



# Schwieterman Market Outlook

A marketing commentary by Bret Crofts

The September supply and demand report didn't do the bull camp any good. The average trade guesses called for lower corn and soybean yield estimates, but USDA gave us higher numbers. The corn yield came in 1.4 bu/ac higher than last month at 169.9 bu/ac and the soybeans were up .5 bu/ac at 49.9 bu/ac. The bean estimate was higher than even the highest trade guess, making it a bit of a shock. Time will tell whether or not the yield estimates are correct, but for the moment analysts will be worried about the tendency to see higher yields in the October

supply and demand report following an increase in the September report and the tendency for the markets to make their normal seasonal lows in late September or early October.

On the bright side, we didn't see any new contract lows in the corn, wheat or beans and aside from the initial push lower in the corn and soybeans, we really didn't see much pressure. The December corn hasn't managed to take out the previous day's high since for a while, but it was only down 2 cents for the week and close higher than it did on report day.

It was an even better situation for the November soybeans, which closed 6 3/4 higher for the week and the December KW gained 4 1/2 cents. Both the wheat and soybeans made multi-week highs Thursday, which has many technical indicators either giving buy signals or they are close to it.

Going forward the major issues will be what the actual yields come back as and whether or not USDA raises the production estimates again in October. Corn and wheat ending stocks in particular are high enough that if we do see new contract lows, that could trig-

ger a wave of selling that pushes the markets much lower. The last time we had a corn stocks to use ratio that was this high was the 2005/2006 crop year and corn fell below \$2.00. We are in a different world now, but numbers like that make me nervous. The funds still have a lot of positions they could add to their net short positions, which is probably all the fuel it takes to really punish these markets. Right now I think that traders are waiting to see how the actual yields come out before making a decision on whether or not to sell more corn.

Cattle futures, and particularly the feeder cattle, had a good finish to the week. The September feeder futures reached the highest level in over a month thanks to strong auctions and a rising feeder cattle index. We haven't seen much bull spreading in the feeder market lately, but it finally showed up

late this week and that is a sign of good demand. In the October contract we have a great deal of resistance at the \$151 area and if we can work through that early in the week, it should be a quick trip to \$154.

As for the live cattle, the December contract made new multi-week highs Thursday, but the market has struggled to move far from the 50-day moving average. The December contract essentially had a solid week of consolidation and we just didn't quite have enough news to move the market out of the trading range. One could really make the case that the live cattle have run out of upward momentum and are ready to sell off. I hope it hasn't, but if we do break out to the downside, one should become an aggressive hedger.

Schwieterman Marketing, L.L.C. specializes in risk management and cash grain and livestock marketing plans.

For information on the markets or our marketing service you can contact Bret Crofts at 888-437-9131 or bret@swbell.net.

The information contained herein is based on data obtained from recognized statistical services and other sources believed to be reliable. However, we have not verified such information and we do not make any representations as to the accuracy or completeness. Past results are not necessarily indicative of future results. All statements contained herein are current opinions, which are subject to change. The risk of loss in trading commodity future contracts is substantial. You should therefore carefully consider whether such trading is suitable for you in light of your financial condition. Neither the information, nor any opinion expressed shall be construed as an offer to buy or sell any futures or options on futures contracts.

## MANHATTAN

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FOLLOWED BY STOCKER FEEDERS — 11:00 A.M.

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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

For our sale Friday, September 15, feeder steers and heifers sold fully steady on the kind offered. Unweaned calves were selling on a steady to weaker market especially on the calves with no shots. Cull cows and bulls sold \$2-\$4 lower.

### STEER CALVES — 325-550 LBS.

Florence	4 blk	362@205.50
Manhattan	4 blk	343@205.00
BLaine	6 Cross	384@197.00
Wamego	6 blk	393@196.50
Linn	5 blk	436@184.50
Linn	17 blk	505@175.50
Beattie	4 blk	448@173.00
Wamego	11 blk	521@172.50
Manhattan	4 blk	453@160.00

### STEERS — 550-1,000 LBS.

Vermillion	6 blk	555@180.00
Leavenworth	6 blk	628@171.00
Linn	32 blk	628@169.25
Leonardville	4 blk	647@166.50
Linn	26 blk	585@163.60
Manhattan	6 blk	663@158.00
Linn	20 blk	758@156.50
Leavenworth	3 blk	723@156.50
Manhattan	5 blk	694@156.00
Centralia	5 blk	551@155.00
Leonardville	3 blk	760@155.00
Clay Center	8 Cross	730@152.50
Leavenworth	63 Cross	872@149.10
Easton	3 blk	560@149.00
Mayetta	3 blk	830@147.00
Alma	4 blk	793@145.00
Frankfort	12 Cross	891@145.00
Manhattan	24 blk	927@143.50
Manhattan	9 blk	812@143.00
Auburn	3 blk	673@142.50
Dwight	3 Cross	860@142.50
Leavenworth	164 Cross	959@141.85
Dwight	3 Cross	783@137.50
Leavenworth	5 Cross	777@135.00
Dwight	3 Cross	980@131.50
Easton	4 blk	806@127.00

### HEIFER CALVES — 200-550 LBS.

Wamego	4 blk	406@178.00
Easton	3 blk	223@176.00
Florence	5 blk	333@176.00
Vermillion	12 blk	518@165.50
Leavenworth	3 blk	450@164.00
Wamego	8 blk	472@163.00
Blaine	4 Cross	395@162.00
Auburn	5 blk	527@161.00
Linn	4 blk	473@160.00
Leavenworth	3 blk	538@159.50
Linn	8 blk	513@155.00
Linn	6 blk	547@140.00

### HEIFERS — 550-975 LBS.

Harveyville	10 blk	645@156.00
Leonardville	4 blk	660@155.00

Alma	8 blk	657@154.50
Alma	7 blk	686@153.50
Axtell	3 blk	685@152.50
Manhattan	4 blk	612@152.00
Leavenworth	7 blk	672@152.00
Harveyville	3 blk	555@151.50
Alma	18 blk	725@150.25
Mayetta	8 blk	730@149.50
Wheaton	7 blk	744@149.50
Clay Center	4 Cross	657@149.50
Alma	3 bwf	663@149.00
Leavenworth	3 blk	726@146.50
Berryton	3 blk	711@146.50
Leavenworth	3 blk	725@145.00
Westmoreland	4 blk	572@140.50
Clay Center	3 Cross	755@140.00
Berryton	41 blk	878@135.25

### COWS & HEIFERETTES — 875-1,925 lbs

Leavenworth	1 Cross	900@120.00
Leavenworth	1 Cross	1015@101.00
Leavenworth	1 Cross	890@90.00
Olsburg	1 blk	1045@79.00
Westmoreland	1 blk	1195@75.00
Leavenworth	1 Cross	1070@70.50
Council Grove	1 blk	1185@69.50
Randolph	1 Cross	1145@66.50
White City	1 blk	1470@66.00
Council Grove	1 Char	1465@65.50
Easton	1 blk	1925@65.50
Easton	1 blk	1495@65.50
Randolph	1 Cross	1115@65.00
Manhattan	1 blk	1700@64.50
Mayetta	1 blk	1560@64.50
Easton	1 blk	1440@64.50
Wheaton	1 blk	1660@64.00
Leavenworth	1 Holstein	1635@63.50
Westmoreland	1 blk	1575@63.00
Leavenworth	1 Cross	1275@62.50
Easton	1 blk	1475@62.50
Easton	1 blk	1290@62.50
Wamego	1 blk	1450@62.00
Westmoreland	1 Cross	1430@61.50
Blaine	1 Cross	1370@61.50
Easton	1 blk	1480@61.00
Westmoreland	1 bwf	1430@60.50
Wheaton	1 blk	1755@60.50
Leavenworth	1 Cross	960@59.50
Olsburg	1 blk	1345@59.50
Easton	1 blk	1240@57.00
Leavenworth	1 Holstein	1100@56.00
Easton	1 blk	1265@55.50
Wamego	1 blk	1265@55.00
Winchester	1 Cross	1205@55.00
Alma	1 bwf	1245@55.00
Council Grove	1 Hereford	1375@53.00
Manhattan	1 Holstein	1335@52.50

### BULLS — 1,600-2,100

Onaga	1 blk	1740@83.00
St. George	1 Simm	1965@81.50

Wamego	1 Cross	1620@81.00
Manhattan	1 Simm	1630@81.00
Onaga	1 Cross	1915@79.00
Onaga	1 Cross	1785@79.00
Easton	1 blk	1860@79.00
Circleville	1 blk	2080@76.50

Olsburg	1 Heref	2	@1275.00
Council Grv	2 Heref	SS	@1250.00
Easton	1 blk	5	@1250.00
Easton	3 blk	SS	@1225.00

### BRED COWS

		AGE	MO	
Easton	1 blk	5	8	@1235.00
Clay Center	2 Heref	2-5	8	@1200.00
Alma	1 bwf	3	8	@1175.00
Easton	3 blk	6-7	8	@1125.00
Council Grv	2 Heref	3	4-5	@1060.00

### COW/CALF PAIRS

		AGE	
Council Grv	3 Heref	3-4	@1585.00
Council Grv	1 Heref	5	@1525.00
Olsburg	2 Heref	3	@1510.00
Olsburg	1 Heref	5	@1450.00
Council Grv	2 Heref	5	@1425.00
Council Grv	1 Heref	5	@1410.00

## EARLY CONSIGNMENTS FOR SEPT. 22

- 41 blk Angus X mostly str & hfrs, 1 rd shots, no implants, 650-750 lbs
- 28 blk & bwf hfrs, weaned Aug. 1st, 650-675 lbs

### SELLING AT 11:30 A.M.



- 45 OCV Angus bred hfrs, Nelson Angus Genetics, pelvic measured & bred to Conneally Ensure LBW bull for Oct.-Nov. calves
- 12 Angus 2nd calf OCV hfrs, 3 yrs, bred Nelson Hoover Dam Angus bull for Oct.-Nov. calves
- 22 red & mix cows, 5-10 yrs old, bred SimAngus for March calves

## EARLY CONSIGNMENTS FOR SEPT. 29

- 90 reputation Char Angus X str & hfrs, all pre-wean shots, 500-600 lbs
- 30 reputation blk str & hfrs, weaned, shots, 550-650 lbs
- 50 choice blk bwf str & hfrs, 400-550 lbs
- 10 choice blk bwf str & hfrs, 400-550 lbs



### SPECIAL COW SALE,

WED., OCT. 18<sup>th</sup> STARTING AT 11:00 AM



145 choice blk cows, 4 yrs to older with July-Sept. Angus and SimAngus x calves sired by Dalebanks Angus and Moser SimAngus bulls

If you have any consignments for this Special Sale, please give us a call so we may advertise them for you!

## CLINE CATTLE CO ANNUAL FALL BULL SALE

Monday, November 6<sup>th</sup> @ 6:00 P.M. • Held at MCC  
See page 23 of this weeks Grass & Grain for more info.

UPCOMING SPECIAL COW SALE DATES, 11 A.M.: Wed., Oct. 18; Wed., Nov. 15; Wed. Dec. 13

VISIT US ON THE WEB FOR DAILY CONSIGNMENT UPDATES AT [WWW.MCCLIVESTOCK.COM](http://WWW.MCCLIVESTOCK.COM)

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# Kansas Hay Market Report

Hay market activity slow; demand light to moderate for most classes of hay; prices steady. Since there is not a lot of hay moving, producers are keeping busy performing maintenance on equipment or in the fields either cutting silage, finishing up hay, or preparing to plant wheat. Many areas are really starting to need some rain, despite the fact that most of the state remains drought-free.

The bull's-eye of moderate drought remains centered in the middle of the state. However, according to the U.S. Drought Monitor, the abnormally dry (D0) category actually decreased to 32.94 pct, while moderate drought (D1) decreased to 16.69 pct. Alfalfa fourth cutting was 73 pct, ahead of 61 pct last year and well ahead of the 47 pct average. If you have hay for sale, and/or need hay here in Kansas, use the services of the Internet Hay Exchange: [www.hayexchange.com/ks.php](http://www.hayexchange.com/ks.php).

## Southwest Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse, small squares 240.00-250.00. Dairy, .80-.90/point RFV, Supreme 150.00-165.00, Premium 145.00-155.00, Good 125.00-145.00. Stock or Dry Cow alfalfa, 100.00-110.00. Fair/Good grinding alfalfa, 100.00-110.00 with an instance at 115.00. Ground and delivered locally to feedlots and dairies, 125.00-135.00, with instances at 145.00. The week of 9/3-9/9, 9,070T of grinding

alfalfa and 887T of dairy alfalfa were delivered.

## South Central Kansas

Dairy alfalfa, grass hay, alfalfa pellets, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse, small squares 7.50-8.50/bale, Dairy, .75-.85/point RFV. Supreme 140.00-150.00, Premium 130.00-145.00, Good 110.00-130.00. Stock cow alfalfa, 80.00-90.00. Fair/Good grinding alfalfa, 90.00-100.00. Ground and delivered locally to feedlots 115.00-125.00, with an instance at 130.00. The week of 9/3-9/9, 4,396T of grinding alfalfa and 665T of dairy alfalfa were delivered. Alfalfa pellets: Sun Cured 15 pct protein 150.00-160.00, 17 pct protein 155.00-165.00, Dehydrated 17 pct 192.00-202.00. Grass hay: none reported. Straw large squares 50.00-60.00.

## Southeast Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: horse or goat, 210.00-220.00. Dairy .75-.85/point RFV. Stock cow alfalfa 90.00-100.00 with an instance at 125.00-135.00. Fair/Good grinding alfalfa 75.00-85.00 with an instance at 90.00. Ground and delivered, 90.00-100.00. Grass hay: bluestem, premium small squares 105.00-120.00. Good, mid and large squares 85.00-95.00, large rounds 55.00-65.00. Brome: small squares 6.00-8.00/bale. Good, mid and large squares 100.00-120.00, large rounds 75.00-85.00. Oat hay, large squares 120.00-130.00. Straw, none reported. CWF grass mulch large squares 50.00.

## Northwest Kansas

Dairy alfalfa, grinding alfalfa, ground/delivered steady; movement slow. Alfalfa: small squares, horse quality none reported. Goat, 170.00-180.00. Dairy, Premium/Supreme

.80-.95/point RFV. Stock cow, fair/good 85.00-95.00. Fair/good grinding alfalfa, 65.00-75.00 with an instance at 85.00. Ground and delivered locally to feedlots and dairies, 90.00-100.00. Wheat hay large rounds 50.00 in the field.

## North Central-Northeast Kansas

Dairy alfalfa, ground/delivered, grinding alfalfa, grass hay steady; movement slow. Alfalfa: horse, none reported. Dairy .90-1.00/point RFV, Supreme 165.00-185.00. Premium 160.00-175.00, Good 140.00-160.00. Stock Cow, good 110.00-120.00. Fair/Good, grinding alfalfa, 80.00-90.00. Ground and delivered, 110.00-120.00. Grass hay: bluestem, small squares 5.00-6.00/bale, large squares 90.00-100.00, large rounds 60.00-70.00. Brome: Good, small squares 6.00-7.00/bale delivered, mid and large squares, 100.00-110.00, good large rounds 70.00-75.00. Straw, small squares, 4.00-5.00/bale, large squares 75.00-85.00, large rounds 60.00-70.00.

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

\*CWF Certified Weed Free

\*RFV calculated using the Wis/Minn formula.

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

Source: Kansas Department of Agriculture - Manhattan, Kansas. Kim Nettleton 785-564-6709. Posted to the Internet: [www.ams.usda.gov/mnreports/DC\\_GR310.txt](http://www.ams.usda.gov/mnreports/DC_GR310.txt)

# Herbicide rotation ineffective against resistance in waterhemp

Farmers have been battling herbicide-resistant weeds for generations. A common practice for most of that time has been to rotate between different herbicides every season. But despite farmers' best efforts, herbicide resistance has grown through the years, with some weed populations showing resistance to not one but four or five different herbicides. A new study from the University of Illinois explains why herbicide rotation doesn't work.

