wednesday, we passed 20 bills, including budget and tax bills. I will not list them all. You can go to www.kslegislature.gov and look any of them up. If you go to your app store on your phone and download KSChamber, it is an app that tells you about all the legislators, bills, etc. This is really helpful. The icon for this app looks like a Blue Star shooting an arrow.

Some of the more interesting ones were:

SB 3 - Designating Silvisaurus Condrayi as the official state land fossil. (119 years, 4 days)

SB 85 - Enacting Kansas Travel Insurance Act. (103 years, 20 days)

SB 116 - Size of samples of wine, beer and whiskey that can be given out. (102 years, 21 days)

SB 189 - Allowing local law enforcement agencies to trade information about a future employee's application. (123 years, 0 days)

SB 66 - Enacting the teacher mobility compact to recognize equivalent teacher's licenses across member states. (103 years, 20 days)

SB 114 - Definition for advanced recycling. (101 years, 22 days)

SB 194 - To be on the hospital board from a neighboring county, they must own land in it, if they don't live in that county. (50 years, 73 days) Failed

SB 243 - Providing requirements and procedures for settlement agreements involving a minor. (123 yes, 0 days)

Some additional information:

There are 4000 wind generators in Kansas; another 6000 planned. If you are a property owner that is considering leasing, be careful when you sign contracts, as there are already problems.

If you want to go to www.countyhealthranking.org, you will see how your county ranks with the other 105 counties in Kansas.

On SB 34 - Expanding rural housing funding. The rural representatives found out it was going mainly to towns of 60,000-plus. We complained, so they dropped it.

On the flat tax, if you're not a CPA, be prepared to spend a lot of time on it. Basically, the poorest and richest will get the biggest break, the middle class the least. It still helps everyone. Maybe? It seems to be the best of the choices to reduce the tax burdens on Kansans. It creates one single rate of 5.25%, increases deductions, and taxes on Social Security income will phase out in 4 years. Instead of being fully taxed after \$75,000, it will gradually go up to \$100,000 (just for 4 years) and then the tax on social security will be dropped.

Food sales tax is over July 2023! This does not affect your local sales taxes, which the counties use for roads, bridges, etc. I hate to say this about a tax, but we need this one. SNAP will mirror the food tax.

Home owner's property tax: Raises house deduction from \$40,000 to \$60,000. Decreases the property tax 436 million in 2024, 415 million in 2025 and 422 million in 2026. There is no relief for farmland that I could find. It comes to basically \$60 a household. Loss of money made up from the general fund.

Your personal deductions will go up to \$6,150 for single and \$12,500 for married couple.

E-mail, call or come see me anytime. It's been a busy week, but I'm always happy to hear from constituents.

64th House District Representative Lewis Bloom

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# Registration open for Cattlemen's Conference: Blueprint for the Future

Thirty-five years ago, cattle industry leaders gathered at the Blueprint for the Right Kind type conference. This spring, the event will be reprised as Cattlemen's Conference: Blueprint for the Future, presented by Cattlemen's Congress, Oklahoma State University and the Noble Research

Institute. The event will be held May 24-25 on the Oklahoma State University campus.

"Cattlemen's Conference will be a must-attend event for anyone interested in building the right kind of cattle, not just for today, but for the future," said Jarold Calahan, chairman of Cat-

tlemen's Congress. "The event in the 1980s focused on building cattle that fit the industry at that given time. Today, the industry has evolved and therefore, our cattle and management need to do the same."

The two-day conference will feature renowned speakers from

each segment of the industry, covering topics including genetic prediction, pasture and soil health, trends in beef production, and showing and marketing ethics, and more.

Highlighting the event is a keynote address by Frank Mitloehner, professor and air quality

specialist in cooperative extension in the Department of Animal Science at University of California-Davis. Dubbed "The Greenhouse Gas Guru," Mitloehner is well-known for his research-backed stance that eating meat and taking care of the planet are not mutually exclusive.

Early registration, which is open through May 5, costs \$200 and includes all sessions, meals, breaks and asocial hour. Onsite registration will be available for \$250.

For a complete schedule, or to register, visit [cattlemenscongress.com/](http://cattlemenscongress.com/) conference.

# Tips for caring for the heifers at calving

By Lisa Moser, K-State

Research and Extension news service

When starting a family, first-time mothers tend to experience longer labors than those who've given birth before. In much the same way, heifers need to be managed differently than cows at calving time, said the experts at the Kansas State University Beef Cattle Institute speaking on a recent Cattle Chat podcast.

"Heifers have to be monitored more closely at calving than cows do," said Bob Larson, veterinarian.

He explained that heifers are typically only 80% of their full skeletal size when they have their first calf.

"Because heifers haven't reached their full skeletal size, there just isn't as much room in the pelvis for the calf to come through during the birth process," Larson said.

Nutrition plays a key role in helping the heifers grow to their full mature size and in assuring that the developing calf gets what it needs to thrive, said the experts.

"Ideally the heifers and cows need to be calving at a body condition score of six," Larson said.

And with heifers, the ration needs to be closely evaluated to make sure that they are getting the energy and protein requirements needed to grow their bodies, said Phillip Lancaster, beef cattle nutritionist.

"Regardless of whether it is a cow or a heifer, it is important that her nutritional needs are being met to avoid negative long-term impacts for her or her calf," Lancaster said.

Larson agreed and added that females in a negative energy balance can experience uterine inertia.

"Uterine inertia is when the smooth muscle in the

uterus is not able to really contract to push that calf out, so if cows are depleted of their energy reserves the muscles become fatigued faster," Larson said.

When it comes to calving, heifers tend to experience a longer first stage of labor - which involves contractions that push the calf into the birth canal - compared to cows, said Larson.

"However, once the water breaks, heifers and cows should be making noticeable progress every 15 minutes. If that isn't happening, the producer or veterinarian needs to assess the situation and be ready to assist if needed," Larson said.

To hear the full discussion, listen to the Cattle Chat podcast online or through your preferred streaming platform.

# House members reintroduce Next Generation Fuels Act

The Next Generation Fuels Act was reintroduced in the U.S. House of Representatives recently. The National Corn Growers Association applauded the development, saying the legislation would help address the country's most pressing energy issues through a transition to cleaner fuels and vehicles.

Rep. Mariannette Miller-Meeks (R-Iowa) led the bipartisan reintroduction of the bill along with Reps. Angie Craig (D-Minn.), Darin LaHood (R-Ill.) and Nikki Budzinski (D-Ill.).

"We're very grateful to Rep. Miller-Meeks, along with Reps. Craig, LaHood and Budzinski for taking the lead on this priority legislation for corn growers," said NCGA president Tom Haag. "Advancing the Next Generation Fuels Act is timely for Congress's work on energy and environmental issues, offering solutions that lower fuel costs, reduce emissions and help shore up America's energy security for the long run."

The Next Generation Fuels Act would clean up the nation's fuel supply and transition new vehicles to use cleaner, more efficient fuels that also lower costs for drivers. By establishing a clean, high-octane standard for fuel and requiring that sources of additional octane result in at least 40% fewer greenhouse gas emissions, the legisla-

tion would allow automakers to significantly improve vehicle fuel efficiency through advanced engines.

The legislation builds the nation's clean energy progress by advancing higher ethanol blends and new vehicles that work together to deliver greater emission reductions, cost savings and consumer choice.

As NCGA has called on the Biden administration to act to prevent a disruption in access to higher blends of ethanol this summer, the Next Generation Fuels Act would also permanently remove regulatory barriers, allowing for higher ethanol blends and advanced vehicles that maintain a wider range of competitive fuel and vehicle choices.

In addition to the four lead House sponsors, Reps. Don Bacon (R-Neb.), Mike Bost (R-Ill.), André Carson (D-Ind.), Emanuel Cleaver (D-Mo.), James Comer (R-Ky.), Randy Feenstra (R-Iowa), Brad Finstad (R-Minn.), Mike Flood (R-Neb.), Ashley Hinson (R-Iowa), Marcy Kaptur (D-Ohio), Dan Kildee (D-Mich.), Mike Lawler (R-N.Y.), Mary Miller (R-Ill.), Zach Nunn (R-Iowa), Elissa Slotkin (D-Mich.) and Eric Sorenson (D-Ill.) also joined the legislation as original cosponsors.

A companion bill was introduced in the Senate.

# Woiwode explains benefits of standardized cattle-handling training

America's cattle sector could benefit greatly by adopting a set standard for proficiency levels in animal care and handling. University of Nebraska-Lincoln scientist Ruth Woiwode, drawing on her expertise in animal behavior, is working to address that challenge.

Woiwode, assistant professor of animal behavior and welfare in the Department of Animal Science, has developed a multi-step approach to teaching cattle handling techniques based on key findings regarding animal behavior. She demonstrated those techniques during a recent gathering of 4-H educators for a two-day set of sessions at Nebraska's Animal Science Complex.

Brett Kreifels, a 4-H educator for Douglas and Sarpy counties, said his background is in poultry rather than cattle, but he was impressed "to see how she was able to take those cattle and move them exactly where she wanted

them and did it very effortlessly."

Among those who observed her demonstration was Temple Grandin, a Colorado State University professor and noted expert in animal behavior. Grandin was Woiwode's academic adviser during Woiwode's graduate study at Colorado State. Woiwode's cattle-handling techniques draw in large part on insights Grandin has provided during her decades-long study of animal behavior.