"If you were to ask farmers what is the one thing you can do to delay resistance evolution, they'll say rotate herbicides. This study shows that's not true," says Pat Tranel, Ainsworth Professor in the Department of Crop Sciences at U of I.

Herbicide resistance results from random genetic mutations that keep weeds from being harmed by a particular herbicide.

When farmers continually spray the same herbicide year after year, those with the mutation, referred to as a resistance allele, survive and reproduce. Over time, the proportion of plants with the resistance allele grows.

Conventional thinking says that any defense trait—in this case, herbicide resistance—should come at a cost to the plant. It might be well protected against the herbicide, but it might not grow as tall, or flower as early. When the trait reduces a plant's reproductive output, that's known as a fitness cost.

A fitness cost to herbicide resistance should be apparent in years when alternative herbicides are used. "If plants have glyphosate resistance, but they're sprayed with 2,4-D, for example, the majority of those plants will die because they're not resistant to 2,4-

D. But no herbicide kills 100 percent of the weeds, resistant or not," Tranel says. "You have to think about the small percentage that live."

"If there's a high fitness cost to the glyphosate resistance allele, most of the surviving plants will be small or will flower late and they won't produce many seeds. But if the fitness cost is low, those plants will produce just as many seeds as plants that don't have the allele. Herbicide rotation relies on the assumption that the fitness cost is high."

To test that assumption, Tranel and his research team designed a simple, if time-consuming, experiment. They took female waterhemp plants with no resistance alleles and allowed them to be pollinated by males with resistances to five different herbicides. Because female waterhemp plants can produce as many as a million seeds, it was easy to get the 45,000 they needed to start the experimental population.

They scattered seeds on the soil floor of a greenhouse and just let them grow. When females started producing seeds, they were collected to start the next generation. Between generations, the researchers removed all the plants and made sure no seeds remained in the soil. The cycle was repeated for

six generations over three years.

How could the study test the efficacy of herbicide rotation if no herbicides were sprayed? It comes back to fitness cost. Remember, the assumption is that without the herbicide, the resistance allele offers the plant no benefit, and could carry a cost. The researchers were allowing those fitness costs a chance to play out during the study.

"If the resistance alleles had a high fitness cost, we should have seen them decrease in frequency or disappear over the six generations," Tranel says. Instead, the alleles for almost all five resistance types were essentially unchanged.

The allele that confers resistance to ALS-inhibiting herbicides was statistically lower after six generations, but the decrease was tiny in terms of real numbers. "The frequency decreased by less than 10 percent a year," Tranel says. "At the rate it was decreasing, even if a farmer used an alternative herbicide for nine years, the frequency of resistance to ALS inhibitors would only be cut in half."

Waterhemp has two known strategies to ward off glyphosate-based herbicides, such as Roundup, and the researchers tested the frequency of both.

"Plants with one type of glyphosate-resistance mechanism make multiple copies of the target site for glyphosate, a gene called EPSPS. And that's what we found went away; the proportion of plants with multiple copies of EPSPS decreased about 15 percent with each generation," Tranel says. "But I want to emphasize something: even though it decreased quite a bit, it didn't disappear by any stretch. If you applied glyphosate, that resistance mechanism would come back even if you waited six years between applications."

The other glyphosate-resistance mechanism involves the same gene. This time, it's a specific mutation in the EPSPS gene that guards the plant against the effects of glyphosate. The researchers found that the mutation in EPSPS actually increased about 10 percent in each generation. Tranel thinks it may have been easier for one mechanism to

replace the other because they both involve the same gene.

"This study tells us that fitness cost isn't going to help you much in terms of herbicide resistance, so even long rotations aren't going to work," Tranel says. "I tell farmers, 'Once you have resistance, you're stuck with it.' It gives us that much more incentive to do the right things to avoid resistance in the first place. That means using multiple herbicides, using a PRE and coming back with a POST. If you have escapes, getting out of your tractor and getting rid of them before they set seed. Because if they set resistant seed, this study tells you that you will have that resistance trait for life."

The article, "Limited fitness costs of herbicide-resistance traits in *Amaranthus tuberculatus* facilitate resistance evolution," is published in *Pest Management Science*. Tranel's co-authors include Chenxi Wu and Adam Davis, from U of I. The study was supported by a grant from USDA NIFA (grant no. 2012-67013-19343).

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414 W. 2nd Street — ENTERPRISE, KANSAS

**OPEN HOUSE: SUNDAY, SEPTEMBER 24 — 2-4 PM**



1 1/2 Story, old style home, 1,373 sq. ft., 2 bedrooms, 1 bath, lot size 70'x140'.

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**TERMS & CONDITIONS:** Property selling in its present existing condition. 10% down of non-refundable earnest money and sign contract of sale. Balance due on or before October 20, 2017. Security 1st Title will be escrow and closing agent. All information given is from sources deemed reliable but not guaranteed. Property selling subject to easements and restrictions now existing. Potential bidders should satisfy themselves as to any inspections needed before sale day. Announcements made day of sale take precedence over printed matter.

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**JOE BLACK, BROKER**  
785-200-6300 - Office

**RON SHIVERS, Associate Broker & Auctioneer**  
785-479-6497 - Cell  
214 N. Cedar, Abilene, KS

## NASS to collect additional harvested acreage information

Many crops have been significantly impacted by Hurricanes Harvey and Irma and the subsequent flooding. USDA's National Agricultural Statistics Service (NASS) will collect harvested acreage information for a number of crops in affected states in preparation for the October Crop Production report. These additional data will help to better assess the full impact. If the newly collected data justifies any changes, NASS will publish updated harvested acreage estimates in the October 12 report.

When surveying for the October Crop Production report, harvested acreage information will be collected from producers in Alabama for Upland cotton, peanuts, and soybeans; in Florida for Upland cotton, peanuts, and soybeans; in Georgia for Upland cotton, peanuts, and soybeans; in Louisiana for corn, upland cotton, rice, sorghum, soybeans, and sugarcane; in South Carolina for Upland cotton, peanuts, and soybeans; and in Texas for corn, Upland cotton, alfalfa hay, other hay, rice, sorghum, and soybeans.

## K-14 CONSIGNMENT AUCTION

**SATURDAY, SEPTEMBER 30, 2017 — 9:00 AM**

Location is at the K-14 Auction Center, 10919 S K-14 Hwy, HUTCHINSON, KS 67501.  
6 miles South of the new Loves truck stop in South Hutchinson on Hwy 14.

**NOW TAKING CONSIGNMENTS** for Vehicles, Tractors, Farm and Livestock Equipment, Shop Tools, Lawn and Garden, Farm Primitives and Collectibles, Construction Supplies, Lumber, Windows and Doors, any farm related items with a cash value will be accepted.

**Watch next week paper for a complete listing or go to [morrisauctions.com](http://morrisauctions.com) for more info.**

**EARLY CONSIGNMENTS:** Pace Arrow Motor Home; 1963 JD 4010 (excellent cond); 1953 McCormick Super W4 Tractor (good); 1964 Farmall 706; 14' Krause Disc; Gravity Wagon; Grain Auger; 2 and 3 Bottom Plows; Bale spears; Montgomery

Ward Stationary Mill w/extra screens (collector pc); Livestock Equipment; Lawn and Garden; Building and Construction Supplies; Antiques and Collectibles; 2 Estate Auctions will be combined with this auction; Lots of Hand tools.

**Note:** This listing is only a small fraction of the items for this auction, as we are receiving consignments daily, we will be selling in 3 and maybe 4 locations all day, so bring a friend and spend a full day with us. Go to [auctionzip.com](http://auctionzip.com) for daily updates and photos

For more information contact Auctioneer Morris Yoder 620-899-6227 or [morris\\_yoder@yahoo.com](mailto:morris_yoder@yahoo.com)

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# U.S. beef exports stay red-hot in July; pork exports lower

U.S. beef exports remained well above last year's pace in July, posting one of the highest monthly export value totals on record, according to statistics released by USDA and compiled by the U.S. Meat Export Federation (USMEF). July pork export volume dipped below its year-ago level for the first time in 15 months, with export value also down slightly.

July beef exports totaled 104,488 metric tons (mt), up 5 percent year-over-year, while export value reached \$623.7 million – up 18 percent from a year ago and the highest since December 2014. For January through July, exports increased 11 percent in volume (711,364 mt) and 15 percent in value (\$3.97 billion) compared to the first seven months of last year.

Exports accounted for 13.2 percent of total U.S. beef production in July and 10.7 percent for muscle cuts only. These were the highest ratios of 2017, but down from 14.2 percent and 11 percent, respectively, last July. For January through July, beef exports accounted for 12.8 percent of total production and 10 percent for muscle cuts – roughly steady with last year. Export value per head of fed slaughter averaged \$299.21 in July, up more than \$35 (or 13 percent) from a year ago. Through July, per-head export value was up 9 percent to \$273.52.

Pork exports totaled 173,675 mt in July, down 4 percent year-over-year, valued at \$488.9 million, down 0.6 percent. January-July volume was still up 11 percent from a year ago to 1.43 million mt, while export value was up 13 percent to \$3.7 billion.

Exports accounted for 26 percent of total pork production in July (down from 27.5 percent a year ago) and 21 percent for muscle cuts only (down from 23 percent). For the first seven months of the year, with U.S. production at a record pace, the percentage of total production exported increased from 25.6 percent to 27.5 percent. For muscle cuts only, the increase was from 21.6 percent to 23 percent. Export value per head slaughtered in July was \$54.22 – up slightly from June but 3 percent below last July. The January-July per-head average increased 10 percent from a year ago to \$54.11.

“July was certainly a solid month, especially for

beef exports, but these results remind us that the U.S. red meat industry operates in an intensely competitive global environment,” said USMEF CEO Philip Seng. “At a time when some of our most essential trade agreements are under review, we must be mindful of how these agreements have helped make U.S. beef, pork and lamb more readily available and more affordable for millions of global customers, to the benefit of U.S. producers and everyone in the U.S. supply chain.”

## Beef export volume to Japan largest in four years; value highest of post-BSE era

Beef exports to leading market Japan totaled 27,689 mt in July, up 20 percent from a year ago and the largest since July 2013 – which was shortly after Japan increased the eligible U.S. cattle age to 30 months. July export value to Japan increased 36 percent to \$175.7 million, the highest monthly total since 1996. For January through July, exports to Japan were up 23 percent in volume (178,501 mt) and 29 percent in value (\$1.08 billion). USMEF's featuring of chilled beef in Japan continues to pay dividends as chilled exports were up 39 percent to 83,951 mt valued at \$613 million (up 40 percent). Driven by strong growth in Japan's foodservice industry, especially the gyudon beef bowl chains which heavily rely on U.S. short plate, U.S. frozen beef exports to Japan were up 12 percent to 64,928 mt (valued at \$250 million, up 18 percent). But Japan's frozen beef safeguard was triggered in late July, increasing the duty on frozen beef imports from suppliers without a trade agreement with Japan, including the U.S., from 38.5 percent to 50 percent. The impact of the safeguard is not likely to surface until the September export data is available. But since August, U.S. frozen beef has been at an even larger tariff disadvantage compared to Australian beef, which is subject to a duty rate of 27.2 percent under the Japan-Australia Economic Partnership Agreement.

Beef exports to South Korea dipped below the large volume of last July to 15,587 mt (down 5 percent), but were still the largest of 2017. July export value to Korea increased 8 percent from a year ago to \$101.7 million. Through July, exports to Korea increased 9

percent in volume (98,944 mt) and 19 percent in value (\$629.4 million), including an impressive 83 percent increase in chilled beef exports (22,432 mt) valued at \$199 million (up 88 percent). The U.S. is now the largest supplier of beef to both Japan and Korea on a value basis, with the U.S. share of Korea's imports increasing from 43 percent to 48.5 percent.

Other January-July highlights for U.S. beef exports included:

After a slow start in 2017, beef exports to Hong Kong continue to rebound. Exports were up 13 percent year-over-year in volume (65,379 mt) and 21 percent higher in value (\$417.8 million). July was the first full month for exports to China, as exports totaled 137 mt valued at \$1.3 million.

Beef exports to Taiwan increased 16 percent from a year ago in volume (24,234 mt) and 24 percent in value (\$215.5 million), including chilled beef exports of 9,883 mt (up 19 percent) valued at \$114 million (up 22 percent). U.S. beef holds more than 70 percent of Taiwan's chilled beef market, the highest share of any Asian destination.

Led by strong growth in Chile, Peru and Colombia, beef exports to South America increased 20 percent year-over-year in volume (16,159 mt) and 21 percent in value (\$63.2 million). Exports to Brazil, which launched in late April, reached 1,198 mt valued at \$3.2 million.

A strong performance in the Philippines, Indonesia and Vietnam fueled 79 percent year-over-year growth in export volume to the ASEAN region (23,376 mt), with value up 59 percent to \$114.1 million. This region is especially strong for beef variety meat exports, as volume reached 7,145 mt (up 176 percent) valued at \$12.5 million (up 164 percent).

Within North America, beef exports were fairly steady with last year as Mexico continues to be the second-largest volume destination for U.S. beef exports while Canada ranks fourth. Exports to Mexico increased 2 percent in volume (134,543 mt) but slipped 2 percent in value (\$544.8). Exports to Canada were up 1 percent in volume (68,097 mt) and 4 percent in value (\$475.7 million).

## July pork exports slip despite powerful growth in Mexico, Korea, South America

Pork exports to Mexico remained on pace for a sixth consecutive annual volume record, with July volume up 7 percent from a year ago to 58,625 mt and value increasing 9 percent to \$122.9 million. Through July, exports increased 20 percent in volume (457,190 mt) and 26 percent in value (\$854.4 million). Both the U.S. and domestic pork industries continue to reap the benefits of Mexico's rapidly growing per capita pork consumption, which has increased by about one-third over the past 10 years to 18 kilograms annually (based on USDA estimates).

Leading pork value market Japan saw a year-over-year decline in July, as exports dipped 7 percent in both volume (28,314 mt) and value (\$120.5 million). Through July, exports to Japan remained modestly higher year-over-year in both volume (228,489 mt, up 2 percent) and value (\$931.1 million, up 6 percent). This included chilled pork exports of 122,755 mt (down 3 percent) valued at \$577 million (up 3 percent), as Canada continues to compete strongly for Japan's high-value chilled pork market.

Other January-July highlights for U.S. pork exports included:

In South Korea, pork exports continued to capitalize on strong red meat consumption growth, especially for convenience products and home meal replacement items, as exports to Korea climbed 30 percent in volume (103,142 mt) and 36 percent in value (\$282.6 million).

Led by strong growth in Colombia and Chile, pork exports to South America more than doubled year-

over year in both volume (56,345, up 104 percent) and value (\$143.6 million, up 109 percent). The White House recently announced that Argentina will soon open to U.S. pork, adding further opportunities in this growing region.

Led by Honduras, exports to Central America are on a record pace, reaching 38,720 mt, up 6 percent from a year ago, valued at \$92.4 million (up 8 percent). 2017 is also shaping up as a record year for pork exports to the Dominican Republic, where exports totaled 21,278 mt (up 42 percent) valued at \$47.8 million (up 49 percent).

Strong growth in the Philippines fueled a 24 percent increase (to 26,710 mt) in pork exports to the ASEAN region, valued at \$68.8 million (up 34 percent). Exports also increased to Singapore and were steady to Vietnam.

In the China/Hong Kong region, July exports dropped significantly from a year ago to 32,167 mt (down 33 per-

cent) valued at \$68.8 million (down 27 percent). July variety meat exports were the smallest in 18 months at 22,960 mt (down 10 percent). As China's domestic pork production continues to rebound in 2017, January-July exports to the region were 8 percent below last year's pace in volume (306,404 mt) but slipped just 1 percent in value (\$627.1 million).

## Lamb exports lose momentum in July

U.S. lamb export volume in July was below last year's level at 593 mt (down 13 percent) while value was fairly steady at \$1.48 million. Through July, lamb exports were down 13 percent from a year ago in volume (4,348 mt) but increased 8 percent in value to \$11.1 million. For lamb muscle cuts only, January-July exports were up 13 percent in volume (1,264 mt) and 18 percent in value (\$7.7 million) including year-over-year growth to Mexico, Central America, the Caribbean and Canada.