In watching Woiwode's demonstration, Grandin noted that the Husker scientist's techniques had kept the cattle calm while directing them from one gate to another and, in one instance, separating one calf from the rest.

Afterward, 4-H educators said such training, perhaps via video, could have great value in helping children learn effective animal-handling techniques.

One task in Woiwode's

cattle-handling approach involves moving a group of cattle through a gate and closing it, then moving the cattle in a straight line and stopping them at a designated point. Mistakes to be avoided include moving the cattle too fast, causing them to run; scattering the cattle; and cattle running into fences.

In her writings about the training approach, Woiwode has noted the principle that the cattle industry "cannot manage its quality problems until it can measure them." That principle has served as a central guide for the Beef Quality Assurance program.

Training in husbandry and stockmanship skills traditionally has been passed down from generation to generation, but in

modern times, many prospective employees are entering the cattle sector without that background. A standardized approach can provide certainty in training and facilitate efficiency in workforce development.

Such an approach also can build trust with the public, given the public's increased interest in animal welfare. Another benefit is improved long-term impact on animals, since academic study has shown that handling, positive or negative, can have a cumulative long-term effect on an animal.

Woiwode, with faculty positions in teaching, research and Extension, holds certifications for dairy, swine, poultry, meat plant and feedlot animal welfare auditing. Prior to

joining Nebraska, she led a team in auditing entire supply chains. She serves on the Animal Welfare Committee and Small Plant Task Force for the North American Meat

Institute, the Nebraska Feedyard Safety Advisory Committee, and the Faculty Advisory Committee for Nebraska's Beef Innovation Hub.

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# Plan to eliminate brush piles safely this spring

By Wendie Powell, Livestock production agent, Wildcat Extension District

Late March into April is the prime time of year to manage native pastures with prescribed fire. This is also the time of year that we can think about managing brush piles in pastures. Incorporating the brush pile into a prescribed burn is one management option that requires pre-planning. The piles can also be dealt

with alone.

Safety should be top of mind. Aim for the season when surrounding vegetation is actively growing, with high moisture content. This can vary based on the pasture forage type. Be cautious if there is still vegetation left from last season around the pile; the green stuff can still burn, so always monitor the pile during the burn and have adequate suppression equipment avail-

able.

Brush piles should be burned when wind speeds are less than fifteen miles an hour and not gusty. Wind direction should be considered, to move the smoke away from main roads or homes. Relative humidity greater than forty percent can reduce the chances of embers igniting spot fires downwind. Brush piles can smolder for days, even weeks. Therefore, after se-

lecting the day of the burn, check the weather for the next three days, especially when those brush piles have lots of tree trunks or large amounts of soil were pushed in.

Brush piles can often be burned on a day when relative humidity is high or even when it is raining if the larger fuels have been dry for an extended period of time. Understanding this relationship between relative humidity and fuel moisture is important to minimize the risk of escape when burning a brush pile.

Ignite brush piles carefully using a drip torch, road flare, propane torch, or kindling, like hay or paper. Igniting piles by pouring flammable liquids

and a lit match should be limited to less flammable fluids; kerosene, charcoal lighter fluid, or an equal mix of diesel and gasoline. Only pour flammable liquids on a small area. Using gasoline is dangerous and can lead to serious injury and escaped fire.

Igniting a brush pile on the downwind side will create a backfire causing the pile to burn slower, with a lower heat intensity and shorter flame lengths. The brush pile will take longer to burn, but this is a good method to use when containment needs outweigh the amount of time needed to burn the brush pile.

When monitoring burning piles, consolidate the partially combusted

fuel into the pile using a front-end loader or by hand with a heavy-duty rake. This will ensure all the fuel is consumed and help to prevent escapes. Care should be used to prevent injury or equipment damage.

Because of the amount of coarse fuel piled in a small area, heat effects on the soil can be extreme. The soil can become temporarily sterile and remain bare of plants for quite a while, but it is temporary. In addition, the heat from the fire can top kill surrounding trees.

For more information on brush pile management, contact Wendie Powell, Livestock Production Agent, (620) 784-5337, wendiepowell@ksu.edu.



Dwight D. Eisenhower said: "The proudest thing I can claim is that I am from Abilene." Courtesy photo

## Abilene named finalist in Best Of Travel Awards

Abilene has been named a finalist in TravelAwaits' Best Of Travel Awards in the Favorite U.S. Small Town and Favorite Roadside Attraction category for its new World's Largest Belt Buckle.

According to its website, TravelAwaits focuses

on travelers aged 50+ and spotlights quaint small towns, unique experiences in big cities, delicious restaurants and fabulous stays. What sets TravelAwaits apart is making destinations accessible to all readers through their writers' first-hand knowledge and authentic experienc-

es.

In 2022, Abilene ranked #1 in both their Favorite and Friendliest U.S. Small Town categories.

"What makes this contest special is that readers from around the world nominate their best and favorite communities, businesses and attractions, so travelers have a voice in what they think is the best," said Julie Roller Weeks, Abilene Convention and Visitors Bureau director. "It's an honor to be a finalist, but we would love to win again."

This latest nomination is another feather in Abilene's cap, joining the ranks of other recent mentions, including runner-up in USA Today's Best Historic Small Town Contest, Top Ten True Western Town of the Year by True West magazine and Destination of the Year by the Midwest Travel Network.

"Today, I am incredibly proud of the good things happening in our community and welcome visitors to return and see what makes Abilene so special," Roller Weeks said.

To learn more and vote, visit: <https://www.travelawaits.com/best-of-travel-awards/>

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## Agriculture and the economy: an assessment of our current situation versus the 1980s

By Krista Swanson, lead economist for the National Corn Growers Association

The recent banking fallout and economic comparisons to the 1980s are likely to grab the attention of anyone in agriculture. Fortunately, the general economic environment and financial positioning of farmers is quite different than that period. Here is a look at three key points, with data to assess the current conditions as compared to the 1980s.

**Highest Farm Debt Since 1980, But Stronger Farm Solvency**

The USDA has forecast total real (inflation adjusted) farm debt at \$535.1 billion for 2023, continuing what has been a relatively steady upward trend throughout the 2000s. Up until 2020, farm debt remained below the 1980 inflation adjusted peak of \$501.7 billion. Since 2020, farm debt levels have been higher, but near the peak points of the earlier era. The comparison of today's farm debt levels to 1980 may be concerning, but other important values differ.

In the 1980s, real estate accounted for only half of total farm debt. For 2023, real estate accounts for 70% of total farm debt. Current high debt levels are more concentrated in real estate debt backed by high value and generally stable farm assets, particularly farmland. Additionally, farm debt of the earlier era accrued rapidly, jumping 27.3% from 1976 to 1979. In contrast, farm debt levels have risen 5.8% from 2020 to 2023, consistent with the gradual growth pace over the past two decades.

The current farm sector solvency is notably stronger than the 1980s. For 2023, the farm sector debt-to-asset ratio is forecast at 13.22, stronger than the 1985 peak at 22.19. Likewise, the farm sector debt-to-equity ratio is forecast at 15.24 for 2023, stronger than the 28.51 peak in 1985.

While comparisons between today's farm debt levels and the 1980s can be drawn, relative strength in farm assets and farm solvency contrasts with the earlier era, and indicates farmers today are better positioned to maintain and pay down relatively equivalent levels of debt.

**Highest Inflation Since 1981, But Lower Interest Rates**

The Consumer Prices Index (CPI), a common measure of inflation, hit 9.1% in June 2022, reaching the highest point since 1981. Generally noted causes for inflation in the 1970s and early 1980s are the oil crisis of the era, government overspending, and a cycle of higher wages and higher prices. Meanwhile, factors often attributed to the current period of inflation are the COVID shutdown related supply chain disruptions and the post-shutdown high level consumer savings and pent-up consumer demand. Though often overlooked, what may be the most important contributing factor to current inflation is the more than 40% increase in money supply from 2020 to 2022, as the Federal Reserve used quantitative easing to push the economy out of the short but severe 2020 recession.

Importantly, it took the Federal Reserve raising the federal funds rate to a high point of 20% in 1980 to control inflation of that era. Including the first rate increase in March 2022, the Federal Reserve has raised interest rates nine times to the current federal funds rate range of 4.75% to 5%. Inflation has dropped from the 9.1% high to 6.0% in the most recent CPI. Although inflation is not yet back to the 2% target rate, inflation has declined in the higher interest rate environment. Notes released after the March 2022 meeting of the Federal Reserve Open Market Committee indicate the end of the rate

hike cycle is near.

While comparisons between recent inflation levels and the 1980s can be drawn, current interest rates are merely one quarter of the peak rate of that era and further increase is likely to be minimal.

**Highest Treasury Bond Inversion since 1981, But Production Agriculture Better Positioned**

Several economic indicators point toward impending recession. One indicator, the relationship between two-year treasury bond yields and ten-year treasury bond yields, has received added attention amid recent bank failures because the inversion in yields of these two treasury bonds challenges banks who rely on the normal positioning of lower short-term rates and higher long-term rates. This normal relationship makes sense, a greater risk would be expected when committing money for a longer period. An inversion means the opposite is true, with higher short-term rates and lower long-term rates. When that has happened in the past, a recession within two years has occurred 98% of the time. This indicator has accurately predicted the last eight recessions. The two treasury yields inverted last summer, but in early March the inversion was at the widest position since 1981. Since the failure of Silicon Valley Bank, the inversion has narrowed some, but it still points toward recession.

For farmers, the notion of a forthcoming recession and comparisons to the 1980s triggers thoughts of the 1980s farm economic crisis. While inflation and interest rates played a part in that, a multitude of other factors led to that outcome. If the U.S. moves into recession over the next year, production agriculture enters it better positioned than coming into the 1980s and could continue to remain strong and resilient, particularly if the recession is short. Although production agriculture runs in a race with the rest of the economy, it doesn't always follow the same course. Other factors impacting production agriculture are economic conditions of trade partners and other producers, the value of the dollar related to other currencies, weather, geopolitical relationships, and policy related to agriculture.

### REAL ESTATE AUCTION

TUESDAY, MAY 9, 2023 \* 6:30 PM

AUCTION LOCATION: Held Onsite at 31597 Center Street, WAMEGO, KANSAS

OPEN HOUSE: Sunday, April 30 (2-4 PM)



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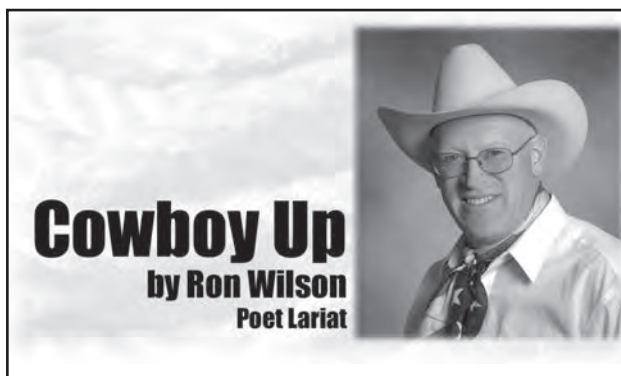
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## Tripped Up

It was a scary moment. The big Clydesdale horse was part of an eight-horse hitch pulling a wagon. But as the lead horses circled around, one horse in the middle fell and found himself entangled in the harness, unable to get up. His struggles started to upset the other horses. Was this incident headed for disaster?

It's something you never want to see. With livestock, anything can happen. Once in a great while, a racehorse will break a leg at the track and tragically have to be euthanized, for example. This incident with the Clydesdales happened right in the middle of a performance at the San Antonio Stock Show and Rodeo. Because of modern technology, the entire incident was captured on video and posted on YouTube.

It's like a football player tripping over his own feet during the Super Bowl, while everybody's watching. That would be my luck.

I happened to see the video of the Clydesdale incident on YouTube. The Budweiser Clydesdales were making an appearance at the rodeo. As the

## Four basic fundamentals of pasture recovery

Springtime brings a wealth of cattle and pasture management tasks. Truth be told: It can be overwhelming. And we've had all winter to think about what we'd like to do differently this year, right? So where to start?

Jeff Clark, Range and Pasture market development specialist for Corteva Agriscience, suggests producers shorten their to-do list and concentrate on fundamental factors of pasture management.

1. Soil health. Soil fertility is your "engine." Take soil samples. And then follow the soil sample recommendations! Invest in pastures and empower grasses to fuel your cattle.

2. Weed management. Identify weed problems in the spring or summer and how they affect investment. Do not use a "shotgun approach." Instead, concentrate on the top culprits.

a. Take care of your hayfields first.  
b. Then move to grazing pastures.

3. Grazing management. Don't stress pastures by overgrazing and risk killing the roots. The plant can only grow what the root can provide.

4. Watch stocking rate. Although it's not always an easy decision, take advantage of higher cattle prices to cull underperforming animals more tightly. Return the money to invest in pasture improvement programs.

jury to the horse, the crew calmly went about untangling the harness and then separating the horses. The lead horses were unhitched and pulled forward. The harness was released, and eventually the wheel horses pulled the wagon forward by themselves.

A major shout-out to the rodeo announcer while all this was going on. He stayed cool, kept the audience informed about what was going on in this unexpected situation, and explained how we care for our livestock and want to assure their health and safety. He reassured the listening public and also said it wouldn't hurt to say a little prayer to make sure everything is okay. He was prepared and had some additional facts to share about these remarkable horses as the handlers did their work.

They got the fallen horse untangled. After a few minutes to gather his strength, the horse was able to stand up on his own. He walked out of the arena on his own power, to a rousing ovation from the crowd. I must admit I got choked up as the announcer called for a round of applause for these professional handlers. After a vet check, Budweiser reported that the horse was fine.

It was a scary moment, happening on a big stage. The video of this incident has had more than 3.8 million views. But instead of seeing a disaster, the viewers saw a demonstration of professionalism, good training, and a safe and healthy horse. Good work!

## Fallen and I Can't Get Up

By Ron Wilson, Poet Lariat

It was a routine performance, down in San Antonio, Where the Clydesdales were performing at the annual rodeo.

But when the lead horses turned, one horse happened to fall down, Got entangled in the harness and not free to get around.

It could have been disaster as he struggled to break free,

If the other horses panicked in their mentality.

Instead, the driver and the handlers were quickly on the scene,

To calm the horses down and to keep the place serene.

They calmly took apart the harness, handling the situation well, Maintaining health and safety, as the announcer chose to tell.

He calmly shared the situation on the rodeo microphone,

Till that horse stood up

and walked from the arena on his own.

It could have been disaster if it had taken different courses.

Instead, it demonstrated good handlers and good horses.

Happy Trails!

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## Water conservation efforts also prove to be profitable, study shows

By Pat Melgares, K-State Research and Extension news service

It's been ten years since the Kansas legislature passed a bill that gave groundwater management districts the authority to initiate voluntary steps to meet water conservation goals, and a Kansas State University agricultural economist says the state's faith in farmers seems to be well-placed.

Bill Golden said farmers in the Sheridan 6 Local Enhanced Management Area – a high priority area located within Groundwater Management District #4 in northwest Kansas – have reduced their water use by at least 20% compared to neighbors who have yet to commit to the LEMA. The original agreement began in 2013.

"I did an economic study between 2006 and 2013... and we predicted that farmers (participating in a LEMA) would lose money," Golden said. "We thought that reducing water use was a great idea; it's going to help the Ogallala Aquifer, but you're going to lose some money."

That has not turned out to be the case, according to Golden, who says that because they improved efficiency on their farm – such as taking advantage of available rainfall, implementing soil moisture monitors or changing their seeding and fertilizer rates – farmers actually are making more money on their cropland.

"At the end of the first five years (2018), the producers in Sheridan 6 decided to continue what they were doing," Golden said. "In fact, Groundwater Management District No. 4 decided to have a district-wide LEMA."

LEMAs became part of Kansas water law in 2012 when the state's legislature passed SB 310. A LEMA is a producer-driven conservation program in which farmers form a contract with the Kansas Division of Water Resources to voluntarily reduce their use of water. The agreement can be for any amount of time and include whatever

goals the farmers decide upon.

In the Sheridan 6 LEMA, farmers originally decided to reduce water use by 20% over five years, which amounted to an allocation of 55 inches of water per acre over a five-year period. Some years, they might use more of their allocation; other years, a little less.

"The Kansas Geological Survey monitors water levels in the Ogallala Aquifer and what they have found is that the levels used to drop two to three feet per year (prior to LEMAs)," Golden said. "Now, they're finding that it's dropping just two to three inches for the year. So in that area, we have nearly stabilized the depletion of the aquifer."

Golden said farmers' concerns at one time centered on a misunderstanding that the water in an aquifer moves quickly, which meant that if they didn't use it today, it wouldn't be there to use later on.

"But the Kansas Geological Survey has done a study that indicates that water is not moving (quickly)," Golden said. "The message for farmers is that the water you save today is going to be the water you can use next year or in ten years from now, or 20 years from now."

Golden said farmers also worried that using less water would reduce yields and thus make the value of land – particularly rented land – less valuable. But the most re-

cent studies showing that farmers continue to produce good yields and be profitable while reducing water has debunked those thoughts.

"There's not a lot of things wrong with the LEMA program and water conservation efforts in those areas right now," Golden said. "They're working out very well. It's just a matter of how do you convince everybody to do it?"

Golden's full report is available online. He also was a guest recently on Kansas State University's weekday podcast, Agriculture Today.

More information is also available by contacting a Kansas watershed specialist, or the Kansas Center for Agricultural Resources and the Environment.