## NEW STRAWN CONSIGNMENT AUCTION SATURDAY, SEPTEMBER 23 — 9:00 AM

Hwy. 75 South end of NEW STRAWN, KANSAS  
Food by Kansas City Backyard BBQ • LARGE SALE!

**Partial listing:** Tractors: JD: 4440, 506 hrs; Kubota BX 2200, ldr & mower 506 hrs; Kubota L2950 4x4; IH: 544, H; AC: WC; Ford: 600, 8N; Ldrs: GB 800, JD 46; JD Combine: 8820 w/920 flex & Kilbros hdr trlr; JD 653A row head; Skid Steers: 1993 Bobcat 773 dsl, JD 240 dsl; Farm Equipment: JD 3800 2 row Cutter 30" & pkup hd (good); NH3 Applicators: Case IH 5300, DMI 4250; Planters: Agco 6342 12 row, JD 1240 plateless; New Idea 205 manure spreader PTO; Gehl 65MX Grinder/mxr; Supreme 400 vertical mxr Feed Wagon w/scales (very good) Haybaster Bale Processor (very good); Drills: Krause no till 5215 (nice); IH 510, IH 16 hole w/grass seeder; JD 13 hole w/grass seeder; Wilmar 50 ft, Fert Sprdr; Small Kent 2 wheel Sprdr; BMB 6R Danish Cult; Field Cuts: JD 1010, Kent 34 ft Ser. V; IH 12, JD 3pt 16"; Chisels 12-18"; Wheel Disks 12-18"; Plows; 15 ft Servis Batwing Mower; Hay Equipment: MacDon 9330 SP Swather 18"; Sitrex 8 wheel rake & cart (very good); Disc Mowers: Krone: 400, DMD: 2050; Round Balers: Hesston 550, NH 7060, Vermeer: Rebel 5450, 604L, 605 Super F, C; Twin Rake R23B; 2-479 NH Haybines; 144 NH Windrow turner; 224 wire JD Sq. baler; 259 NH Rake; Sickle Mowers: 2 Ford 515 3 pt, JD 9; Lots of good small 3 pt disc, blades, rotary mowers, plows, finish mowers, cultivators, garden equipment, etc; Continuous fence

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**KUEHN FARM AUCTION**  
**SATURDAY, SEPTEMBER 23, 2017 — 9:30 AM**  
LOCATION: 17104 S Obee Rd — HAVEN, KANSAS 67543. From Haven, KS take Arlington Rd West to Obee Rd, then South to location.

**VEHICLES, BOATS & TRACTORS:** 1972 GMC Grain Truck, 15' bed with Dual Hyd Lift and 102k miles; 1971 Chevrolet Pickup (as is); IH 986 Diesel w/approx. 7k Hours, 18.4x38 Duals and Dual Hyd; Case 930 LP Comfort King w/approx. 6k Hours; 1980 W-W 5x16 Stock Trailer (new floor); 1975 StarCraft 15' Boat; StarCraft 18' Flat Bottom Boat (as is); Pickup Bed Camper.

**FARM EQUIPMENT:** 1979 IH 1460 Combine, approx. 1350 Hrs w/1981 24' Header and Milo Guards (good condition); JD 336 Small Square Baler (twine-good cond.); JD 20 Hole M60694 Drill; JD 494A 4 Row Planter; JD 650 8' Blade; JD 7' Sickle Mower-3 pt; Krause 12' and 16' Chisel; 18' Heavy Duty Disc; IH 24' Springtooth; Hesston 9' Swather; JD 3-14 Plow; 2 Case 4-16 Plows; Case 5-14 Plow; JD 8 Row Rotary Hoe; 2 Section Harrow; 18' Drag Springtooth; 30' Bale Elevator; Old Fanning Mill; New Idea Side Delivery Rake; Frame for 1 Way Plow; Old Thresh Machine Frame; 3x14 Steel Wheel Wagon; 3 Hay Wagons; 4-Round Bale

Trailer; 12' 5" Grain Auger; 3 pt Post Hole Digger; Bale Spear; Powr Kraft Riding Mower (as is); Lots of Implement Tires.

**FARM SUPPLIES:** Lincoln AC/DC Arc Welder; Metal Shelving; 2 Round Bale Feeders; 300 gal Propane Tank; Oil Cans; Cattle Panels; Cement Blocks; Fuel Tanks; Electric Fencing Supplies; Hedge Posts; Chain Link Fencing; Large Iron Pile; Old Bikes; Craftsman 10" Table Saw; Craftsman 10" Drill Press; Chain Hoist; Jet Water Pumps; Wooden and Alum Ladders; Wagon Tongues; Shop Vac; Old Auto Parts; Plastic Water Pipes; Camping Gear; Patio Chairs; Bench Grinder; Live Traps; Log Chains; Shop Lights; Hyd Jacks and Cylinders; Steel Wheels; Air Compressors; Coulters; Chisel Sweeps; Bolt Bin (loaded); Socket Sets; Open and Boxend Wrenches; Pipe Wrenches; Organizers; Misc Doors and Oak Lumber; Copper Tubing and Misc Plumbing Supplies; Clevis and Hitch Pins; Lots of Hand Tools.

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# 2017 Kansas Energy Conference to highlight latest developments in renewable energy

Registration is open for the 2017 Kansas Energy Conference, which will be held Sept. 26 and 27 in Wichita. The 2017 conference is co-sponsored by the Kansas Department of Commerce and the Clean Energy Business Council.

The Kansas Energy Conference will highlight the latest developments in the state's renewable energy sector, focusing on how technology will accelerate the move to a clean energy economy and the role that Kansas can play to lead this transition. The day-and-

half conference will feature three general sessions and several breakout sessions focusing on public sustainability programs, wind, solar, green efficiency programs, renewable energy storage, and oil and gas.

Speakers for this year's conference include Greg Greenwood, Senior Vice President of Strategy for Westar Energy, Jeff Glendenning, State Director for Americans for Prosperity (Kansas Chapter), and JR Tolbert, Vice President of State Policy for Advanced Energy Economy.

A new optional offering this year is a Pre-Conference Wind Farm Tour, enabling conference attendees to experience wind energy production up-close. For a nominal fee, attendees will participate in an engaging tour of the Kingman Wind Energy Center.

Another bonus with this year's conference is a post-conference Distributed Generation Workshop, ideal for those who are unable to attend the full conference. This workshop will kick off the Clean Energy Business Council's "Around the

State" initiative, which will include a total of four community workshops aimed at increasing exposure about market opportunities in renewable energy within Kansas. The workshop is free to conference attendees and available to others for a nominal cost.

The conference will be held September 26, 8:30 a.m.-4:45 p.m., and September 27, 8:00 a.m.-noon at the DoubleTree by Hilton Wichita Airport, 2098 S. Airport Road in Wichita. Exhibits will be open from 9:45 a.m.-6 p.m. on September 26 and

8:00 a.m.-noon on September 27. A reception is planned from 4:45 p.m.-6 p.m. on September 26. The Pre-Conference Wind Farm Tour will be held on Monday, September 25, from noon-4:00 p.m., while the Post-Conference Distributed Generation Workshop will be held Wednesday, September 27, from noon-5:00 p.m.

SPONSORS: Next Era Energy, Polsinelli, Tradewind Energy, Apex Clean Energy, Cromwell Solar, Distributed Energy Association, EDF Renewable Energy, EDP Renewables NA, Foley Power

Solutions, Grain Line Express Clean line, ITC Great Plains, Kansas Soybean Commission, Midwest Energy, MC Power, NEC Energy Solutions, Olsson Associates, Stanion Wholesale Electric Company, Stantec Consulting Services, Westar, Wilson & Company.

REGISTRATION INFO: The deadline for conference registrations is September 20. A complete itinerary and online registration is available through the Kansas Energy Conference web page at [KansasCommerce.gov/EnergyConference](http://KansasCommerce.gov/EnergyConference).

Call us for Catalogs, Sale Flyers, Magazines, Calendars, Brochures, Books, Newspapers and ask for Sandra



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SATURDAY, SEPTEMBER 23, 2017 — 9:00 AM  
627 Market Street — PORTIS, KS

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## Enrollment for youth steer profitability competition opens

The American Simmental Association (ASA) invites youth beef enthusiasts to participate in the 2017-2018 Steer Profitability Competition (SPC). The SPC provides meaningful exposure to opportunities and challenges associated with cattle feeding through a contest to gauge the overall profitability of a given steer or pen of steers in a commercial setting. All steers are marketed on a grade and yield basis. The SPC challenges participants, ranging in ages from 8 to 21, to measure and compare the profitability of their own animal(s), through electronic

monthly meetings, lectures, essays, and reports.

Any steer born between January 15 and April 15, 2017 is eligible for this fall's SPC herd. There is no breed requirement for entry, but the animal must have one parent on file in the ASA database of any breed composition. Juniors are encouraged to retain ownership on spring steer calves for entry into the SPC; entries are due September 29, 2017.

Last year, 31 beef industry youths, enrolled 66 cattle from nine different states. During their involvement, they were introduced to peers, mentors, industry

advocates, and experiences that are usually rare for any beef producer. Participants in the SPC program will be influential voices as they transition from junior membership to adult participation within the beef industry.

This year, steers will be fed at University of Missouri Beef Research & Teaching Farm in Columbia, Mo., with risk management and consultation provided by Chappell Feedlot. A GrowSafe System will track each animal's feed intake, and monthly weights and billing will detail specific expenses per head. In addition,

a monthly newsletter will highlight SPC details, industry news, and steer performance.

Gaining first-hand cattle feeding experience, working with professionals and mentors in the cattle industry, and learning how to make cost-effective decisions are a handful of the opportunities that many young cattlemen and cattlemen do not normally encounter. The SPC provides a hands-on platform for juniors to integrate their knowledge into real-world scenarios. For more information go to [www.junior-simmental.org](http://www.junior-simmental.org).

## Taiwan Goodwill Mission pledges to purchase five million tons of U.S. corn

Members of the 2017 Taiwan Agricultural Goodwill Mission pledged Wednesday to purchase 5 million metric tons (197 million bush-

els) of U.S. corn and 500,000 tons of U.S. distiller's dried grains with solubles (DDGS) between 2018 and 2019. The commitment was made

during a signing ceremony at the U.S. Capitol in Washington, D.C.

The members of the Goodwill Mission also signed letters of intent to purchase soybeans and wheat. The biennial team is part of a long-term effort to strengthen economic ties between Taiwan and the United States.

"The U.S. Grains Council (USGC) has worked in Taiwan for more than four decades and has watched Taiwan grow into one of our largest customers," said Deb Keller, USGC chairman and a corn farmer from Iowa. "The Goodwill Mission helps us maintain a healthy trading relationship with Taiwanese buyers and end-users by providing continued confidence in the U.S. market."

Prior to the official ceremonies, the corn representatives of the Goodwill Mission visited the farm of Chip Councill, USGC past chairman, on the Eastern Shore of Maryland. Councill participated in the Wednesday signing ceremony on behalf of the Council and U.S. corn producers, with Keller in Southeast Asia for a Council-sponsored regional trade summit.

The Taiwanese delegation was also honored this week in Washington at a reception with government officials and representatives of the agriculture industry, sponsored jointly by the Council, U.S. Wheat As-

sociates, the U.S. Soybean Export Council (USSEC), the North American Export Grain Association (NAEGA) and the National Grain and Feed Association (NGFA).

Following the events in D.C., corn members of the Goodwill Mission will travel to Iowa, Indiana and Missouri to sign letters of intent with those states' governors, tour farms and elevators and meet with local producers, agriculture groups and policymakers.

Taiwan is an important market for U.S. agricultural products, particularly U.S. grains. Taiwan is the fifth largest market for U.S. corn. Thus far in the 2016/2017 marketing year (September-July) Taiwan has purchased 2.91 million tons (114.5 million bushels) of U.S. corn, the highest sales in the last seven marketing years. Taiwan also ranks as the third largest buyer of U.S. barley in 2016/2017.

The Goodwill Mission has been organized by Taiwan's Ministry of Foreign Affairs (MOFA) every other year since 1998 and allows Taiwanese participants to gain familiarity with U.S. coarse grains' yield, production and quality. The Goodwill Mission also provides education on the advantages of U.S. coarse grains and co-products as well as re-confirms the commitment by the United States to serve as a long-term, reliable supplier for Taiwan.

## PERSONAL PROPERTY AUCTION

SATURDAY, SEPTEMBER 23, 2017 — 9:00 AM  
CLAY CENTER, KANSAS  
AUCTION LOCATION: 1210 18th Road or Hwy. 24 across from Clay Center Airport

VEHICLE (12 PM): 2002 Mercury Sable LS, 24V DOHC, 49,800 mi, always shedded, excellent cond.  
See Page 13 this first section for more info & last week's Grass & Grain for listings!

SELLER: ELIZABETH ANN LEE

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# BLACK ink

## Use your head

By Miranda Reiman

Many have bought or otherwise taken ownership of a "fixer-upper." Maybe it wasn't love at first sight, but you saw the potential and had a few ideas going in.

That's how it was when we bought an old farmhouse, then spent most of the last decade trying to update it.

Progress seems slow, as everything takes cash. Even the simplest improvements, like a couple of cans of paint and new flooring can easily stretch beyond \$1,000 and I won't even get into the budget for our complete kitchen remodel.

When it comes to home improvements, you can't

make quick progress without a large investment.

In the cattle business, there are lots of things that would fall into that category, like putting in a new line of feed bunks for backgrounding pens or expanding acreage. But not everything that increases profit takes a bank loan or dipping into reserves.

Think about genetic selection and bull power. You're going to invest in something to keep the calves coming each year, but the same money can fall short or supercharge progress in traits like carcass quality and feed efficiency. The difference mostly comes down to an outlay of a free resource: brain power.

I suppose I've always known this. Pulling up to a ranch visit, I make no correlation between condition of outbuildings and expectations for the herd I'm about

grazing. For those with little to no moisture this past summer, even a little regrowth might be better than what a drought-stressed pasture is producing right now, making grazing pretty attractive as well. While I won't say that it can't be done successfully, doing so will take some careful management on the part of the grazer so that longer-term damage doesn't occur.

Without adequate energy reserves in the root system going into winter dormancy, plants can lose winter hardiness and can have the green up process slowed come spring time. So while it may appear that there is plenty of green growth out there right now, it doesn't take much removal to put the plant in to a deficit again. Grazing (or taking a second cutting of hay) this fall has to be done with extreme caution. At all times, the stand should have at least four to six inches of green growth - with even more preferred. Harvesting below a four-inch level means that the plant not only has to respond to the

harvest of photosynthetic area, but depletes root reserves to do so. If adequate time and rest isn't given to replenish those root reserves, the stand can be compromised.

If in doubt, stay out! Fall grazing without adequate recovery time before our first killing frost can do long-term damage to the cool-season grass stand. There are certainly species differences to consider as well (fescue tends to be more tolerant to heavier grazing than does brome grass or native species during this time of the year), but all grasses need recovery time so that stand reductions are avoided. Before turning cows out, do a thorough walk-through of the area to be grazed, using a ruler or other measuring device to determine the average grass height. If it's not tall enough, try to find an alternative. If regrowth has been good, grazing might be okay, but should be done with extreme caution to avoid removal of forage growth needed to help next year's stand.

## The effects of late season usage on cool season grasses

By David Hallauer, Agent, Meadowlark Extension District, Crop and Soils, Horticulture

You don't have to travel very far from east to west or north to south across northeast Kansas to find huge differences in soil moisture levels. It's easy to see the effects of moisture levels not only on our field crops, but on forage crops as well.

As we head in to mid-September, cool-season grasses are responding to cooler temperatures with increased growth in preparation for winter dormancy. Photosynthesis via green plant leaves produces energy that is transported to roots to maintain the plant through the winter and initiate green up when conditions are right next spring. Our management now, therefore, has a lot to do with how plants will grow and produce next year!