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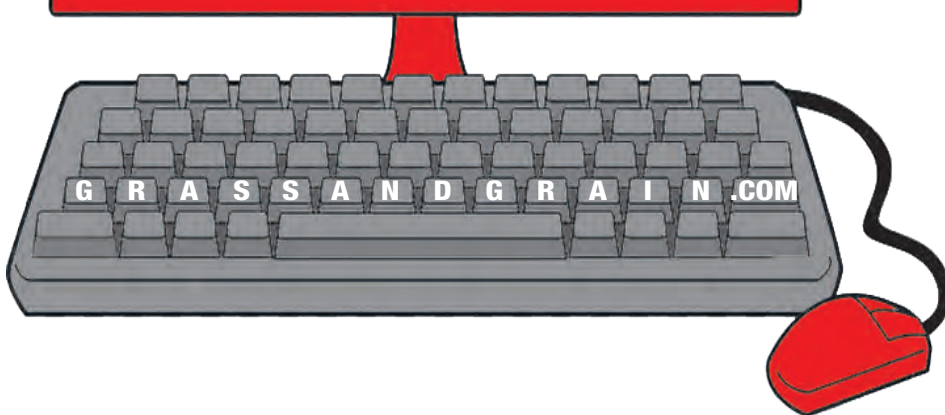
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# Do your research on soybean seed treatments

By David Hallauer, Meadowlark District Extension agent, crops and soils/horticulture

As the popularity of early planted soybeans has increased, so, should our knowledge of soybean seed treatments. A soybean that emerges quickly and gets growing generally tolerates

disease/insect pressure better than one sitting in cold, damp soils (if it survives - will it thrive?). Soybean seed treatments may help in those cooler, damper conditions, but there are limits.

Annual losses to soybean seedling diseases or seed rots is estimated at around two bushels per acre. Pythium, Rhizoctonia, and Fusarium are the primary culprits (field history and post planting conditions can be huge factors). A look at a seed tag can give you the treatment, but you

may have to dig a little to determine whether the treatment fits the disease you're facing (example: metalaxyl and mefenoxam are active against Pythium/Phytophthora, but not Fusarium or Rhizoctonia). While you're looking, check out product rates. Fields with a history of Phytophthora, for example, may require higher rates of a seed treatment to be effective. Seed treatments typically provide some level of protection against disease for approximately three weeks after plant-

ing, with contact fungicides having shorter residuals than systemic products.

Make plans for scouting as well. Plant stand issues aren't always disease related (compaction, excess residue, and planting depth issues come to mind). To help delineate between dis-

ease issues - or something else, check out this helpful reference from the Crop Protection Network: <https://crop-protectionnetwork.org/resources/publications/seedling-diseases>. With luck, maybe it will help reduce that two-bushel-per-acre average seedling disease loss.

## Kansas prospective planting report released by NASS

Kansas corn growers intend to plant 5.60 million acres this year, up 2% from 2022, according to the USDA's National Agricultural Statistics Service. Soybean planted acreage is expected to be 4.60 million acres, down 9% from last year. Winter wheat acres seeded in the fall of 2022 are estimated at 8.10 million, up 11% from last year. Sorghum growers in Kansas intend to plant 3.15 million acres, down 5% from a year ago. All hay acreage to be harvested is expected to total 2.50 million acres, down 4% from last year's acreage. Sunflower producers expect to plant 64,000 acres, up 52% from 2022. Oil varieties account for 52,000 acres, up 63% from a year ago. Non-oil varieties made up the balance of 12,000 acres, up 20%. Oat intentions are estimated at 130,000 acres, up 18% from last year. Canola planted acreage is expected to be 5,000 acres, down 44% from 2022 and matching 2020's record low planted acres. Barley area planted is expected to be 12,000 acres, down 20% from last year. Cotton producers expect to plant 115,000 acres, down 30% from a year ago. Estimates in this report are based on a survey conducted during the first two weeks of March.

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Market Report for 4-6-23. 1146 Head Sold.

STEERS/BULLS	Individual Report	COW/CALF PAIRS:
<b>BEEF</b>	<b>STEERS</b>	\$1900-\$1400
300-400# \$300.00-\$255.00	10 mix@395# \$298.00	HEIFERS PAIRS: \$2300-\$1900
400-500# \$266.00-\$225.00	7 blk@475# \$264.00	FALL BRED COWS: \$2300-\$1700
500-600# \$247.00-\$205.00	4 blk@551# \$244.00	HFRTS: \$134-\$113
600-700# \$223.00-\$190.00	4 blk@#626# \$219.00	<b>COWS-HIGH YIELDING:</b>
700-800# \$202.00-\$188.00	58 blk@904# \$187.10	\$104-\$89
800-900# N/T		<b>COWS-LGT WT &amp; LOW YIELDING:</b>
900-1,000# \$187.00-\$180.00		\$85-\$65
<b>HEIFERS</b>	<b>HEIFERS</b>	<b>BULLS:</b> \$123-\$105
300-400# \$239.00-\$210.00	14 blk@444# \$236.00	
400-500# \$236.00-\$200.00	9 mix@528# \$213.00	
500-600# \$215.00-\$190.00	8 blk@610# \$290.00	
600-700# \$190.00-\$175.00		
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Tues., April 25<sup>th</sup> - Calf/Yearling Special  
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COWS: \$67-\$102.00; BULLS: \$109-\$125.00

BULLCALVES		
3 wf	458@202.50	32 mix
3 blk	507@235.00	3 mix
11 blk	565@235.00	17 mix
4 mix	521@225.00	6 mix
5 blk	525@225.00	
3 blk	593@217.50	
HEIFERS		
14 mix	377@245.00	
6 mix	380@235.00	
3 bkbw	380@224.00	
3 Char	368@221.00	
6 blk	424@252.50	
5 blk	448@247.00	
5 mix	442@240.00	
13 mix	407@233.00	
5 blk	424@232.00	
3 mix	448@227.00	
6 Char	412@225.00	
4 mix	461@210.00	
5 Char	492@207.00	
4 blk	449@195.00	
11 bkbw	507@236.00	
5 mix	506@227.00	
6 blk	502@225.00	
3 blk	507@218.00	
3 mix	543@198.00	
10 mix	581@195.00	
12 blk	563@194.00	
5 mix	575@190.00	
3 mix	557@185.00	
12 mix	624@193.00	
4 blk	693@193.00	
3 mix	603@190.00	
11 bkbw	673@190.00	
11 mix	643@185.50	
6 mix	702@189.50	
3 mix	723@184.50	
4 blk	711@180.00	
5 mix	760@178.00	
3 mix	738@175.00	
15 mix	797@173.00	
14 bkbw	829@180.00	
4 blk	816@179.50	
5 bkbw	823@178.00	
23 mix	818@176.00	
31 mix	841@174.00	

Check our website for consignments!  
THANK YOU FOR ALL OF YOUR CONTINUED SUPPORT!  
YOUR BUSINESS IS ALWAYS APPRECIATED!

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LYLE WILLIAMS, Field Representative, 785-229-5457  
MATT REDDING, Field Representative, 620-364-6715  
DALTON HOOK, Field Representative, 785-219-2908  
WIBW 580 - 6:45 A.M. Thurs; KVOE 1400 - 6:30-6:45 A.M. Thurs. & Fri.  
To see more consignments go to: [emporialivestock.com](http://emporialivestock.com)

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**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 4-6-23. 692 head  
300-400 lb. steers, \$241-\$257; heifers, \$191-\$251; 400-500 lb. steers, \$211-\$253; heifers, \$201-\$230; 500-600 lb. steers, \$205-\$234; heifers, \$183-\$206.50; 600-700 lb. steers, \$191-\$221; heifers, \$161-\$189; 700-800 lb. steers, \$180-\$205; heifers, \$165-\$183; 800-900 lb. steers, \$177-\$193.10; heifers, \$160-\$169.50. **Trend on Calves:** Mostly \$6-\$10 higher on an uneven test. **Trend on Feeder Cattle:** Fully \$7-\$10 higher. **Butcher Cows:** High dressing cows \$94-\$114; Avg. dressing cows \$84-\$93; Low dressing cows \$60-\$80. **Butcher Bulls:** Avg. to high dressing bulls \$100-\$120. **Trend on Cows & Bulls:** Steady to \$2 higher.

Some Highlights Include:

HEIFERS		STEERS	
4 blk	414@230.00	3 blk	338@257.00
3 blk	445@208.00	7 blk	421@253.00
6 mix	540@206.50	4 mix	593@221.00
6 blk	693@182.00	13 blk	700@205.00
33 mix	722@177.00	6 mix	782@191.00
60 mix	745@183.00	17 blk	834@185.50
		65 mix	842@193.10

Next Sale: Thursday, April 13

- 32 mixed steers & heifers, home raised, double vacc, 450-650lbs
- 90 mixed steers & heifers, home raised, long weaned, 450-650lb-steers & heifers, 400-450lbs
- 40 mixed steers & heifers, home raised, long weaned, 600-750lbs
- 60 mostly black steers & heifers, home raised, long weaned, 750-850lbs
- 3 loads red & black steers, 850-950lbs
- 60 mostly red Angus steers & heifers, HR, weaned 60+, shots, NO implants 500-650lbs