For those in areas with adequate moisture, you might be looking out at a hay field that appears to have recovered well from summer harvest and think it might be a good time for some

## Airline industry could fly thousands of miles on biofuel from a new promising feedstock

A Boeing 747 burns one gallon of jet fuel each second. A recent analysis from researchers at the University of Illinois estimate that this aircraft could fly for ten hours on bio-jet fuel produced on 54 acres of specially engineered sugarcane.

Plants Engineered to Replace Oil in Sugarcane and Sweet Sorghum (PETROSS), funded by the Advanced Research Projects Agency - Energy (ARPA-E), has developed sugarcane that produces oil, called lipidcane, that can be converted into biodiesel or jet fuel in place of sugar that is currently used for ethanol production. With 20 percent oil - the theoretical limit - all the sugar in the plant would be replaced by oil.

"Oil-to-Jet is one of the direct and efficient routes to convert bio-based feedstocks to jet fuel," said Vijay Singh, director of the Integrated Bioprocessing Research Laboratory and professor in the Department of Agricultural and Biological Engineering at U of

I. "Reducing the feedstock cost is critical to improving process economics of producing bio-jet fuel. Lipidcane allows us to reduce feedstock cost."

This research analyzed the economic viability of crops with different levels of oil. Lipidcane with 5 percent oil produces four times more jet fuel (1,577 liters, or 416 gallons) per hectare than soybeans. Sugarcane with 20 percent oil produces more than 15 times more jet fuel (6,307 liters, or 1,666 gallons) per hectare than soybeans.

"PETROSS sugarcane is also being engineered to be more cold tolerant, potentially enabling it to be grown on an estimated 23 million acres of marginal land in the southeastern U.S.," said PETROSS director Stephen Long, Gutsell Endowed Professor of Plant Biology and Crop Sciences at the Carl R. Woese Institute for Genomic Biology at U of I. "If all of this acreage was used to produce renewable jet fuel from lipid-cane, it could replace

about 65 percent of national jet fuel consumption."

"We estimate that this biofuel would cost the airline industry \$5.31 per gallon, which is less than most of the reported prices of renewable jet fuel produced from other oil crops or algae," said Deepak Kumar, postdoctoral researcher in the Department of Agricultural and Biological Engineering at U of I and lead analyst on the study.

This crop also produces profitable co-products: A hydrocarbon fuel is produced along with bio-jet fuel or biodiesel that can be used to produce various bioproducts. The remaining sugar (for plants with less than 20 percent oil) could be sold or used to produce ethanol. In addition, biorefineries could use lipidcane bagasse to produce steam and electricity to become self-sustainable for their energy needs and provide surplus electricity, providing environmental benefits by displacing electricity produced with fossil fuels.

to see. A brand new pickup does not mean anything in terms of cattle genetics.

But it became crystal clear this spring as I visited with a cattleman who had two and half times more premium Choice qualifying cattle in just three years' time after taking over the family herd. Primes went from zero to 35% of the steer crop.

"We did this all with \$13 straws of semen," he told me. Later the rancher remarked on his bargain-priced, used squeeze chute and how the heifer development pens also double for growing steers.

The biggest expenditure came in the form of study. Researching the traits of value, consulting sire catalogs, visiting with those who had made the kind of prog-

ress he wanted to achieve.

You have to make hay while the sun shines, and it's easy to notice the shed that needs shingles or change the tractor oil on schedule while you put off that reading, thinking and debating for another day. You need to make it a priority on your to-do list.

Sometimes the consulting and studying can show areas where you would be ahead to spend more money. Maybe a discount vaccination program costs you more than you're saving. Maybe that cull salebarn bull set your genetic improvement back more than you thought.

Improvement does not necessitate across-the-board increases in expenditures.

Focused analysis can

also show the places where you're currently overspending. Maybe you could find a cheaper alternative feedstuff or a reliable, used piece of equipment instead of new.

To make gains in performance or carcass quality, in mothering ability or calf health, or any number of areas you're looking at, you may just have to schedule some time to study.

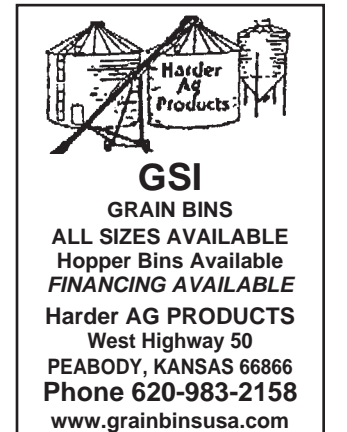
Brain power could be your most valuable resource.

Next time in Black Ink® Steve Suther will look at transitions and planning. Questions? E-mail mreiman@certifiedangusbeef.com.



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**SELL HOGS 1ST & 3RD**  
**WEDNESDAY OF EVERY MONTH**  
9/13/17

COWS		BULLS		STEERS		HEIFERS	
Wilsey, 1 blk	1255@66.00	Lincolville, 1 red	1125@55.50	Hillsboro, 3 bwf	495@174.00	Lincolville, 25 blk	1037@130.00
Ramona, 1 red	1515@64.50	Lincolville, 1 red	1200@55.50	Lost Springs, 2 Char	513@171.00	Lincolville, 6 mix	459@147.00
Bnrr Sprngs, 1 red	1750@64.50	White City, 9 blk	758@139.50	Marion, 24 mix	674@161.75	Lincolville, 9 mix	558@146.25
Gypsum, 1 blk	1495@64.00	Wilsey, 1 blk	1810@87.00	Ramona, 5 bwf	652@161.50	Lincolville, 13 blk	712@145.25
Bnrr Sprngs, 1 red	1470@64.00	Council Grove, 1 red	1840@85.00	Lehigh, 2 Char	538@157.00	Ramona, 6 blk	560@145.00
Tampa, 1 red	1720@64.00	Hope, 1 red	1885@85.00	Lost Springs, 7 mix	656@155.50	Lehigh, 5 mix	429@145.00
Lost Springs, 1 Char	1775@63.50	Gypsum, 1 blk	1655@80.50	Hillsboro, 2 blk	533@155.00	Herington, 52 mix	776@143.50
Bnrr Sprngs, 1 red	1525@63.50	Tampa, 1 blk	2040@80.50	Herington, 18 mix	767@154.75	Hope, 3 blk	690@143.00
Ramona, 1 Char	1540@63.50	Tampa, 1 blk	995@80.00	Lost Springs, 3 blk	652@154.50	Ramona, 14 blk	676@143.00
Chapman, 1 blk	1375@62.50	Lincolville, 1 red	1490@59.50	Herington, 20 mix	770@154.00	Hope, 50 mix	772@141.00
Sedgwick, 1 blk	1385@61.50	Burdick, 1 blk	1205@58.50	Ramona, 184 mix	801@151.75	Lost Springs, 5 blk	613@140.00
Wilsey, 1 blk	1355@61.00	Sedgwick, 1 blk	1375@58.50	Marion, 16 mix	806@150.85	Council Grove, 2 mix	663@140.00
Lost Springs, 1 blk	1450@60.00	Lost Springs, 1 blk	1230@57.50	Abilene, 60 blk	841@149.75	White City, 4 blk	608@140.00
Lincolville, 1 red	1285@60.00	Ramona, 1 red	1410@57.00	Hillsboro, 3 blk	652@149.00	Herington, 62 blk	832@139.25
Wilsey, 1 blk	1505@60.00	Hope, 1 blk	1275@57.00	Herington, 18 mix	714@149.00	Herington, 62 mix	837@138.75
Tampa, 1 blk	1390@59.50	Sedgwick, 1 blk	1035@56.50	Lost Springs, 20 mix	770@154.00	Council Grove, 2 wf	515@138.50
Tampa, 1 red	1325@59.50	Lincolville, 1 rmf	1320@56.50	Ramona, 184 mix	801@151.75	Herington, 10 blk	848@137.75
Lincolville, 1 red	1490@59.50	Tampa, 1 blk	1460@56.00	Marion, 16 mix	806@150.85	Lincolville, 4 blk	885@130.25
Burdick, 1 blk	1205@58.50	Lost Springs, 1 Char	1460@56.00	Abilene, 60 blk	841@149.75	Herington, 17 mix	934@124.25
Sedgwick, 1 blk	1375@58.50	Lincolville, 1 rvf	1230@56.00	Hillsboro, 3 blk	652@149.00	Lincolville, 23 blk	1018@120.00
Lost Springs, 1 blk	1230@57.50	Ramona, 1 bmf	1550@55.50	Herington, 18 mix	714@149.00		
Ramona, 1 red	1410@57.00	Tampa, 1 blk	1455@55.50	Hope, 64 red	820@147.25		
Hope, 1 blk	1275@57.00	Sedgwick, 1 blk	1205@55.50	Ramona, 8 bwf	798@147.00		
Sedgwick, 1 blk	1035@56.50	Sedgwick, 1 blk	1155@55.50	Lincolville, 8 blk	774@145.00		
Lincolville, 1 rmf	1320@56.50	Lost Springs, 1 blk	1060@55.50	Hope, 63 mix	865@145.00		
Tampa, 1 blk	1460@56.00			Hope, 120 mix	847@144.85		
Lost Springs, 1 Char	1460@56.00			Lincolville, 60 mix	885@144.25		
Lincolville, 1 rvf	1230@56.00			Hope, 12 mix	855@143.50		
Ramona, 1 bmf	1550@55.50			Gypsum, 120 mix	892@143.35		
Tampa, 1 blk	1455@55.50						
Sedgwick, 1 blk	1205@55.50						
Sedgwick, 1 blk	1155@55.50						
Lost Springs, 1 blk	1060@55.50						

**CONSIGNMENTS FOR SEPTEMBER 20:**

- 62 mostly blk strs 825-850 lbs
- 60 strs & hfrs mix, all blk home raised, long time weaned, all shots 600-750 lbs
- 115 mostly blk strs 925-950 lbs
- 350 mostly blk strs, 850-900 lbs, straight off grass
- 125 all blk strs 925 lbs right off grass
- 30 all blk hfrs home raised, all shots, long time weaned, 775 lbs
- 40 all blk strs home raised, all shots, long time weaned, 850 lbs
- 18 blk & Char hfrs home raised, long time weaned, all shots 775 lbs
- 120 mostly blk strs 900 lbs
- 60 mostly blk hfrs 850 lbs
- 55 mix hfrs straight off grass 800-900 lbs

**MORE CATTLE BY SALE TIME!**

**EARLY CONSIGNMENTS FOR SEPT. SHEEP/GOAT SALE**

- 90 hd wf lambs, one iron home raised lambs raised right & very fancy, 75-105 lbs
- Dozen feeder kids, 38-55 lbs
- Replacement billies from papered stock, fancy & ready to work
- Pkg of bf & speck fat lambs, home raised
- 100 head 70 lb wf & hair wether lambs
- 25-35 #1 hair replacement ewe
- Package of cull ewes

**NEXT SHEEP & GOAT SALE THURSDAY, SEPT. 28 @ 6:30**  
**CLAY TOEWS- Sheep/Goat Sale Mgr. • 620-747-0843**

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## New KUHN Krause Interceptor™ 8050 offers high-speed tillage

The Interceptor 8050 is KUHN Krause's high-speed tillage solution for controlling troublesome, chemical resistant weeds and a whole lot more. Developed to provide a clean width of cut, the Interceptor 8050 provides growers with a smooth seeded floor and a level surface for accurate seeding. A single row of heavy-duty, adjustable, 30" tines are mounted directly behind the front row of 32-flute Excalibur® CT (Conservation Tillage) blades forcing "airborne" material downward toward the field surface. This begins the soil

leveling process and aids in evenly distributing residue ahead of the transport wheels, rear blades and the proven Star Wheel™ treader rear attachment. No daily grease maintenance features, along with speed of operation can improve operator productivity. Designed for growers who prefer a high-speed tillage product with a more aggressive nature, the Interceptor 8050 can meet expectations.

Two parallel rows of 22" diameter x 32-flute Excalibur CT shallow concavity blades size and evenly distribute tough residue into

the worked soil profile. A 6-bolt hub mount secures each Excalibur CT blade to individual blade arms formed with compound angles to direct soil and residue flow from the Excalibur CT blades. A high-speed tillage pass with the Interceptor controls stubborn, chemical resistant, young weed growth.

The Interceptor high-speed tillage system has the potential to increase the adoption of higher planting speeds in both conventional and conservation tillage systems. Adjustable, constant-flow hydraulic wing

down pressure allows the KUHN Krause Interceptor to maintain consistent soil penetration across the working width, while operating at higher field speeds; a first step toward accurate planter seed placement. Additional standard features include: no daily grease maintenance bearings for the Excalibur CT blades, walking beam pivots, wing fold and wheel lift pivots, plus Star Wheel treader gangs and 24/7® HD conditioning reels. The Interceptor is available in 20', 25', and 30' sizes.

### Wheat crop had lower protein levels

(AP) - A report shows Kansas farmers harvested a winter wheat crop this year that had lower than usual protein levels.

The report issued by the National Agricultural Statistics Service and Kansas Grain Inspection Service showed protein content averaged 11.6 percent. That is down from 11.7 percent last year as well as the ten-year average of 12.5 percent.

Wheat crops with protein levels of 12 percent or more fetch premium prices for farmers because that higher quality wheat is used to make bread. The protein in flour is what gives it strength when mixed with water and yeast, allowing the bread to rise better for fluffier loaves.

The average test weight in Kansas was 60.5 pounds per bushel.

About 67 percent of the crop was graded No. 1, the highest rating.

# Farmers & Ranchers

## AUCTIONS EVERY MONDAY & THURSDAY

### Selling Hogs & Cattle every Monday

RECEIPTS FOR THE WEEK TOTALED 4,029 CATTLE AND 77 HOGS.

STEERS		HEIFERS	
300-400	\$197.00-\$209.00	91 mix	Assaria 833@151.35
400-500	\$180.00-\$194.50	53 blk	Abilene 947@150.35
500-600	\$169.00-\$183.00	22 blk	Salina 905@150.00
600-700	\$159.00-\$172.00	38 mix	Abilene 980@142.00
700-800	\$148.00-\$166.25	2 mix	Randolph 1020@135.75
800-900	\$142.00-\$157.00	153 mix	Abilene 1040@135.50
900-1,000	\$139.00-\$153.85		
HEIFERS		HEIFERS	
300-400	\$167.00-\$180.00	1 blk	Lyons 350@180.00
400-500	\$163.00-\$177.00	4 mix	Abilene 394@178.50
500-600	\$151.00-\$165.00	7 blk	Inman 381@178.00
600-700	\$141.00-\$156.00	11 blk	Wilson 405@177.00
700-800	\$147.00-\$153.00	2 red	Salina 383@172.00
800-900	\$130.00-\$142.75	5 blk	Inman 470@171.00
900-1,000	\$119.00-\$133.50	3 mix	Abilene 442@170.00
		22 blk	Dorrance 550@165.00
		6 blk	Osborne 523@162.00
		6 mix	Courtland 532@160.00
		20 blk	Beloit 577@157.00
		8 blk	Osborne 622@156.00
		13 blk	McPherson 638@154.50
		34 blk	Beloit 643@154.25
		4 blk	Wakefield 743@153.00
		12 blk	Concordia 651@152.00
		7 blk	Wakefield 655@152.00
		4 blk	Concordia 721@148.00
		9 blk	Beloit 721@147.50
		6 mix	Beloit 770@145.00
		12 blk	Wells 805@142.75
		7 blk	Minneapolis 796@142.00
		13 blk	Durham 803@135.00
		5 blk	Canton 834@135.00
		17 mix	Enterprise 824@134.50
		6 blk	Salina 929@133.50
STEERS		SOWS	
5 blk	Inman 364@209.00	2 mix	Marion 668@35.00
3 blk	Wilson 352@203.00	5 mix	Abilene 542@31.50
9 blk	Wilson 423@194.50	HOGS	
2 blk	Towanda 458@185.00	12 fats	Lindsborg 296@38.50
13 blk	Wilson 507@183.00	2 fats	St. Marys 283@38.00
8 blk	Sedgwick 516@181.00	3 fats	Manchester 283@38.00
4 blk	Osborne 540@175.00	4 fats	Abilene 273@37.75
4 blk	Towanda 516@173.50	2 fats	Marquette 295@37.00
39 blk	Sedgwick 608@172.00	CALVES	
11 blk	Sedgwick 610@170.00	5 str	Gypsum 223@650.00
39 blk	Dorrance 657@170.00	1 str	Inman 300@625.00
11 blk	Galva 573@168.00	1 str	Abilene 260@585.00
37 blk	Beloit 622@167.50	1 str	Gypsum 215@525.00
9 blk	Towanda 584@167.00	1 hfr	Salina 285@510.00
7 blk	Mount Hope 629@167.00	1 hfr	Gypsum 200@460.00
21 mix	Dorrance 709@165.25	1 str	Abilene 105@400.00
6 blk	Inman 607@165.00	1 hfr	Tampa 85@310.00
10 blk	Marquette 760@163.50		
4 blk	Wakefield 776@163.00		
50 mix	Beloit 712@158.00		
14 mix	Ada 745@157.75		
62 blk	Marquette 852@157.00		
10 blk	Walls 815@156.75		
49 blk	Hillsboro 718@156.50		
54 mix	Abilene 872@156.10		
13 mix	Shawnee 742@156.00		
46 mix	Ada 858@154.00		
45 mix	Salina 848@154.00		
49 blk	Abilene 900@153.85		
102 mix	Abilene 815@153.75		
50 mix	Marquette 914@153.50		
59 blk	Lindsborg 888@153.10		
7 blk	Inman 800@153.00		
73 mix	Abilene 889@152.85		
5 mix	Beloit 848@151.50		

### IN STOCK TODAY:

- Heavy Duty Round Bale Feeders
- 6'8" X 24' GOOSENECK STOCK TRAILER METAL TOP
- 6'8" X 24' GOOSENECK STOCK TRAILER
- 6'8" X 24' GR Stock Trailer Metal Top

For information or estimates, contact:

**Mike Samples, Sale Mgr., Cell Phone 785-826-7884**  
**Kyle Elwood, Asst. Sale Mgr., Cell Phone 785-493-2901**

Jim Crowther  
785-254-7385  
Roxbury, KS

Lisa Long  
620-553-2351  
Ellsworth, KS

Cody Schafer  
620-381-1050  
Durham, KS

Kenny Briscoe  
785-658-7386  
Lincoln, KS

Kevin Henke  
H: 785-729-3473, C: 785-565-3525  
Agenda, KS

Austin Rathbun  
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Cattle Sale Broadcast Live on [www.cattleusa.com](http://www.cattleusa.com) 1150 KSAL, Salina 6:45 AM - MON-FRI \*\*\*\*\* 880 KRNV 8:40 AM - WED.-THURS. \*\*\*\*\*550AM KFRM - 8:00 am, Wed.-Thurs.

## Livestock Commission Co., Inc. Salina, KANSAS

### SALE BARN PHONE: 785-825-0211

#### MONDAY — HOGS & CATTLE

Hogs sell at 10:30 a.m. Cattle at 12:00 Noon. Selling calves and yearlings first, followed by Packer cows and bulls.

#### THURSDAY — CATTLE ONLY

Selling starts at 10:00 a.m. Consign your cattle as early as possible so we can get them highly advertised.

#### — AUCTIONEERS —

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For a complete list of cattle for all sales check out our website [www.fandrive.com](http://www.fandrive.com)

#### SPECIAL COW SALES

Tuesday, September 26

Tuesday, October 24

Tuesday, November 21st

\* Buffalo Sale: Saturday, December 2

#### SPECIAL CALF SALES

Tuesday, October 17

Tuesday, October 31

Tuesday, November 7

\*Weaned/Vacc Sale: Tues., Dec. 5

#### COWS

1 red	Lindsborg	1575@66.50
1 blk	Ellsworth	1415@65.50
1 ywf	Barnard	1620@65.50
2 blk	Barnard	1435@65.50
1 red	Moundridge	1590@65.50
1 red	Abilene	1535@65.00
1 red	Claffin	1125@65.00
1 blk	Ellsworth	1540@64.50
1 blk	Salina	1555@64.00

1 blk	Ellsworth	1280@64.00
1 blk	Ellsworth	1455@64.00
1 blk	Barnard	1500@64.00

#### BULLS

1 blk	Chase	1925@84.50
1 blk	Jewell	2090@94.50
1 char	Jewell	2080@91.50
1 red	Barnard	1970@85.00

### EARLY CONSIGNMENTS FOR THURSDAY, SEPTEMBER 21, 2017:

- 75 black steers, 1 round vacc., homeraised, 500-600 lbs.
- 80 black steers & heifers, homeraised, long time weaned, vacc., 650-850 lbs.

PLUS MORE BY SALE TIME!

### EARLY CONSIGNMENTS FOR SPECIAL COW SALE TUESDAY, SEPTEMBER 26, 2017:

- 62 black bwf, red, bred to Ohlde Angus & Olen Hereford, 3-5 yrs old, fall calvers
- 15 cows, 5 & older, black, spring bred, bred to black bulls
- 25 black cows, 3-7 years, bred to Mill Brae bulls, spring calvers
- 50 fall bred cows, 3-8 years old, bred to black bull

PLUS MORE BY SALE TIME!

### FALL CLASSIC HORSE SALE Saturday, October 14, 2017

### COLT SALE Sunday, October 15, 2017

Check our listings each week on our website at [www.fandrive.com](http://www.fandrive.com)

# CLASSIFIEDS

**CLASSIFIED AD DEADLINE IS 10:00 A.M. FRIDAY**

**RATES AND DISCOUNTS**

**CLASSIFICATIONS**

Although complete name, address and phone number need not appear in your ad, we must have this information for our records.

Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**WRITE YOUR AD HERE**



**FIGURE YOUR COST HERE:**

RATE: 65¢ a word.

Number of words: \_\_\_\_\_ @ 65¢ each

Cost for one week: \_\_\_\_\_

Multiply one-week cost times number of weeks you want ad to run.

Run ad \_\_\_\_\_ consecutive weeks.

Category: \_\_\_\_\_

Cost for \_\_\_\_\_ weeks: \_\_\_\_\_

**DISCOUNTS:** (with cash or credit card orders only)  
deduct 10% if ad runs 2 or 3 weeks;  
deduct 25% if ad runs 4 weeks.

Less discounts: \_\_\_\_\_

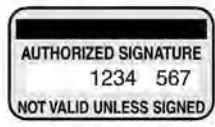
**TOTAL: \$** \_\_\_\_\_

**PAY WITH (PLEASE CIRCLE ONE):**

CHECK **MASTERCARD** VISA **DISCOVER**

Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

V-Code \_\_\_\_\_ (required) last 3 digits (see sample: 567) located on the back of your credit card on the signature panel.



Signature: \_\_\_\_\_

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- SWINE
- HORSES
- FERTILIZER
- FEED & SEED
- AUTOMOTIVE
- REAL ESTATE
- SERVICES
- IRRIGATION
- HARVESTING
- LIVESTOCK OTHER
- LIVESTOCK EQUIPMENT
- BUILDINGS-BUILDING MATERIALS
- BINS - DRYERS - VACS
- MOBILE HOMES
- SPRAY EQUIPMENT
- BUSINESS OPPORTUNITIES
- WELDING
- MISCELLANEOUS
- GOAT
- SHEEP
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- PASTURE
- WANTED
- PETS

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**MACHINERY**

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- 2016 MF 4610 Deluxe Cab 4WD tractor/ 12x12 Power Shuttle, 100 eng. hrs, 99 HP, MF931X factory ldr/ joystick pkg w/ grill guard. Still in warranty till 8/21/18 or 8/21/19?? (purchased 8/21/16, excellent cond.) Stk#5500, consigned.. \$44,900
- 1990 Case IH 5120 cab tractor, approx. 6,000 eng. hrs, 16x16 power shuttle, stk#5757.....\$18,000
- 2003 Hesston 956 round baler, twin & mesh wrap, monitor, 4,000 bales, exc. cond., shedded, low use, stk#5267.....\$19,900
- 2015 MF 3710 spreader 175 bushel, lightly used. Stk#3480 consigned.....\$9,500
- Sunflower 4311 Disc Ripper, 7 shanks, 14', stk#4096 consigned.....\$5,900
- White 2-62 FL forklift, High lit, extra good condition, Reverse-O-Torc 6 Cyl. diesel, few hours on overhaul, stk#2250..\$6,500
- E-Z Trail GC37 header transport, red, 37', lights, brakes, straps. stk#2303 New in stock
- Challenger 660 (2007), 2,840 hrs/1880 sep hrs. Field Star, 18.4 x 42 duals, lateral tilt, Var

speed feeder house, RWA, chaff spreader, new bearings & sprockets in feeder house, new feeder house chain & unloading augers 2 yrs ago. stk #2236.....\$74,900
- Sunflower 6333-31 land finisher, excellent condition, lightly used, w/6 row high residue spike drage. Stk#1865.....\$39,900
- 2013 MF 2170XD, 15,700 bales, C1000 monitor, moisture sensor, roller chute, bale weight kit, stk#1552, 0% For 36 Month Financing.....\$69,900
- Central States DBS2000 Bale Spear, one owner, lightly used on Hobby Ranch, excellent cond., Stk# Consigned.....\$500
- Michelin Agribib Radial tire set. Pair: 380/90 (14.9) R46 R1W on rims for Cast Centers (no Centers) Pair: 380/85R30 R1W on Waffle Wheels off of 2013 MF 7615 w/765 hrs.....\$3,900
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 '89 Case IH 1020 25'  
 '94 Case IH 1020 20'  
 '94 Case IH 1063 cornhead  
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**Abilene**  
**Rodeo gives**  
**donation for**  
**local cancer**  
**patients**

The Wild Bill Hickok  
 Rodeo in Abilene will make  
 a donation of \$3,424 to a can-  
 cer organization.

The Elsie Brooks Me-  
 morial Fund of Dickinson  
 County is the recipient of the  
 funds, which were collected  
 from fans during the rodeo's  
 annual Tough Enough to  
 Wear Pink campaign, held on  
 Friday, August 5.

For the past ten years,  
 the rodeo has held "pink"  
 night, collecting donations  
 from fans that go to the fund,  
 which benefits those with  
 cancer in Dickinson County.

Elsie Brooks, an Abilene  
 resident who passed away  
 in 1988, bequeathed some  
 of her estate to the fund,  
 which is used for expenses  
 for cancer patients. Board  
 members meet with poten-  
 tial recipients, to deter-  
 mine how best to help them;  
 money is given to help with  
 anything from transporta-  
 tion to nutritional supple-  
 ments and things insurance  
 doesn't cover.

Cancer patients in  
 Dickinson County are in a  
 unique situation, said Chris  
 Ostermann, president of the  
 Memorial Fund. There is no  
 place to get cancer treat-  
 ment in the county, so pa-  
 tients have to travel to Man-  
 hattan, Salina, or farther.  
 "If you're going to chemo  
 treatments every day for six  
 weeks, that takes a toll on  
 finances," she said.

Since the Memorial Fund  
 began in 1993 it has given  
 out over \$250,000. Last year,  
 135 recipients received help  
 through the Fund.

The rodeo is the Memori-  
 al Fund's biggest fundrais-  
 er, Ostermann said. "Peo-  
 ple know the association  
 between the rodeo and the  
 fund. They come, ready to  
 give, before they even enter  
 the grandstand."

Since the rodeo began  
 hosting its Tough Enough  
 to Wear Pink night and giv-  
 ing funds to the Memorial  
 Fund, over \$31,000 has been  
 raised.

Next year's Wild Bill  
 Hickok Rodeo is August 1-4,  
 2018. More information can  
 be found at www.WildBill-  
 HickokRodeo.com.

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**New research downgrades**  
**colorectal cancer risk**

The World Cancer Re-  
 search Fund and the Ameri-  
 can Institute for Cancer Re-  
 search issued their Contin-  
 uous Update Project report  
 for Colorectal Cancer, Diet,  
 nutrition, physical activity  
 and colorectal cancer. The  
 report is an ongoing analy-  
 sis of the global research on  
 how diet, nutrition, physical  
 activity and weight affect  
 cancer risk and survival.

The new report recom-  
 mends limiting red meat  
 and avoiding processed  
 meat; however, Dr. Shalene  
 McNeill, executive director,  
 nutrition research for the  
 Beef Checkoff, says there is  
 a growing body of evidence  
 that shows the association  
 between red meat and col-  
 orectal cancer risk is weak  
 and weakening over time,  
 and this report actually  
 highlights that.

"The report identified 13  
 studies on colorectal cancer  
 incidence that compared  
 high versus low intakes of  
 red meat. None of the stud-  
 ies found statistically signif-  
 icant associations, meaning  
 they can't rule out chance  
 or confounding factors, such  
 as total diet and lifestyle,"  
 McNeill said. "It is import-  
 ant to note that in categoriz-  
 ing colorectal cancer risk,  
 the report downgraded the  
 strength of the evidence on  
 red meat from their 2010  
 report from 'convincing' to  
 'probable'."

McNeill went on to say  
 the fact remains that a sin-  
 gle food alone does not  
 cause cancer, and reducing  
 cancer risk requires life-  
 style changes like eating a  
 well-balanced diet, exer-  
 cising and maintaining a  
 healthy weight.

**Forest service wildland**  
**fire suppression costs**  
**exceed \$2 billion**

U.S. Secretary of Agricul-  
 ture Sonny Perdue has an-  
 nounced that wildland fire  
 suppression costs for the  
 fiscal year have exceeded  
 \$2 billion, making 2017 the  
 most expensive year on re-  
 cord. Wildfires have ravaged  
 states in the west, Pacific  
 Northwest, and Northern  
 Rockies regions of the Unit-  
 ed States this summer. As  
 the Forest Service passed  
 the \$2 billion milestone,  
 Perdue renewed his call for  
 Congress to fix the way the  
 agency's fire suppression ef-  
 forts are funded.

"Forest Service spending  
 on fire suppression in re-  
 cent years has gone from  
 15 percent of the budget  
 to 55 percent - or maybe  
 even more - which means  
 we have to keep borrowing  
 from funds that are intend-  
 ed for forest management,"  
 Perdue said. "We end up  
 having to hoard all of the  
 money that is intended for  
 fire prevention, because  
 we're afraid we're going to  
 need it to actually fight fires.  
 It means we can't do the pre-  
 scribed burning, harvesting,  
 or insect control to prevent  
 leaving a fuel load in the  
 forest for future fires to feed  
 on. That's wrong, and that's  
 no way to manage the Forest  
 Service."

Currently, the fire sup-  
 pression portion of the For-  
 est Service budget is funded  
 at a rolling ten-year aver-  
 age of appropriations, while  
 the overall Forest Service  
 budget has remained rela-  
 tively flat. Because the fire  
 seasons are longer and con-  
 ditions are worse, the ten-  
 year rolling fire suppression  
 budget average keeps rising,  
 chewing up a greater per-  
 centage of the total Forest  
 Service budget each year.  
 The agency has had to bor-  
 row from prevention pro-  
 grams to cover fire suppres-  
 sion costs. Perdue said he  
 would prefer that Congress  
 treat major fires the same  
 as other disasters and be  
 covered by emergency funds  
 so that prevention programs  
 are not raided.

"We've got great people  
 at the Forest Service and  
 great procedures and pro-  
 cesses in place," Perdue  
 said. "We can have all of that  
 - the best people, the best  
 procedures, and the best  
 processes - but if we don't  
 have a dependable funding  
 source in place, then we'll  
 never get ahead of the curve  
 on fighting fires."

This fiscal year, Congress  
 appropriated additional  
 funding above the ten-year  
 average - almost \$1.6 bil-  
 lion total - to support Forest  
 Service firefighting efforts,

but even that amount has  
 not been enough. With three  
 weeks left in the fiscal year,  
 the Forest Service has spent  
 all of the money Congress  
 appropriated for fire sup-  
 pression, which means the  
 agency has borrowed from  
 other programs within its  
 budget to meet this year's  
 actual fire suppression  
 costs.