\*\*\*  
**SPECIAL COW SALE Saturday, April 15**

- 75 black replacement heifers, calf hooded, ready to bred
- 54 Angus & Angus cross 1st calf heifer pairs, home raised, calves AI sired by 3G Fireball, most are Feb calves & are worked & ready for grass
- 26 Angus heifer pairs, heifers originally from Blythe Angus Ranch and calves AI sired.
- 19 Black Angus heifers bred to Ruffell Angus bulls to calve August 1st for 45 days
- 11 Angus heifer pairs, heifers originated from Wyoming, calves worked
- 30 Angus heifer pairs
- 10 mixed heifer pairs
- 7 Angus 3 year old pairs with February calves
- 6 Red Angus 3-4 year old pairs, 250lb calves at side
- 15 black 3-6 year old pairs, calves are black & red & have been worked
- 65 Angus 6-8 year old pairs, Fink genetics, calves 30-45 days old
- 20 SimAngus running age pairs
- 15 black running age pairs, cows have Dec-Jan calves
- 10 black bred cows 8 are coming with first calf
- 5 black running age Spring bred cows
- 29 4-8 yr Red Angus fall pairs, Fink Angus sired calves. Cows bred back to Fink Angus/Registered Horned Hereford bulls, 75 day calving period to start Sept 15th. Calves have had all of their shots.
- 41 4-8 yr black & bwf pairs, Fink Angus sired calves. Cows bred back to Fink Angus/Registered Horned Hereford bulls, 75 day calving period to start Sept 15th. Calves have had all of their shots.
- 60 Fall Angus 3-5 year old bred cows calve Sept. 15th for 75 days
- 35 Fall black bred cows, 3-6 year old cows
- 46 Red Angus/Red Angus cross Fall 4-8 year cows bred to Registered Red & Black Angus bulls
- 27 mixed 3-9 year old Fall calving cows bred to Registered Red Angus bulls. Will calve September 20th for 30 days
- 28 Fall running age bred cows, vaccinated in December
- 10 black fall bred running age cows
- 3 14-15 month old SimAngus bulls, virgin bulls
- 3 Registered Red Angus 18 month old virgin bulls - have been trich and semen tested sound
- 3 Registered black Gelbvieh bulls 3-4 years old - have been trich and semen tested sound
- 6 18month old black Gelbvieh bulls, no papers, all are embryo transplant calves, virgin bulls
- 1 3 year old Ultrablack Brangus bull, son of Vorel Currency
- 25 Red Angus replacement heifers, all shots & tract scored

GO TO OUR WEBSITE FOR DAILY CONSIGNMENT UPDATES  
[WWW.ELDORADOLIVESTOCK.COM](http://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](http://www.eldoradolivestock.com)  
To stay up to date on our latest announcements you can "Like" us on Facebook

Josh Mueller Owner/Barn Manager (316) 680-9680	Van Schmidt Auctioneer/Fieldman (620) 345-6879
Seth Greenwood Asst. Barn Manager/Fieldman (620) 583-3338	Charly Cummings Auctioneer/Fieldman (620) 496-7108
Kyle Criger Fieldman (620) 330-3300	Brandon Fredrick Fieldman (620) 204-0841

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

**JC LIVESTOCK SALES INC.**  
Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Results for April 5th, 2023

STEERS		FALL COWS	
1	405 263.00	8	\$1,900
2	470 252.00	5	\$1,875
21	597 240.75	6	\$1,800
7	635 240.75	5	\$1,650
21	596 231.00		
20	722 206.50	5	\$2,025
43	726 205.50	45	\$2,000
25	766 189.00	9	\$1,985
18	848 186.00	8	\$1,960
HEIFERS		SPRING PAIRS - 2 YR	
1	405 215.00	8	\$2,725
13	634 200.50	6	\$2,675
25	596 197.75	7	\$2,575
14	697 189.00	7	\$2,475
17	742 182.50	14	\$2,400
13	911 168.75	20	\$2,350
16	829 167.50		
15	926 163.00		
9	1133 142.00		

TOP BUTCHER COW: \$101.00 @ 1,860 LBS.  
TOP BUTCHER BULL: \$124.50 @ 1,780 LBS.  
PIG TOP: \$95/HD @ 85 LBS.

**EARLY CONSIGNMENTS FOR APRIL 12**

- 125 blk X.....450-750#.....w.v.
- 18 blk X.....500-600#.....w.v.
- 8 blk X.....450-550#.....w.v.
- 42 blk X.....400-600#.....off cow, pre-vac

PLUS MORE BY SALE TIME!

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

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

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

**CLAY CENTER LIVESTOCK SALES INC.**  
Cattle sales Tuesday, 11:00 AM.

Report from April 4th, 2023

STEERS:		
14	506	260.00
8	521	255.00
7	551	238.50
9	581	218.50
8	696	207.00
5	749	199.00
4	784	185.50
4	873	180.50
4	895	175.00
5	982	156.00

TOP BUTCHER COW: \$106.00 @ 1,840 LBS.  
TOP BUTCHER BULL: \$136.00 @ 2,280 LBS.

HEIFERS:		
8	456	229.00
8	545	210.00
3	583	199.00
9	598	187.00

BRED COWS: NO TEST  
PAIRS: \$1,050-\$1,125

Next Alternative Animal Sale  
Saturday, April 15<sup>th</sup> - Equipment, Poultry  
Sunday, April 16<sup>th</sup> - Tack, Hoofstock, Alt. Animals.

— Admission Fee. —  
Any questions, see our Facebook Page, Clay Center Alternative Animal Sales.

**NEXT SHEEP & GOAT SALE SAT., MAY 6<sup>TH</sup>**

Clay Center, KS • Barn Phone 785-632-5566  
Clay Center Field Representatives:  
Tom Koch, 785-243-5124, Lance Lagasse, 785-262-1185

KARL LANGVARDT Cell: 785-499-2945	MITCH LANGVARDT Cell: 785-761-5814	LYNN LANGVARDT Cell: 785-761-5813
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**JC LIVESTOCK SALES INC.**  
Radio Market Reports KFRM 550 Tues. & Wed. 8:00 am

**CLAY CENTER LIVESTOCK SALES INC.**  
Radio Market Reports KCLY-Fm 100.9 Tues. 6:45 a.m.



# Corah, Nichols: life lessons and thoughts on the future of education, associations and cattle business

**By Miranda Reiman**  
There could come a day when breed associations are no longer relevant. But in an ever-changing world of cattle breeding and marketing, they might be even more important than they once were.  
That's according to Larry Corah, professor emeritus at Kansas State University and former vice

president of supply at Certified Angus Beef.  
"When all the genomic information, genetic information, started floating out, one of the conversations we'd hear a lot is 'will breed associations exist in five years, ten years' time?' That was really common. I don't hear that today," he says. "I think as you look to the future, I would argue,

in many ways, breed associations could play an even bigger role than they do today." Corah and his friend and colleague Dave Nichols, longtime animal scientist at Kansas State University and now also a professor emeritus, joined The Angus Conversation to talk about the long history of innovation in the cattle business and the evolving

roles of associations and land-grant institutions.  
Impressive, upward change in the beef business can be attributed to new discoveries, application of tools and more collective knowledge, they say. Cattlemen have implemented that to reach heights that were just a far-fetched dream even at the turn of the century.

They recalled the early days of artificial insemination, the decline and then rise in beef quality and the makeup of students when they started compared to today.  
"I would never have imagined the changes we would've seen," Nichols says. The cattle have improved so much he's had recent challenges that

would have seemed laughable not long ago. "One of the problems we have right now, we have a calving class and our challenge is we don't have any assists."  
Corah says the Angus breed has an "obligation" to continue that kind of advancement, for both its members and its customers.

## Cow Power delivers validation and EPD accuracy

Dr. Bob Weaber, Kansas State University, share in a recent interview the merit and value of establishing "Cow Power," a female genotyping project that is a collaborative effort between the American Gelbvieh Association (AGA), American Gelbvieh Foundation (AGF) and Neogen to increase the number of genotypes and phenotypic information on females in the AGA herdbook. The information allows producers to make data-driven female selections for their herd on an ongoing basis.

Weaber, who serves as a genetics consultant for the AGA, says that collecting genotypic information from cow herds is an excellent way to establish and maintain validated, parent-verified pedigrees on cows in the herd.

He says that the true value of the Cow Power project is found in genotyping because of the significant amount of information it adds to the genetic evaluation system.

"The accuracies of the EPDs on those females improve to provide more precise breeding opportunities for those cows," he says. "By gathering the genomic information, we get more information about that cow's genetic potential and her lifetime production. Genotyping cows or heifers early in their life provides opportunities for more precise breeding of those females, and genotyping allows us to track out a cow's trajectory and your herd's trajectory for genetic trends using that genomic information."

Weaber shares that even in well-managed herds, somewhere between five and ten percent of the pedigrees are incorrect. And while he says those discrepancies aren't anyone's fault, they do impact the accuracies of the EPDs that are calculated from those animals. The Cow Power project is instrumental in resolving pedigree discrepancies, allowing producers to know what the pedigree is, and providing accurate values for EPD calculation.

Not only does the information collected help to strengthen the AGA's database and improve genetic predictions, members will also see benefit by having this information collected on their own cow herd. Because females typically only have one calf per year, it can take years before data is collected on even just a handful of her progeny. For traits such as weaning weight and yearling weight, a genomic test can offer as much information as having 25 calves on the ground. For marbling and back fat, it's the equivalent of having ten progeny reported for those traits. Having this type of information on every female in the herd not only helps increase the accuracy of the EPDs but allows producers the knowledge to make more informed breeding and selection decisions.

Producers who participate and remain engaged in the Cow Power

project will have access to the research to genotype replacement heifers. If a producer has submitted 90% of the genotypes for mature cows, along with mature body weight and body condition score in the first year, the member will be eligible to submit replacement heifers annually at the research price as long as the project continues. A minimum of 90% of the replacement heifers must be tested to receive research pricing.

"Cow Power allows you to plot your own destiny through the use of genomic information, which allows you to select heifers that go into the replacement pen - you can really key in on those important traits based on a heifer's EPDs and genomic information," he says. "From an association perspective, genotyping a broader group of animals in the population creates a greater representation of all the genotypes in the total

herd. That data allows us at the research level and at the genetic evaluation level to do a better job of documenting differences in genetics because of the broader sampling."

Weaber says that current pricing also makes the Cow Power project attractive and encourages producers to invest in their herds by utilizing the technology.

With generous support from the American Gelbvieh Foundation, the Cow Power project is now offering a lower price for the genomic test. Through participation in the project, members have the opportunity to receive a research price of \$20 for a GGP-100k genomic test on females to DNA test at least 90% of their current active cow inventory. Additionally, participants who submit both mature weights and body condition scores electronically on at least 90% of the current active cow inventory

will receive an additional one-time \$4 rebate per head. Thus, all females can receive a GGP-100k genomic test for only \$16. For just \$1 more than a

parentage test, members are encouraged to take advantage of this incredible opportunity and learn about the cow power in their herd.

**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, APRIL 4, 2023**  
RECEIPTS: 2273 CATTLE  
FOR FULL RESULTS, VISIT OUR WEBSITE:  
[WWW.HOLTONLIVESTOCK.COM](http://WWW.HOLTONLIVESTOCK.COM)

STEERS		HEIFERS	
3 blk Topeka 376@290.00	23 mix Seneca 638@206.00	15 blk bwf Holton 909@1,675.00hd	8 blk Corning 333@252.50
11 blk bwf Effingham 402@278.00	13 blk Goff 763@199.00	10 blk bwf Effingham 345@250.00	10 blk Wheaton 361@245.00
12 char blk Netawaka 425@264.00	61 mix Holton 858@187.10	10 char blk Netawaka 389@239.00	28 blk bwf Lancaster 531@239.00
7 blk Circleville 475@259.00	7 rwf bwf Fairview 897@180.00	14 blk bwf Everest 522@237.00	18 blk char Effingham 475@233.00
7 char blk Netawaka 493@255.00	12 bwf rwf Fairview 1063@165.00	14 char red Soldier 443@225.00	10 blk bwf Holton 579@218.00
18 rwf bwf Holton 478@255.00		39 blk bwf Effingham 605@217.50	20 mix Goff 658@196.00
5 blk Hiawatha 535@254.00		12 blk Seneca 1042@166.50	
12 blk bwf Everest 552@250.00			
18 blk Weston, MO 569@250.00			
18 blk bwf Havensville 582@246.00			
18 mix Netawaka 499@241.00			
21 blk red Fairview 576@235.00			
19 blk bwf Lancaster 574@232.00			
25 blk Goff 617@232.00			
46 blk Effingham 627@229.50			
54 blk red Fairview 646@225.00			
11 blk Havensville 689@224.00			
33 blk Weston, MO 683@221.50			
19 blk bwf Effingham 724@212.00			

**Dan Harris, Auctioneer & Owner • 785-364-7137**  
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**VALENTINE LIVESTOCK AUCTION CO. Valentine, Neb.**  
**THURSDAY, APRIL 13, 2023**  
**Special Feeder Sale**  
S.T. 12:00 Noon Expecting 3000 hd

**Listings:**

**Breedable Heifers:**  
172 Ang NI B.V. excellent disposition-not topped .....625-775#..... Bryan & Ann Starr  
100 Ang & blk NI not topped disposition plus! .....575-725#..... Rod & Sandy Ansley  
70 ...blk & Ang NI .....575-725#..... Scott Divan  
80 ...Ang & blk NI B.V. A.I. genetics for 20 years .....650-750#..... DD Linse  
60 ...blk NI not topped .....550-600#..... John Elbert & Brett Haake  
40 ...Ang B.V. girth .....650-725#..... Brett Galbraith  
35 ...blk & Ang NI breedable- disposition plus! .....650-725#..... Clint Burney  
18 ...Ang NI B.V. disposition plus!- THE top end .....800#..... Ron Fisher

200 blk bwf (100) str NI top of 500 .....800-850#..... Denny Witt  
150 blk, few bwf str NI drugfree Gray Angus genes .....625-800#..... Butch Divan  
100 blk & Ang str NI disposition + .....575-725#..... Rod & Sandy Ansley  
167 blk (10 rd) str NI May born cake & range .....475-575#..... Camell & Shadbolt  
200 blk & Ang NI green May calves .....475-550#..... Barry & Walker Wolff  
130 blk NI green .....350-525#..... Chev Sherman  
140 blk Ang-x, Char-x & rd NI top of 230, May born .....600-675#..... Charles & Joan Dickau  
100 blk, & x-bred .....700-800#..... Landing Creek  
80 ...blk hfrs NI hayfed .....500-550#..... Frauen Ranch  
80 ...blk, bwf hfrs NI .....575-650#..... H,A,C & B Heimert  
25 ...blk, bwf NI .....500-550#..... Lazy Trails  
31 ...blk NI .....700-800#..... Jeanie Kearns  
15 ...blk str .....800-850#..... Brad McClaren

**Fall Calves: all weaned 35-50 days**  
250 blk NI .....450-550#..... Ries & Keller  
250 Ang NI .....450-575#..... Burdick Ranch  
200 blk & Ang NI .....450-625#..... Shaffer L & C  
175 Char-x, rd & rd-x NI top of 340 .....450-550#..... Charles & Joan Dickau  
65 ...blk & Ang str NI .....550#..... Ron Dearthmont  
90 ...blk (55s-35h) NI .....450-575#..... Billy & Ann Kepler

**Brett Galbraith is donating an Angus hfr for a Roll Over Auction during the sale of his hfrs, to benefit R-Calf**  
**View our special sales online @ [cattieusa.com](http://cattieusa.com)**  
**Office: 402-376-3611**  
Greg Arendt, Mgr., C: 402-376-4701 Brogan Arendt, Fieldman, C: 402-389-0281  
**For complete listing visit our website: [www.valentinelivestock.net](http://www.valentinelivestock.net)**

**Herington Livestock Commission Co.**

**CATTLE SALE EVERY WEDNESDAY: 12:00 PM**  
**Results for April 5, 2023**

COWS / HFRSTS / BULLS		HEIFERS	
Weight	Price Range	Weight	Price
Cows: 1010-1775	\$87.00-\$103.00	12 blk Hope 578	\$208.50
Heifers: 900-1145	\$105.00-\$120.00	Herington 9 blk 267	\$235.00
Bulls: 1575-2510	\$112.00-\$120.50	Herington 30 blk 402	\$226.00
		Council Grove 17 blk 456	\$221.00
		Durham 13 Char 466	\$220.00
		Lincolntonville 6 mix 433	\$217.00
		Tampa 8 mix 473	\$211.00
		Herington 25 blk 528	\$207.00
		Lincolntonville 6 blk 488	\$207.00
		Lincolntonville 6 mix 512	\$206.00
		Durham 10 Char 572	\$203.00
		Wilsey 7 blk 578	\$202.25
		Herington 13 mix 502	\$202.00
		Tampa 58 mix 566	\$202.00
		Lincolntonville 5 blk 704	\$201.00
		Council Grove 8 mix 578	\$201.00
		Tampa 10 mix 494	\$200.00
		Herington 11 mix 620	\$199.50
		Lost Springs 11 blk 527	\$196.00
		Lincolntonville 5 blk 603	\$192.50
		Wilsey 7 blk 642	\$191.50
		Herington 64 blk 687	\$190.25
		Hope 5 blk 697	\$189.00
		Council Grove 22 mix 709	\$186.00
		White City 6 mix 698	\$184.50
		Herington 23 blk 752	\$178.00
		Herington 87 blk 812	\$175.60
		Herington 16 Herefords 764	\$174.00
		Herington 5 blk 769	\$172.50
		Herington 10 blk 884	\$168.25
		Ramona 60 mix 896	\$167.00

**\*NEXT SALE\*  
APRIL 12, 2023**  
**CHECK WEBSITE FOR CONSIGNMENTS**

**Manager: Tracy Ediger, 785-366-6645 \* Barn Phone: 785-258-2205**  
Seth Bartel, 620-382-7041 • Tate Becker, 785-258-4165  
Dave Bures, 402-766-3743 • Tim Wildman, 785-366-6152  
KFRM AM 550, Every Wed., 8:00 a.m. • [www.HeringtonLivestock.com](http://www.HeringtonLivestock.com)

**LACROSSE LIVESTOCK**

**Early Consignments for Wed., April 19<sup>th</sup> - Special Cow Sale**  
**5:00 p.m. Start Time**

*Many producers are selling due to the drought. Lots of quality cows coming!*

**Dispersal:**  
70) Blk fall bred cows/ 4-10 YO/ Bred Blk Angus/ Start Aug. 25 for 75 days.

**Dispersal:**  
50) Blk/ Red pairs & heavy bred cows/ calving now/ Bred Blk or Red Angus/ calves- newborn - 1 1/2 mo. old.