Continuous fire activity  
 and the extended length of  
 the fire season is driving  
 costs. At the peak of Western  
 fire season, there were three  
 times as many uncontained  
 large fires on the landscape  
 as compared to the five-year  
 average, and almost three  
 times as many personnel as-  
 signed to fires. More than  
 27,000 people supported  
 firefighting activities during  
 peak Western fire season.  
 The Forest Service has been  
 at Preparedness Level 5, the  
 highest level, for 35 days  
 as of September 14, 2017.  
 Approximately 2.2 million  
 acres of National Forest sys-  
 tem lands have burned in  
 that time.

"We are breaking records  
 in terms of dollars spent,  
 acres of National Forest  
 land burned, and the in-  
 creased duration of fires,"  
 said Forest Service Chief  
 Tony Tooke. "Our firefighters  
 are brave men and women,  
 who risk their own lives to  
 protect life and property.  
 We must give them every  
 opportunity to do their jobs  
 effectively through better  
 management of the forests  
 in the first place."

Both Perdue and Tooke  
 have traveled recently to  
 areas of the country besieged  
 by wildfires. Secretary  
 Perdue visited Mont-  
 ana with Interior Secretary  
 Ryan Zinke near the end of  
 August, receiving an assess-  
 ment from Forest Service  
 personnel on the ground at  
 the Lolo Peak Fire. Chief  
 Tooke was in Oregon earli-  
 er in September, when he  
 visited firefighters, commu-  
 nities, and local and state  
 decision-makers. Perdue  
 said he wants to embrace  
 Good Neighbor Authority,  
 which permits contracting  
 with states to perform wa-  
 tershed restoration and for-  
 est management services in  
 National Forests.

"We are committed to  
 working together, with fed-  
 eral, state, and local offi-  
 cials, to be good stewards  
 of our forests," Perdue said.  
 "We want to make Good  
 Neighbor Authority more  
 than just a slogan. We want  
 to make it work for our for-  
 ests, so that they work for  
 the taxpayers of America."



# Beef lessons from dairy conceptions

By Justin Sexton, Ph.D., director of supply and development, Certified Angus Beef

You've heard that the key to beef quality could lie in making sure a calf never has a bad day. A paper in *Journal of Dairy Science* adds validity—and before you quit reading because the work didn't come from the beef side, think for a minute about the dairy cow. She's a model of uniform genetics and focused selection with little nutritional limit to gene expression. She can serve as a great model to evaluate environment for all cows, independent of genetics and nutritional resources.

Contrast that to the beef cow with variable genetics selected for multiple traits and often limited by her nutritional environment. These diverse conditions are why the debate rages on about ideal cow size and milk production level.

The dairy researchers in Florida and Colorado set out to see how the season of a heifer's conception influences her later productive life. As you look at a pen of replacement beef heifers and judge their genetics, individual performance and disposition, this dairy study adds another variable. We often evaluate the expression of traits without considering the cause of the expression, but this work highlights the environment's role.

This fall, many of you will look at that heifer pen and try to decide whether to keep or cull some late-born female. We know the early-born heifer is more productive over a lifetime, but now we see that could be partly because she was conceived during a time of less environmental stress.

Dairy Herd Improvement Association records across 12 years on more than 667,000 lactations were used to evaluate the influence of season of conception on subsequent productivity. This could make you think about "fetal programming" or gestational nutrition and the importance of maternal diet on quality—but laying that aside, this research demon-

strates that the season and environmental conditions at conception will influence milk production, reproductive efficiency and herd longevity.

These dairy scientists concluded that cows conceived during the summer heat (July to September) were less productive than those conceived in the winter (December to February).

Heifers conceived during the winters were younger at first calving by nine days. In a beef production system, shortening days to first calving may not be possible due to group management, but this data suggests the dairy heifers conceived during cooler temperatures were either earlier to puberty or more reproductively efficient.

The "cool heifers" not only calved sooner but also returned to estrus after their first calf earlier than those conceived during summer. Interval to first re-breeding were six and four days shorter after the first and second calf, respectively, but season of conception didn't affect reproductive performance of older cows.

Quicker returns to estrus following calving translated into a comparable reduction in days to conception for first- and second-calf heifers. These reproductive benefits were realized despite a 3.5% increase in first-lactation milk production by heifers conceived in winter. That increase moderated as heifers aged, but the second- and third-parity cows conceived in the winter produced about 1% more milk throughout lactation.

Heifers conceived in winter were 1.15 times more likely to make it to the second calving and not be culled for reproductive failure. Remember, that's in addition to greater milk production.

How can we incorporate this into a beef production system where local environment and the goal of a set calving season drive decisions? Gone now is the chance to modify the 2017 breeding plan to avoid the worst summer heat, but the decision on whether to retain a heifer conceived

during last summer's heat is imminent.

To review, beef cattle research showed many years ago that heifers born early in the calving season are more productive. Years later and thanks to our colleagues in dairy science, we discover productivity may be related to the timing of weather not only at birth but at conception.

We continue to learn more each day about how the environment influences the genetic framework we develop. While we may not understand how it can influence each gene, we do know that overcoming a genetic deficit is a challenge. Now that you have something else to think about when building your herd, keep in mind that simple approach to beating average quality: do all you can to ensure each calf never has a bad day.

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**CLASSIC CARS, TRUCKS:** 1961 Ford F-100 Custom Cab pickup 223 6-cylinder w/351 Cleveland in bed of truck.

**CRANE:** FMC Link Belt Eighty Series mod.HSP-8018 18-ton carrier mounted hydraulic crane serial # 47H1-575 17 ft outrigger spread 8 ft wide carrier 60 ft main boom 20 ft fly will demo sale day.

**SEMI TRACTORS, TRUCKS, TRAILERS, TRUCK PARTS:** 1993 Timpte 48' Super Hopper trailer 65,000 GVWR \* 1996 IHC 8100 Series semi-tractor 6-cylinder Cummins diesel, 9-speed, tandem axle, twin screw, good AC, runs & drives, good condition \* 1974 Western Star cab/chassis, 6-cylinder GMC diesel, good motor, 4x4 air shift transmission, tandem axle, twin screw, live power crankshaft pump, transmission PTO wet kit w/3 spool control valves in cab, Hendrickson suspension on pads, power steering, drives good \* 25-ton Mov-All HD equipment trailer, hydraulic winch, side extensions, folding & extending tailgate, hydraulic landing gear \* Rice Trailer tandem axle flatbed trailer, 18' wood deck, beavertail w/ramps, rear stabilizing jacks \* tandem axle flatbed trailer 18' x 7' metal deck with ramps \* 1977 International Paystar 5000 dump truck, 3208 CAT engine, Allison Auto transmission, power steering, twin screw, 16' bed w/36" sidewalls \* 1965 Dodge 500 farm truck w/15' metal floor dump bed \* 2-horse tandem axle trailer \* small 2-wheeled trailers \* semi-tractor wind deflector \* aluminum truck saddle tank \* (2) Freightliner 150 gal saddle tanks \* (2) Freightliner drive axles \* metal cabinet \* truck hubs \* air tanks \* steering box \* air pump.

**FRONT LOADER, SKID STEER EQUIPMENT:** Caterpillar 966C wheel loader, 9' 3-cubic yard bucket, like new rubber, 23.5R25 (new cost \$1800/tire) \* asstd used skid steer tires, about half on rims \* Sweepster broom sweeper \* pr skid steer tracks \* skid steer 6'6" blade hydraulic pivot.

**TRACTORS, IMPLEMENTS:** 1975 International 1066 tractor 8627 hrs w/Farmhand loader/8' bucket & cab, AC works, new tires, rear wheel weights, runs good (drove in from Minneapolis) 3-pt, 2 PTOs \* New Holland 660 Autowrap round baler \* Vermeer 605J round baler \* 3-pt King Kutter 60" box blade w/ripper teeth \* International F-20 tractor.

**LAND PRIDE CONSIGNED EQUIPMENT:** 3-pt MP20 2-bottom moldboard plow \* 3-pt FDR2584 grooming mower \* 3-pt RCR1242 rotary mower \* 3-pt MP10 1-bottom moldboard plow \* 3-pt GS0548 grading scraper \* skid steer SGC1560 claw grapple \* 3-pt FM2572 flail mower.

**SADDLES:** Big Horn saddle P85 \* Ozark Leather Co saddle \* 1800 saddle.

**FARM EQUIPMENT: (10) panels 20' x 46" 6-bar galvanized continuous fencing w/connectors \* (2) pr ornamental gate panels 10' wide \* (7) 8' concrete feed bunks \* fuel tank \* 10' blade \* bale spear \* culverts. CARS, PICKUPS:** 2005 Ford Escape 3.0L V-6 engine (engine issues) \* 2003 Ford Ranger XLT pickup 2.3L 4-Cyl engine \* 1994 Pontiac Bonneville sedan 3.8L V-6 engine \* 1979 Toyota pickup 20R motor, runs, cab & chassis only.

**BATTERIES - TIRES - RIMS - SEATS - PARTS: BATTERIES: TIRES & RIMS:** Asstd light truck tires various sizes \* 275/80R22.5 & 295/75R22.5 truck tires \* asstd singles/pairs/sets of 4 rims \* SEATS: New van & truck seats (standard seats Eldorado pulled from new vehicles and upgraded) \* PARTS: (3) pr leaf spring assemblies \* 2009 ¾ ton Dodge front bumper \* 2015 ¾ ton Chevy front bumper \* 1959 Chevy ¾ ton front & rear axles.

**DRAG CAR - MOTORCYCLES:** 1999 Motivational Tubing junior dragster alcohol engine, 415 chain & sprocket, Mikuni 33 carb, 9.30 time 1/8 mile \* 2005 Kawasaki Ninja 250 2045 miles \* 1985 Honda Goldwing GL1100 Interstate touring bike w/fairing, saddlebags, trunk (runs, needs work) \* 1983 Yamaha Venture SVZ12 touring bike w/fairing, saddlebags, trunk (runs, needs work).

**ATVs:** 2015 Hisun Sector 250 UTV EFI 4-stroke 229cc liquid cooled engine 59 miles automatic CTV transmission 2wd has roof, windshield, turn signals, aluminum rims, 2500lb winch, dumping cargo bed \* 2008 or 2009 Ranger RZR 170cc 4-stroke engine.

**MOWERS - YARD EQUIPMENT:** Jacobsen 3-reel hydraulic drive riding greens mower \* (2) John Deere 220B walking greens mowers w/grass catchers \* Troy-Bilt 27-ton vertical/horizontal log splitter w/Honda 5.5hp engine, trailer dolly \* Central Machinery 4-ton electric log splitter \* Snapper LT200 18.5hp B&S engine 38" cut.

**SPORTSMAN GEAR:** BowTech Insanity CTX compound bow w/bag \* BowTech Destroyer 35.0 compound bow w/bag \* skulls & antlers \* (4) reloaders \* knives \* fishing reels \* holsters \* electronics \* radios \* voice recorders \* OnTime wildlife feeder \* deer stand & ladders.

**GUNS - AMMO:** Automag II 22 rimfire magnum cal semi auto pistol (fires Winchester Super X ammo) w/holster ser # M04565 \* Maverick mod. Over/Under 12 ga shotgun 2-3/4" bbl & 3" bbl w/attached light ser # TR 12 095630 \* Winchester mod.1200 12 ga pump shotgun w/Winchoke ser # L1243683 \* Sears mod.53 243 Win cal bolt action rifle w/Weaver scope & sling ser # 24028 \* Winchester mod.100 308 Win cal semi auto rifle w/Bushnell 4x-12x Banner scope & sling ser # A252653 \* Winchester mod.94 30-30 Win lever action rifle ser # 3892584 \* Remington mod.770 270 Win cal bolt action rifle w/3-9x40 scope ser # M72096995 \* Rock Island / API mod.M5 12 ga pump shotgun 3" chamber ser # RIA1464896 \* Mossberg mod.500A 12 ga pump shotgun ser # N/A \* Maverick by Mossberg mod.88 12 ga pump shotgun w/Accu-choke 3" chamber vent rib ser # MV92552K \* EIG/NAG mod. N/A 44 cal black powder pistol ser # N/A \* N R Davis & Son mod. Ajax 12 ga side-by-side shotgun ser # F7036 \* Raven Arms mod.MP-25 25 ACP cal semi auto pistol nickel plated ser # 1042500 \* Century Arms mod. C 308 Sporter 308 Win cal semi auto rifle w/3 mags ser # 308E13358 \* Columbia mod. Single Shot 12 ga single shot shotgun ser # 825 \* Mossberg mod.340KB 22 S-L-LR cal bolt action rifle ser # N/A \* JC Higgins mod.583.6 20 ga bolt action shotgun mod bbl ser # N/A \* Brazil / IFC 20 ga single shot shotgun ser # 316043 \* CBC/Mossberg mod.702 Plinkster 22 LR cal semi auto rifle w/Barska 4x20 scope ser # EM13890807 \* Sears - Ted Williams mod.300 20 ga semi auto shotgun vent rib choke on bbl ser # Q81104 \* CBC/Mossberg mod.702 Plinkster 22 LR cal semi auto rifle ser # EJB3093839 \* Remington Rand mod. Army 1911 45 ACP cal semi auto pistol ser # SC0595 \* Black Powder long gun \* Marlin mod.99 22 LR cal semi auto rifle ser # 6856910 \* Remington mod.24 22 Short (gallery gun) semi auto rifle ser # 73023 \* Hi-Point mod.CF380 380 ACP cal semi auto pistol w/extra mag ser # P779243 \* Winchester mod. Super X3 12 ga semi auto shotgun Invector Plus Choke 28" bbl camo w/sling & vent rib ser # HZW20651 \* Stevens mod.67 Series E 12 ga pump shotgun 3" chamber ser # C832745 \* Wards Western Field mod.C4M 22 LR cal semi auto rifle w/Weaver scope ser # 489B \* Mossberg mod.185K-A 20 ga bolt action shotgun C-Lect-Choke mod.20 ser # N/A \* Montgomery Ward - Western Field mod. N/A 12 ga pump shotgun C-Lect-Choke ser # H229426 \* Khan Arthemis mod.20 20 ga O/U shotgun 3" chamber vent rib ser # 992878 \* Springfield by Stevens mod.87A 22 S-L-LR cal semi auto rifle ser # N/A \* Winchester Super-X mod. 1 12 ga semi auto shotgun skeet choke vent rib ser # M47564 \* Remington mod.12 22 S-L-LR cal pump rifle ser # 548404 \* Winchester mod.06 22 cal pump rifle ser # 61537 \* Raven Arms mod.P-25 25 Auto cal semi auto pistol nickel plated ser # 450666 \* Taurus mod.66 357 Magnum cal revolver ser # CM740300 \* Accu-Tek mod.HC-380 380 Auto cal semi auto pistol w/extra mag ser # H001479 \* SCCY Industries mod.CPX-2 9mm semi auto pistol w/extra mag pink ser # 459619 \* Diamondback mod.DB380 380 Auto cal semi auto pistol ser # ZK1745 \* Marlin mod.5510 10 ga bolt action shotgun 3.5" chamber 'The Original Super Goose 10' ser # 20748146 \* Remington mod.870 12 ga pump shotgun vent rib full choke 1776-1976 Bicent. Comm. ser # T341115V \* Ithaca mod.M-49R 22 LR cal lever action rifle ser # 101678 \* Marlin mod.6083 22 LR semi auto rifle Ltd. Ed. Wagon Train Comm. w/Tasco 4x15 scope ser # WR000558 \* Remington mod.12 22 S-L-LR cal pump rifle ser # 753707 \* Iver Johnson Iron & Cycle Works mod. Champion ser # 38817 \* Stevens Arms Co. mod.5100 12 ga double bbl shotgun ser # N/A \* Tobin Arms Co mod.? 12 ga double bbl shotgun ser # 2906 \* Remington mod.12 wall hanger 22 S-L-LR cal pump rifle ser # 426410 \* Henry Repeating Arms mod. Golden Boy 22 S-L-LR cal lever action rifle beautiful engraved brass receiver octagon bbl Hunting Heritage Trust 2008 KS Heritage edition (one made for each state) NIB ser # GB179864 \* Marlin mod. Original Golden 39A 22 S-L-LR cal lever action rifle NIB ser # 96300370 \* Marlin mod. MR-7 30-06 SPRG cal bolt action rifle 22" bbl checkered walnut stock without sights NIB ser # 04001180 \* Winchester mod.70 243 Win cal bolt action rifle 26" bbl Classic Super Grade w/Tasco 4x40 scope ser # G1527979 \* Marlin mod.1894CB 357 Mag or 38 Spc cal lever action rifle 1894 Cowboy Limited 20" tapered octagon bbl black walnut stock NIB ser # 94206405 \* Marlin mod.336C 30-30 Win cal lever action rifle checkered stock NIB ser # 94012383 \* Marlin Presentation set (brace of 1000) matching engraved 22 and 30-30 lever action rifles w/same serial numbers - mod.336 Presentation 30-30 Win cal lever action rifle Marlin 1870 to 1970 coin on receiver gold trigger smooth walnut stock octagon bbl ser # 537 and mod.39 Presentation 22 S-L-LR cal lever action rifle Marlin 1870 to 1970 coin on receiver gold trigger smooth walnut stock octagon bbl ser # 537 \* Raven Arms mod.P-25 25 Auto cal semi auto pistol nickel plated w/46 rounds ser # 570324.