**Replacement Heifers:**  
7-10) 8-900# Holstein hfs/ yearlings/ OCV'd/ tract checked/ ready to breed.

**Bred Cows:**  
40) CharX fall bred cows/ 5-9 YO/ Bred RA or F1 RA/ Char bulls/ Bulls in Dec. 15.  
40) Blk/ Red/ Char fall bred cows/ 4-10 YO/ Bred Ficken Blk Angus.  
25) Blk bred cows/ May - June calvers.  
16) 1100-1200# Blk/ Red fall breeds/ 3-4 YO/ Bulls in Dec. 1/ Bred Blk or Red Angus.

**Pairs:**  
60) CharX pairs/ 8-10 YO/ RA/ CharX calves at side/ calves ~1 mo. old.  
25) Blk first calf pairs/ calves- tagged to match & worked/ cows- poured.  
25) RA/ CharX pairs/ solid & short solid/ 1 1/2 - 2 mo. old calves/ calves worked.  
20) Blk/ Red first calf pairs/ 1+ mo. old calves/ tagged to match.  
20) Blk older pairs.  
19) Blk pairs/ 4 YO.  
10) Blk pairs/ 9 YO/ mostly Jan-Feb calves/ calves- Alpha 7 & Endovac Beef at birth/ banded/ no implants/ cows- Oct vac- Guardian, Vision 7 w/ Spur, ViraShield 5 VL5 & poured/ cows were given Endovac Beef at calving.  
6-10) Blk pairs/ 6-7 YO/ Bwf calves at side/ tagged to match.

**Many more consignments by sale time!**

**To bid online, please register at [lmauctions.com](http://lmauctions.com) at least 2 days prior to the sale.**

**Check out videos & early consignments online at our website, [lacrosselivestock.com](http://lacrosselivestock.com)!**

**April 14<sup>th</sup> - Special Calf Sale**  
**April 19<sup>th</sup> - (Wed.) Special Cow Sale @ 5 P.M.**  
**April 21<sup>st</sup> - Back to Grass Sale**

**Please call with any questions - Sale Barn: 785-222-2586**  
**Ryan Zeltwanger, Owner: 785-259-5420**  
**Chandra Wegener, Owner: 620-617-7236**  
**Ryan Wegener, Owner: 620-617-3279**



# Farm Credit Associations of Kansas and CoBank invest \$1 million in K-State College of Agriculture's innovation centers

Four Kansas Farm Credit Associations and CoBank recently combined to give \$1 million to support the Kansas State University College of Agriculture's innovation centers for grain, food, animal and agronomy research.

This investment will fund new facilities, renovations of current buildings and improvements in the technology and equipment necessary for interdisciplinary, cutting-edge research, all of which will continue to enhance the college's exceptional student experience.

"An investment in Kansas State University's innovation centers is an investment in the future of U.S. agriculture," said Bob Campbell, senior vice president of Frontier Farm Credit, speaking on behalf of Farm Credit Associations of Kansas and CoBank. "The university is

focused on solving some of today's biggest challenges in agriculture. The projects funded through our donation will enhance the university's leadership in global food systems and bio-security innovations and directly benefit producers and agri-businesses. We are proud to partner with Kansas State University in a shared mission of supporting agriculture and rural communities for today and tomorrow."

Contributors to this investment are Farm Credit of Western Kansas, Colby; High Plains Farm Credit, Larned; Frontier Farm Credit, Manhattan; and CoBank and American AgCredit, both in Wichita.

This investment supports the university's interdisciplinary research initiative, which brings together the

brightest minds from across the K-State campus to collaborate and work with agricultural leaders from the state and region.

"Our vision for our new infrastructure project is to create state-of-the-art space to bring many of our departments together for interdisciplinary research," said Ernie Minton, dean of the College of Agriculture and director of K-State Research and Extension. "The opportunities and challenges we face in agriculture are complex in nature and increasing in number globally. We need to bring the best minds to the table with different skills and knowledge to collaborate, integrate and develop innovative solutions that prepare the next-generation workforce to keep agriculture moving forward."

## Using a standard RGB camera and AI to obtain vegetation data

Aerial imagery is a valuable component of precision agriculture, providing farmers with important information about crop health and yield. Images are typically obtained with an expensive multispectral camera attached to a drone. But a new study from the University of Illinois and Mississippi State University (MSU) shows that pictures from a standard red-green-blue (RGB) camera combined with AI deep learning can provide equivalent crop prediction tools for a fraction of the cost.

Multispectral cameras provide color maps that represent vegetation to help farmers monitor plant health and spot problem areas. Vegetation indices such as the Normalized Difference Vegetation Index (NDVI) and Normalized Difference Red Edge Index (NDRE) display healthy areas as green, while problem areas show up as red.

"Typically, to do this you would need to have a near-infrared camera (NIR) that costs about \$5,000. But we have shown that we can train AI to generate NDVI-like images using an RGB camera at-

tached to a low-cost drone, and that reduces the cost significantly," says Girish Chowdhary, associate professor in the Department of Agricultural and Biological Engineering at U of I and co-author on the paper.

For this study, the research team collected aerial images from corn, soybean, and cotton fields at various growth stages with both a multispectral and an RGB camera. They used Pix2Pix, a neural network designed for image conversion, to translate the RGB images into NDVI and NDRE color maps

with red and green areas. After first training the network with a large number of both multispectral and regular pictures, they tested its ability to generate NDVI/NDRE pictures from another set of regular images.

"There is a reflective greenness index in the photos that indicates photosynthetic efficiency. It reflects a little bit in the green channel, and a lot in the near-infrared channel. But we have created a network that can extract it from the green channel by training it on the NIR channel. This means we

only need the green channel, along with other contextual information such as red, blue and green pixels," Chowdhary explains.

To test the accuracy of the AI-generated images, the researchers asked a panel of crop specialists to view side-by-side images of the same areas, either generated by AI or taken with a multispectral camera. The specialists indicated if they could tell which one was the true multispectral image, and whether they noticed any differences that would affect their decision making.

The experts found no observable differences between the two sets of images, and they indicated they would make similar predictions from both. The research team also tested the comparison of images through statistical procedures, confirming there were virtually no measurable differences between them.

Joby Czarnecki, associate research professor at MSU and co-author on the paper, cautions that this doesn't mean the two sets of images are identical.

"While we can't say the images would provide the same information under all conditions, for this particular issue, they allow for similar decisions. Near-infrared reflectance can be very critical for some plant decisions. However, in this particular case, it's exciting that our study shows you can replace an expensive technology with inexpensive artificial intelligence and still arrive at the same decision," she explains.

The aerial view can provide information that is difficult to obtain from the ground. For example, areas of storm damage or

nutrient deficiencies may not be easily visible at eye level, but can be spotted easily from the air. Farmers with the appropriate authorizations may choose to fly their own drones, or they may contract a private company to do so. Either way, the color maps provide important crop health information needed for management decisions.

The AI software and procedures used in the study are available for companies that want to implement it or expand the usage by training the network on additional datasets.

"There's a lot of potential in AI to help reduce costs, which is a key driver for many applications in agriculture. If you can make a \$600 drone more useful, then everybody can access it. And the information would help farmers improve yield and be better stewards of their land," Chowdhary concludes.

The Department of Agricultural and Biological Engineering is in the College of Agricultural, Consumer and Environmental Sciences and The Grainger College of Engineering at the University of Illinois.

The paper, "NDVI/NDRE prediction from standard RGB aerial imagery using deep learning," is published in Computers and Electronics in Agriculture [https://doi.org/10.1016/j.compag.2022.107396]. Authors include Corey Davidson, Vishnu Jaganathan, Arun Narenthiran Sivakumar, Joby Czarnecki and Girish Chowdhary.

This work was supported by the USDA National Institute of Food and Agriculture.

### Grass & Grain Weather Report

April 12, 2023

#### Seven Day Forecast

	<b>WEDNESDAY</b> Sunny High: 81 Low: 55
	<b>THURSDAY</b> Sunny High: 83 Low: 58
	<b>FRIDAY</b> Mostly Cloudy High: 82 Low: 55
	<b>SATURDAY</b> Mostly Sunny High: 80 Low: 56
	<b>SUNDAY</b> Sunny High: 78 Low: 51
	<b>MONDAY</b> Mostly Sunny High: 77 Low: 52
	<b>TUESDAY</b> Sunny High: 75 Low: 48

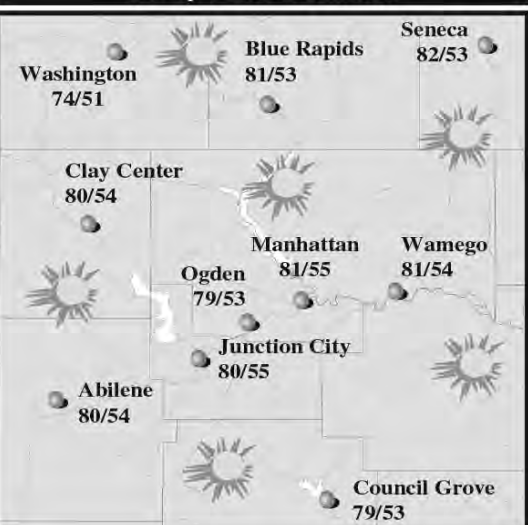
#### In-Depth Local Forecast

Today we will see sunny skies, high of 81°, humidity of 32%. South wind 15 to 19 mph. The record high for today is 89° set in 2014. Expect clear skies tonight, overnight low of 55°. South wind 18 mph. The record low for tonight is 22° set in 1997.

#### Last Week's Almanac

Date	Hi/Lo	Normals	Precip
3/31	69/38	62/36	0.00"
4/1	62/35	63/36	0.00"
4/2	80/50	63/36	0.00"
4/3	70/53	63/37	0.00"
4/4	89R/41	64/37	0.00"
4/5	54/30	64/38	0.00"
4/6	61/23	64/38	0.00"
Rainfall			0.00"
Normal rainfall			0.37"
Departure			-0.37"
Average temp.			53.9°
Average normal			50.1°
Departure			+3.8°

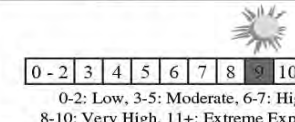
#### Today's Local Outlook



#### This Week's Sun & Moon Chart

Last	Day	Sunrise	Sunset	Moonrise	Moonset	First
4/13	Wednesday	6:54 a.m.	8:01 p.m.	2:25 a.m.	11:22 a.m.	4/27
	Thursday	6:53 a.m.	8:01 p.m.	3:20 a.m.	12:32 p.m.	
	Friday	6:51 a.m.	8:02 p.m.	4:06 a.m.	1:47 p.m.	
	Saturday	6:50 a.m.	8:03 p.m.	4:43 a.m.	3:03 p.m.	
	Sunday	6:48 a.m.	8:04 p.m.	5:14 a.m.	4:18 p.m.	
	Monday	6:47 a.m.	8:05 p.m.	5:42 a.m.	5:30 p.m.	Full 5/5
	Tuesday	6:45 a.m.	8:06 p.m.	6:07 a.m.	6:42 p.m.	

#### Local UV Index



#### Weather History

April 12, 1989 - Twenty-two cities in the south central and eastern United States reported record low temperatures for the date, including Elkins, W.Va. with a low of 15 degrees and Baton Rouge, La. with a reading of 37 degrees.

#### Growing Degree Days

Date	Degree Days	Date	Degree Days
3/31	3	4/4	15
4/1	0	4/5	0
4/2	15	4/6	0
4/3	11		

# Sell At St. Marys Tuesdays

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

**We sold 1596 cattle April 4. There was good demand for steer & heifer calves, weaned cattle selling steady to \$5.00 higher & unweaned selling steady to \$3.00 lower. Feeder steers & heifers were steady to \$3.00 higher. Cows and bulls sold \$2.00-3.00 higher.**

Item	Price	Item	Price	Item	Price
13 blk str	538 @ 273.00	5 blk/bwf hfrs	468 @ 217.00	1 blk cow	1630 @ 104.00
10 blk/bwf str	405 @ 267.00	5 blk hfrs	496 @ 217.00	1 bfw cow	1615 @ 103.00
4 blk str	450 @ 264.00	10 blk/red hfrs	494 @ 215.00	1 blk cow	1190 @ 101.00
5 blk str	428 @ 263.50	16 blk hfrs	507 @ 215.00	1 blk cow	1175 @ 100.00
10 blk str	483 @ 263.00	6 blk/red hfrs	418 @ 214.00	1 sim cow	1125 @ 99.00
4 blk str	426 @ 260.00	15 blk/bwf hfrs	489 @ 214.00	1 blk cow	1315 @ 98.00
14 blk str	530 @ 260.00	11 blk/red hfrs	519 @ 211.00	1 bfw cow	1355 @ 97.00
14 blk/red str	478 @ 259.00	10 blk/char hfrs	528 @ 207.00	1 blk cow	1350 @ 96.50
15 blk str	495 @ 259.00	21 blk hfrs	580 @ 208.00	2 blk cows	1148 @ 96.00
14 wf/bwf str	528 @ 255.00	4 blk hfrs	621 @ 205.00	1 blk cow	1318 @ 95.00
12 blk str	494 @ 251.00	4 blk/bwf hfrs	605 @ 202.00	1 blk cow	1450 @ 94.00
8 blk/bwf str	443 @ 250.00	3 blk/red hfrs	557 @ 199.00	1 bfw cow	1200 @ 93.00
5 blk bulls	298 @ 250.00	6 bfw/red hfrs	616 @ 196.50	1 blk cow	1145 @ 92.50
7 blk/bwf str	534 @ 245.00	8 blk/bwf hfrs	608 @ 195.00	2 bfw/red cows	1088 @ 91.50
6 blk str	543 @ 245.00	3 blk hfrs	563 @ 187.00	1 blk cow	1070 @ 91.00
11 blk/char str	502 @ 244.00	3 red/m hfrs	763 @ 183.00	1 sim cow	1265 @ 90.00
4 blk/bwf str	365 @ 242.00	19 blk/bwf hfrs	800 @ 183.00	1 blk cow	1340 @ 89.00
4 blk/bwf str	409 @ 242.00	37 blk hfrs	713 @ 182.50	1 bfw cow	1450 @ 88.00
7 blk str	452 @ 241.00	54 blk/bwf hfrs	758 @ 181.50	2 blk/bwf cows	1175 @ 87.00
4 blk/bwf str	390 @ 240.00	9 x-bred hfrs	647 @ 181.00	1 blk cow	1375 @ 86.00
4 blk/char str	518 @ 238.00	71 x-bred hfrs	811 @ 177.35	3 red/sim cows	917 @ 83.00
6 blk str	473 @ 235.00	<b>COWS &amp; HEIFERETTES</b>		1 blk cow	1108 @ 82.00
3 blk bulls	393 @ 235.00	1 blk hfrt	1040 @ 155.00	2 blk cows	1120 @ 79.00
10 blk str/bulls	455 @ 233.00	1 blk hfrt	1015 @ 152.00	2 blk cows	1188 @ 78.00
5 blk str	372 @ 231.00	1 bfw hfrt	1035 @ 148.00	1 bfw cow	1220 @ 77.00
5 blk str	445 @ 230.00	1 blk hfrt	950 @ 138.00		
3 blk/bwf bulls	502 @ 221.00	1 blk cow	1440 @ 132.00	<b>BRED COWS</b>	
4 blk bulls	514 @ 219.00	1 blk hfrt	1045 @ 131.00	1 blk cow	@ 1475.00
6 blk/char bulls	488 @ 215.00	1 blk hfrt	1060 @ 128.00	1 blk cow	@ 1450.00
3 blk bulls	502 @ 211.00	2 blk hfrts	1045 @ 125.00	2 bfw cows	@ 1325.00
6 x-bred bulls	437 @ 207.00	2 red cows	920 @ 124.00	1 blk cow	@ 1275.00
<b>STOCKER &amp; FEEDER STEERS</b>		1 red cow	895 @ 118.00	2 blk cows	@ 1200.00
21 blk/bwf str	578 @ 259.00	3 red cows	1005 @ 117.50	4 blk/red cows	@ 1185.00
6 blk str	552 @ 251.00	3 blk cows	938 @ 117.00	1 limo cow	@ 1025.00
		1 blk cow	1085 @ 107.50	2 blk/red cows	@ 950.00
		1 blk cow	1105 @ 106.00	2 blk cows	@ 850.00

**HEIFER CALVES**

Item	Price	Item	Price
7 blk hfrs	535 @ 235.00	1 blk cow	@ 1475.00
4 blk hfrs	376 @ 231.00	1 blk cow	@ 1450.00
4 blk hfrs	340 @ 230.00	2 bfw cows	@ 1325.00
3 blk/bwf hfrs	467 @ 227.00	1 blk cow	@ 1275.00
4 blk hfrs	348 @ 224.00	2 blk cows	@ 1200.00
6 blk/char hfrs	368 @ 224.00	4 blk/red cows	@ 1185.00
7 blk hfrs	465 @ 224.00	1 limo cow	@ 1025.00
8 blk/bwf hfrs	546 @ 223.00	2 blk/red cows	@ 950.00
4 blk hfrs	500 @ 222.50	2 blk cows	@ 850.00
6 blk/char hfrs	491 @ 222.00		
20 blk hfrs	484 @ 219.00		
11 blk/char hfrs	478 @ 218.50		

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

#### CONSIGNMENTS FOR TUESDAY, APRIL 11 2023:

- 10 blk cows, 5 yrs old-short solid w/January calves
- 13 blk cows with fall calves short solid mouth running back with Hereford bull 12/19-2/11, sires of calves will be sold separate
- 70 blk str & hfrs, 450-550 lbs., vaccinated
- 40 blk str & hfrs, 450-550 lbs., vaccinated
- 25 blk str & hfrs, 500-600 lbs., vaccinated
- 70 blk heifers, 700-750 lbs.
- 126 blk heifers, 800-825 lbs.
- 62 blk steers, 875-900 lbs.
- 60 blk char steers, 925-950 lbs.
- 62 blk steers, 875-900 lbs.
- 61 blk xbred steers, 900-925 lbs.
- 65 blk steers, 825-850 lbs.
- 60 blk Char steers, 875-900 lbs.

#### CONSIGNMENTS FOR TUESDAY, APRIL 18 2023:

- 50 blk red angus char cows 3-5 yrs old bred to angus char bulls for September-October calves
- 75 Red Angus str & hfrs, 400-500 lbs., vacc.
- 35 blk str & hfrs, 500-600 lbs., weaned, vacc.

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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