**INDUSTRIAL & CONSTRUCTION EQUIPMENT:** 2 lines of equipment stations from pallet recycler business, most built on 8'x 8' ¾" steel plates \* (2) Incline belt conveyors (trash conveyors for pallet recycling lines) \* self-dumping hopper \* Rockwell jointer on stand 3 phase \* (36) pcs 5" aluminum tubing most 10' long \* HD steel shelving w/plywood shelves \* 2006 Grob 4V-18 band saw 480v \* Grizzly dust collection equipment 220v \* Edwards 55-ton punch press 220v 3ph \* industrial drill press \* Dvorak Iron worker shear 480v.

**BUILDING SUPPLIES:** (18) bundles 40-yr fiberglass shingles green/black with (3) boxes ridge shingles \* landscaping stones \* wood burning stove \* (9) Tuf-Stop concrete car blocks \* landscaping blocks & pavers. **HARDWARE STORE LIQUIDATION ITEMS:** Several tables include plumbing, paint, hardware, door locksets, and lighting fixtures.

**TOOLS:** Grizzly mod.G0459 12" drum sander 115v \* DeWalt DW734 power planer w/extra blade sets \* electric concrete mixer \* Ryobi oscillating spindle sander \* (2) 6' fiberglass stepladders \* 8' fiberglass step-ladder \* 16' fiberglass extension ladder \* 20' aluminum extension ladder \* asstd Bostitch & Porter Cable nail guns \* DeWalt drill \* DeWalt screw gun \* concrete floats, poles, knee boards \* Delta Unisaw bench saw w/Biesmeyer fence \* pipe clamps \* post drivers \* levels \* weed burner \* Stihl concrete saw (needs work) \* Robin Subaru R1700i 1400w Inverter Generator \* (2) slip rollers \* Oz 3-ton chain hoist \* Dayton machinist vise \* Central Machinery 12-speed bench drill press \* (8) industrial lights \* parts bins panels \* Craftsman Professional 17" drill press 3/4hp 110v \* (4) roller stands \* industrial steel shelving \* Powermate 5000 generator tagged 110v only.

**ELECTRONICS:** (2) Uniden Bearcat BC560XLT scanners \* Pyramid power supply \* (2) MFJ HF/VHF SWR analyzers mod.MFJ-259B.

**EXERCISE & SPORTS EQUIPMENT:** (100) Football lockers 15" x 22" x 60" with lockable secure box on top over open faced equipment locker below - (23) groups/4, (2) groups/3, group/2, excellent condition \* Nissen balance beam 11'8" long.

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Oct. 19<sup>th</sup>- Special Bar S Ranch Genetic Influenced. calf sale sponsored by Bar S Ranch of Paradise, KS.  
Oct. 26<sup>th</sup>- Special Simmental Influenced calf sale sponsored by Ralph Brooks.  
Nov. 2<sup>nd</sup>- Special Red Angus Influenced feeder calf sale sponsored by Red Angus Association.  
Nov. 16<sup>th</sup>- Special cow sale, 3 complete dispersals already consigned.  
Dec. 7<sup>th</sup>- Special All Breed Calf & Feeder sale.

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Any announcement made the day of sale takes precedence over any printed matter.

# Hogs jump most in two months on technicals, pork packer demand

U.S. lean hog futures surged about 4 percent recently, boosted by chart-based buying and stronger demand from pork packers, traders and analysts said.

Hog futures on the Chicago Mercantile Exchange notched the largest percentage gains in more than two months as prices continued rising from multimonth lows reached on Aug. 29.

Two new pork processing plants began slaughtering this week in Iowa and Michi-

gan, increasing competition for hogs, the traders said.

"(Packers) are short of hogs and looking around," Archer Financial Services broker Dennis Smith said.

CME October hogs settled up 2,300 cents at 63.750 cents per pound, a 1-1/2 week high.

The contract surpassed the support level of about 62.400 cents, triggering technical buying, said Rosenthal Collins Group broker James Burns.

Cash hog prices were

down 16 cents in the top markets of Iowa and Minnesota after rising earlier, U.S. Department of Agriculture (USDA) data showed.

Signs that wholesale pork prices were nearing a seasonal low further underpinned hog prices. The pork cutout that tracks values of cuts such as hams and pork bellies was up 49 cents to \$84.96 per cwt, according to the USDA.

CME live cattle and feeder cattle futures were most-

ly lower as ample U.S. cattle supplies continued to weigh on prices.

CME October live cattle finished 0.725 cent lower at 104.425 cents per pound, its lowest settlement price since March 15. CME October feeder cattle were down 1.050 cents to 142.500 cents per pound.

USDA said choice-grade wholesale beef gained \$1.10 to \$192.45 per cwt and select-grade beef was down 18 cents to \$190.47 per cwt.

# Growing taste for butter drives farm-gate milk prices up

As consumers relearn to butter their toast, they help dairy prices at the farm gate.

Despite growth in the U.S. dairy cow herd, milk prices have stayed above year-ago levels this year, say University of Missouri Extension economists.

Looking for causes, they see growing demand for butter, say Scott Brown and Daniel Madison.

"Butter prices easily surpass the last record-high price in 2014. Strong butter demand will lead to an all-milk price near \$18 per hundredweight in 2017," Brown says.

It's not just U.S. consumer demand. Butter in Europe topped \$3 per pound the last two months.

The economists give their outlook in an "Update for Livestock and Dairy Markets." That's part of the MU Food and Agricultural Policy Research Institute (FAPRI) midyear outlook.

The report calls for a small pullback in milk prices in 2018 as international demand softens. However, prices grow in 2019 through the end of the outlook in 2022. The outlook price ends near \$19 per hundred.

Butter drives prices now. Cheese sales remain strong

(think pizza) but they don't lead in price strength. For now, cheese and nonfat dry milk prices remain below ten-year averages.

Milk price strength and low feed costs protect dairy margins near or above \$9 per hundred, Brown says. At that level, the Margin Protection Program (MPP), the USDA dairy safety net, won't make payments in coming months. "That outlook could change if historical butter demand levels return."

Dairy farmers haven't embraced MPP and seek better protection in the 2018 Farm Bill being discussed

by dairy groups with U.S. Congress.

This year could see a peak in dairy cow numbers. Now at near 9.4 million cows, that tapers to 9.3 million by 2022. However, total milk supply grows as per-cow production grows.

Brown and Madison are agricultural economists in the Division of Applied Social Sciences. That's part of the MU College of Agriculture, Food and Natural Resources.

The FAPRI report, including crops and biofuel, can be seen at [fapri.missouri.edu](http://fapri.missouri.edu).

# Growing in-demand soybeans can boost profitability for farmers

The farm economy has been in a holding pattern for years now, and managing for the future is more important than ever. On his family farm in the Shenandoah Valley, Marty Kable has had to make some tough decisions. This year, he, along with farmers in 12 states around the U.S., planted high oleic soybeans to increase his profit potential. In total, U.S. soybean farmers planted 650,000 acres of the premium soybeans this year.

Kable has actually increased acreage for High Horizons Farm, Inc., on the eastern tip of West Virginia, through careful management and support from his team - his wife and two sons who join him on the operation as well as experts like his agronomist, Bob Chandler.

When margins are tight, farmers start to look toward cutting costs to make ends meet, but Kable takes a different approach. "You can't cut too many costs or you start reducing your crop's performance," he says. "We're doing everything we can, from seed selection to inputs, to produce the best yield on any given acre."

And this year, Kable's seed decision made a big market impact. "Counting the double-crop that will be going in behind wheat, we'll have a total of 2,376 acres of high oleic soybeans," Kable says. "There was a lot of interest in the ag community around me, and we tested the varieties on our land last year. We saw yield that was as good as - even better than - anything else we planted, so the results were encouraging to grow more this year."

Kable's agronomist, Bob Chandler, agrees. "I also sell seed for several thousand acres of soybeans in this area. More than half of those acres are in high oleic varieties this year," he says.

What's so attractive about high oleic soybeans? Beyond the competitive yield, Kable says he likes growing a product that has a defined market. His high oleic acres are contracted with Perdue AgriBusiness, which processes the soybeans for premium soybean oil used by restaurants, food companies and in non-food applications because of its high-heat and shelf stability.

End-use customers want more of the oil than processors have in stock, so they offer a premium for high oleic soybeans to farmers who grow them. The biggest difference between growing high oleic and conventional soybeans, Kable says, is that farmers keep them separate to deliver them to the contracted processor - and that it comes with added profit.

For farmers, high oleic soybeans help build long-term soybean oil demand. Growing high oleic takes some of the commodity soybean oil off the market, and replaces it with a growing supply of high oleic soybean oil to meet end-user needs.

"All our beans this year are high oleic," Kable says, "due in part to the profit opportunity for our farm and for all soybean farmers. We like to stay up on anything new and exciting in the industry, and high oleic has real potential to add demand for U.S. soybean farmers."

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### JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from September 13, 2017:

STEERS		76	786	138.35	
2	333	197.00	9	798	138.00
15	490	191.00	6	893	132.00
18	561	168.00	5	988	125.00
4	606	166.00	4	945	125.00
8	619	165.00	4	1141	88.00
18	702	156.75			
6	771	155.00			
23	806	154.00			
14	835	149.75			
39	884	148.00			
60	928	143.00			
30	980	141.75			
21	1008	134.25			

**HEIFERS**

7	462	160.00
14	525	150.00
16	683	148.00
62	686	147.00
42	743	141.85

**TOP BUTCHER COW**  
\$64.00 @ 1,565 lbs.

**TOP BUTCHER BULL**  
\$82.50 @ 2,180 lbs.

**BRED COWS: NO TEST**  
**PAIRS: NO TEST**  
**SOWS: NO TEST**  
**FAT HOG TOP**  
 was \$32.00 @ 309 lbs.

**PIGS: NO TEST**

**CONSIGNMENTS FOR SEPTEMBER 20, 2017**  
 70 Ang X Red Ang Strs.....450-600 lbs.. Pre-Vacc., V. Hettenbach  
 60 Blk X Strs.....800-850 lbs.  
 65 Blk X Hfrs.....725-775 lbs.  
**PLUS MORE BY SALE DAY!**

**Special Calf Sale Dates!**

- **SALE #1: Monday, October 9 - 6:00 PM**  
- Free meal sponsored by Geary Co. Farm Bureau
- **SALE #2: Monday, October 30 - 6:00 PM**

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

**Visit our new website at [jccclivestock.com](http://jccclivestock.com)**

### CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

Report from September 12, 2017:

STEERS		6	496	163.00	
7	332	211.00	9	502	161.00
5	432	196.50	10	612	158.00
9	456	193.00	5	611	156.50
8	505	186.50	16	684	149.50
10	544	178.00	12	690	146.50
8	597	174.50	13	718	146.50
14	626	166.00	13	748	144.75
10	681	160.00	22	761	141.75
4	759	159.00	28	814	137.25
58	759	159.00	7	824	134.50
19	789	155.75	59	903	127.50
68	848	154.50			
62	838	152.75			
50	857	152.35			
61	894	146.50			
73	925	146.10			
12	922	139.75			
12	968	136.00			

**HEIFERS**

12	343	187.00
6	397	170.00
12	488	164.00

**TOP BUTCHER COW:**  
\$66.25 @ 1,780 lbs.

**TOP BUTCHER BULL:**  
\$88.50 @ 1,705 lbs.

**BRED COWS:**  
\$830 to \$2,250

**PAIRS:**  
\$1,175 to \$1,450

**UPCOMING SALE SCHEDULE**

- September 19: Sale
- September 26: Sale
- October 3: Sale
- October 7: Sheep & Goat Sale

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**Date: 9/6/17 Total head count: 1,477. COWS:**  
 \$67-72.00; \$62-\$66.75; \$61 & down. **BULLS:**  
 \$80-81.00, light test

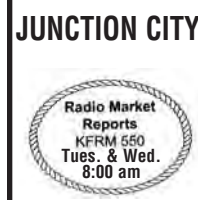
HEIFERS		4 blk	659@156.50
9 blk	483@158.50	25 bkbwf	695@156.50
4 mix	455@149.00	4 blk	644@156.00
5 blk	593@138.00	8 mix	636@145.00
4 blk	641@144.50	6 blk	690@145.00
8 blk	643@143.00	47 blk	752@157.25
17 blk	699@142.25	4 blk	719@151.00
4 blk	619@140.00	10 blk	709@150.50
8 mix	651@136.00	10 blk	778@148.00
4 mix	655@128.00	6 blk	704@143.00
22 blk	730@142.75	6 red	725@141.00
9 mix	708@142.50	4 mix	718@125.00
4 blk	749@141.00	9 blk	826@148.00
5 blk	775@138.75	11 blk	831@147.75
81 mix	760@138.00	5 blk	839@145.75
4 mix	779@136.50	26 mix	843@145.75
5 mix	718@129.00	56 mix	852@144.00
4 blk	710@128.00	22 mix	856@143.00
46 blk	846@137.75	16 blk	873@141.50
19 mix	814@137.00	15 mix	892@138.50
12 mix	863@134.00	114 blk	944@146.85
18 mix	852@133.50	131 mix	912@139.75
19 mix	852@133.50	16 blk	938@139.50
12 blk	880@133.50	5 mix	930@138.50
16 blk	862@133.25	62 mix	987@133.00
9 mix	955@128.50	4 mix	944@130.50
STEERS		53 mix	1009@137.00
8 blk	464@177.00	57 mix	1001@136.00
4 blk	538@166.50	113 mix	1019@132.00
5 spot	502@136.00	16 blk	1060@128.00
72 bkbwf	668@162.25	8 mix	1065@120.75

**EARLY CONSIGNMENTS FOR SEPT. 20<sup>th</sup>**

- 60 blk red & Char hfrs, 750-825 lbs
- 55 blk strs, 925-975 lbs
- 53 blk & bwf strs, 950-1000 lbs

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# Teachable, ultra-compact, autonomous phenotyping robot introduced to investors and the market

Investors and executives in the agricultural industry are getting a first look at TerraSentia, a new-to-the-market agricultural robot that autonomously measures crop traits, developed at the University of Illinois. TerraSentia was unveiled on Sept. 11 to 13 at the Ag Innovation Showcase in St. Louis, bringing agricultural innovators together with investors to help realize the future of the industry.

EarthSense, Inc. announced it has filed a provisional patent and is now taking pre-orders for the agricultural robot TerraSentia, which will be ready for the 2018 growing season. Developed at the University of Illinois, with support from the Advanced Research Projects Agency - Energy (ARPA-E), the robot will cost early adopters \$4,999 - a fraction of the cost of hiring laborers to measure germination, conduct stand

counts, and other monotonous jobs.

The robot's developer, Girish Chowdhary, a professor in the Department of Agricultural and Biological Engineering at U of I, envisions a fleet of these ultra-compact robots roving fields doing simple tasks that will free up precious human capital to work on the big picture.

"Our robot will do the exhausting, time consuming, error-prone part - col-

lecting field data - giving plant breeders and scientists more time to analyze it and make key decisions," said Chowdhary. "What would take a team of researchers tromping through fields with tape measures and other tools to do in several days, our robot can do in several hours."

Currently, the robot can autonomously count plants and measure stem width to help estimate biomass for corn, sorghum, and soy-

beans. Work is under way to teach it to measure stem, angle plant height, corn ear height, leaf area index, early vigor, and biomass, and to identify diseases.

Early adopters who order by Nov. 31, 2017 will get 100 hours of one-on-one consulting to teach their robot to detect and quantify other traits that drive their business or research. They will also benefit from an exclusive buyback program and a one-year, all-inclusive warranty.

TerraSentia comes equipped with two visual cameras, a tablet app featuring first-person view, and secure cloud software used to store data and teach the

robot. The ultra-compact robot weighs less than 15 pounds and is just 11 inches wide to fit in most crop rows. At 8.5 hours per charge, the robot's battery lasts a full workday.

The robot can be further customized with GPS to enable autonomous navigation and custom mounts for additional sensors including multi-spectral cameras, hyperspectral cameras, stereoscopic and structured light cameras, and LIDAR.

For more information or to order TerraSentia, contact EarthSense, Inc. CEO Chinmay Soman via email at hello@earthsense.co or visit earthsense.co.

## USDA integrates recalls information into 'FoodKeeper' application

The U.S. Department of Agriculture (USDA) has announced new updates to its popular FoodKeeper application that will provide users with new information on food safety recalls. The app has been updated so users can choose to receive automatic notifications when food safety recalls are announced by USDA's Food Safety and Inspection Service (FSIS) and the Food and Drug Administration (FDA).

In the update posted to the Google Play and iTunes stores, users can select to receive information on food safety recalls immediately when they're announced or select to receive them daily or weekly. The update also adds instructional videos on proper handling and storage of food, and expands the list of food and beverage products from about 400 to more than 500 items.

"This is a great way for the public to stay informed when food is recalled," said Acting Deputy Under Secretary for Food Safety Carmen Rottenberg. "The FoodKeeper app is a very handy and easy-to-use tool; and it reflects USDA's commitment to provide the public with information and knowledge to help them make informed decisions."

The FoodKeeper app was developed by FSIS in partnership with Cornell University and the Food Marketing Institute, as a tool to help reduce food waste and improve public health by sharing storage methods

that extend the shelf life of the foods and beverages in American homes. It now offers specific storage timelines for the refrigerator, freezer and pantry, for more than 500 products, including various types of baby food, dairy products and eggs, meat, poultry, produce, seafood and more. Since it was launched in April 2015, it has been downloaded nearly 150,000 times.

"These updates to the FoodKeeper are just one more example of FSIS' commitment to reducing the rates of foodborne illness nationally," said Rottenberg. "We want to make sure the valuable recall information FSIS and FDA publish is available to as many Americans as possible. With the expansion of products covered in the apps database, this app is helpful to any type of consumer, and I encourage anyone who hasn't already done so, to download and begin using the FoodKeeper app."

With the FoodKeeper application, each user can:

Find specific storage timelines for the refrigerator, freezer and pantry, depending on the nature of the product;

Learn cooking tips and methods for various types of meat, poultry and seafood products;

Note in their device's calendar when products were purchased and receive notifications when they are nearing the end of their recommended storage date;

Submit a question to

USDA using the 'Ask Karen' feature of the application. 'Ask Karen' is USDA's 24/7 virtual representative. The system provides information about preventing foodborne illness, safe food handling and storage, and safe preparation of meat, poultry and egg products; Submit items not included in the database

for consideration in future updates; Receive information on food safety recalls immediately when they're announced or select to receive them daily or weekly.

For those that do not have access to a smartphone, the FoodKeeper app can also be accessed at FoodSafety.gov/FoodKeeper.

### BELLEVILLE 81 LIVESTOCK SALES

Junction Hwys 36 & 81 Belleville, Kansas

**CATTLE SALES EVERY FRIDAY • 10:30 AM**


Sept. 15 sale. Slaughter Cows, lower; poor cows, \$35-\$55; better cows, \$57-\$67. Bulls to \$90.

STEERS		HEIFERS	
429 lbs.	\$198.00	738 lbs.	\$157.00
448 lbs.	\$190.00	415 lbs.	\$177.00
470 lbs.	\$180.00	450 lbs.	\$170.00
532 lbs.	\$177.50	498 lbs.	\$157.00
544 lbs.	\$173.50	556 lbs.	\$160.00
568 lbs.	\$173.25	619 lbs.	\$151.50
580 lbs.	\$169.50	700 lbs.	\$140.00
610 lbs.	\$169.25	778 lbs.	\$136.00
720 lbs.	\$155.75	1025-1100 lbs.	\$121-\$127

**CATTLE SALE: FRIDAY, SEPT. 22**  
40 str & hfrs, 800 lbs.; 20 str & hfrs, 800 lbs.; 40 blk, 450-600 lbs.

**Special Fall Sheep & Goat Sale, Saturday, Oct. 28 • 2 PM**  
190 hair buck lambs, 70 lbs.; 130 hair ewe lambs, 60 lbs.; 40 hair ewes, 6-7 yrs.; 70 goats, 50-60 lbs.; 100 hair lambs, 60-75 lbs.  
CALL TO CONSIGN! 785-527-2258

Auctioneer Ethan Schuette 785-541-1027 • 785-527-2258  
For Market Reports, and Early Listings  
Website: [Belleville81.com](http://Belleville81.com)  
Barry & Angii Kort, Owners • 785-527-2258  
Thanks for your business!



**Central Livestock**  
811 N. Main St.  
South Hutchinson, Ks

[www.centrallivestockks.com](http://www.centrallivestockks.com)

Office: 620-662-3371  
or Matt Hoffman (Owner): 620-727-0913

Hay Auction- Every Tuesday at 9:00 a.m.  
Cattle Auction- Every Tuesday at 10:00 a.m.  
Hog/Sheep/Goat Auction- Every 3rd Saturday  
Horse/Tack Auction- Every 1st Saturday

Results From September 12<sup>th</sup> Sale:

Steers:		Heifers:	
300-400#	\$199.00-\$217.00	900-1000#	\$134.50
400-500#	\$160.00-\$195.00	300-400#	\$164.00-\$185.00
500-600#	\$146.00-\$179.00	400-500#	\$158.00-\$181.00
600-700#	\$149.00-\$162.00	500-600#	\$130.50-\$163.00
700-800#	\$124.00-\$150.00	600-700#	\$122.50-\$155.00
800-900#	\$120.00-\$147.00	700-800#	\$126.50-\$131.50

**Tues., Sept. 26<sup>th</sup> - Holstein Special**  
**Fri., Oct. 6-7<sup>th</sup> - Special Colt Sale Catalog**  
**Tues., Oct. 10<sup>th</sup> - Calf/Yearling Special**  
**Sat., Oct. 21<sup>st</sup> - Hog/Sheep/Goat Sale**

### Eureka Livestock Sale

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

**Sale Every Thursday at 11:30 a.m. Sharp**

*Like Us On Facebook!*  
**On Thursday, September 14 we had 1,363 head of cattle on an active market.**

STEERS		HEIFERS	
7 blk	453@181.00	7 blk	733@149.50
7 bkbw	454@173.50	6 bkred	806@148.50
4 redbk	503@171.00	16 bkbw	831@146.50
11 blk	562@164.50	47 bkred	665@145.00
14 bkred	637@162.00	8 bwfrf	856@144.00
7 bkred	532@160.00	20 blk	769@139.75
8 bkbw	528@158.00	3 blk	350@168.00
12 bkbw	726@157.00	3 blk	370@165.00
32 bkbw	521@156.50	3 blk	447@160.50
8 blk	624@155.00	6 bkbw	410@157.00
17 blk	613@155.00	5 blk	505@153.50
20 bkbw	799@152.75	7 blk	511@152.50
8 bkbw	603@151.50		
19 blk	626@151.00		

**Butcher Cows: \$42-\$74, Mostly \$58-\$68, \$1-\$3 lower but very active.**  
**Butcher Bulls: \$67-\$88, Mostly \$80-\$85, \$1-\$3 lower but very active.**  
**Preg Cows: \$700-\$1,550. Pairs: \$1,200-\$1,400.**  
**Young open blk cows, 3-5 years old: \$88-\$108.**

BUTCHER COWS		BUTCHER BULLS	
1 blk	1120@74.00	1 blk	1645@67.00
1 blk	1305@72.00	1 blk	2155#88.00
12 bkbw	1243@71.00	1 blk	2060@88.00
1 rd Angus	1125@70.00	1 wf	2255@87.50
2 blk	1235@69.00	1 blk	1705@85.50
1 blk	1745@68.00	1 blk	2030@85.00
2 blk	1670@68.00	1 blk	2095@84.50
4 mix	1315@67.50	1 rd Angus	1835@84.50
1 blk	1525@67.00		

**EARLY CONSIGNMENTS FOR SEPT. 21**

- 90 mostly blk str, 750-850 lbs, off the grass
- 40 blk bwf str, 700-800 lbs, off the grass
- 70 blk red str & hfrs, 500-700 lbs, weaned & vac
- 50 blk bwf str & hfrs, 450-600 lbs off the cow
- 53 blk bwf rbf str & hfrs, 600-700 lbs, off the cow
- 15 blk cows 3-5 yr old & open
- 80 packer cows off 2 ranches

We appreciate your business!

**Ron Ervin - Owner-Manager**  
Home Phone - 620-583-5385  
Mobile Cell 620-750-0123

**Austin Evenson- Fieldman**  
Mobile Cell 620-750-0222

If you have any cattle to be looked at call Ron or Austin

## 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 9-14-17. Head Count: 1,408.

300-400 lb. steers, \$125-\$179; heifers, \$120-\$172; 400-500 lb. steers, \$125-\$177; heifers, \$120-\$150; 500-600 lb. steers, \$125-\$167; heifers, \$120-\$152; 600-700 lb. steers, \$125-\$161.50; heifers, \$130-\$153; 700-800 lb. steers, \$125-\$155; heifers, \$130-\$144; 800-900 lb. steers, \$120-\$153; heifers, \$130-\$134. Trend on Calves: Steady demand on choice calves, steady market. Trend on Feeder Cattle: Demand strong, \$3-\$4 higher. Butcher Cows: High dressing cows: \$58-\$68; Avg. dressing cows: \$48-\$58; Low dressing cows: \$25-\$48. Butcher Bulls: Avg. to high dressing bulls \$75-\$83. Trend on Cows & Bulls: \$5-\$6 cheaper.

We are expecting 800-1000 head on Thursday September 21st!

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 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

Chris Locke (316) 320-1005 (H) (316) 322-0675 (M)	Steven Hamlin (602) 402-6008 (H) (620) 222-1199 (M)
Larry Womacks, Fieldman (620) 394-3273 (H) (620) 229-0076 (M)	Van Schmidt, Fieldman (620) 367-2331 (H) (620) 345-6879 (M)

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

### Holton Livestock Exchange, Inc.

1/2 mile East of Holton, KS on 16 Highway

**Livestock Auction every Tuesday at 12 NOON**  
*Serving the Midwest Livestock Industry for 64 Years!*  
\*\*\*\*STARTING TIME: 12:00 NOON\*\*\*\*

MARKET REPORT FOR TUESDAY, SEPTEMBER 12, 2017  
RECEIPTS: 777 CATTLE

STEERS		HEIFERS	
3 bwf blk str	440@195.00	46 mix str	876@148.00
2 blk str	375@190.00	28 mix str	821@145.50
6 red char str	447@185.00	62 blk char str	867@144.75
5 blk str	513@184.50	4 blk str	960@134.00
4 blk str	493@180.00	21 mix str	994@132.50
4 blk str	588@170.00	6 blk bwf str	1000@122.00
5 red char str	508@169.50		
8 blk bwf str	595@168.00	4 blk bwf hfrs	486@165.00
5 blk bwf str	595@167.00	11 red char hfrs	439@164.00
4 blk str	618@164.00	4 blk bwf hfrs	583@150.00
17 blk bwf str	730@158.00	11 blk red hfrs	658@150.00
4 blk str	620@157.00	5 blk hfrs	732@149.50
5 blk str	699@155.00	5 rwf hfrs	667@147.00
6 bwf rbf str	739@154.00	6 blk red hfrs	684@143.00
6 blk bwf str	765@152.50	7 blk hfrs	580@143.00
5 blk red str	646@152.00	3 blk bwf hfrs	736@137.00
7 blk red str	753@151.50	3 blk bwf hfrs	755@135.25
11 blk bwf str	769@150.00	30 mix hfrs	777@135.25
3 blk str	801@148.75	31 blk bwf hfrs	813@132.25
		65 mix hfrs	861@131.25

SEPTEMBER 26--REGULAR WEEKLY AUCTION--12 NOON

SEPTEMBER 30 -- G&M LAWNS/GARRETT & MEGAN LACY BUSINESS & PERSONAL PROPERTY LIQUIDATION AUCTION, VALLEY FALLS, KS

OCTOBER 3--SPECIAL CALF & YEARLING AUCTION--12 NOON

OCTOBER 7--FALL CONSIGNMENT AUCTION--9 A.M.

Dan Harris, Auctioneer & Owner • 785-364-7137  
Danny Deters, Corning, Auct. & Field Rep • 785-868-2591  
Dick Coppinger, Winchester, Field Rep. • 913-774-2415  
Steve Aeschliman, Sabetha, Field Rep. • 785-284-2417  
Larry Matzke, Wheaton, Field Rep. • 785-268-0225  
Craig Wischropp, Horton, Field Rep. • 785-547-5419  
Barn Phone • 785-364-4114  
WEBSITE: [www.holtonlivestock.com](http://www.holtonlivestock.com)  
EMAIL: dan@holtonlivestock.com

View our auctions live at "lmauctions.com"

# Gelbvieh Convention to be held in Wichita

The 47th Annual American Gelbvieh Association National Convention will be held December 7-9, 2017, at the Hyatt Regency Wichita in Wichita. This year's event is themed "Meeting Modern Industry Demands: Setting the Standard." The title

sponsor for the event is Gen-eSeek®, a Neogen Company. The AGA convention includes events such as AGA committee meetings, the AGA annual membership meeting, kick-off reception, awards banquet, the third annual Cattlemen's Profit

Roundup, and more. Cattlemen's Profit Roundup is the largest event of the convention and will be held on Friday, December 8, with a provided lunch at 12:00 noon; the program begins at 1:30 p.m. Central time. Cattlemen's Profit Roundup is a

free educational symposium open to commercial beef producers, industry professionals and AGA members. This symposium will feature industry leading speakers from all sectors of the beef industry and focus on beef industry profitability. No

registration is necessary for the Cattlemen's Profit Roundup. Registration for the three-day convention is available online at [www.gelbvieh.org](http://www.gelbvieh.org). Early registration ends October 31. The American Gelbvieh

Association is a progressive beef cattle breed association representing 1,000 members and approximately 40,000 cows assessed annually in a performance-oriented total herd reporting system.

# Rangeland grasses recover quickly after wildfires

There is good news for beef producers in western states: They might not have to wait two to three years after a spring wildfire to graze cattle on federal rangelands.

Lance Vermeire, an Agricultural Research Service (ARS) ecologist in Miles

City, Montana, found grazing within a year after a wildfire doesn't harm grass and can provide just as much forage as sites that haven't burned.

About 4 million acres of U.S. rangelands burn every year. Not all of that acreage is suitable for grazing, but millions of suitable acres do

annually burn in wildfires.

The Bureau of Land Management and the USDA Forest Service generally recommend waiting up to three years after a fire before allowing grazing believing that grasses native to the dry climate of the northern prairies need that much

time to recover. However, both agencies are shifting away from that position—in large part, because of findings by Vermeire and his colleagues.

In studies, Vermeire has found that native grasses usually survive wildfires. When a fire sweeps through, it takes the dead plant material from the surface, but most of the plant, which is below ground, escapes long-term damage.

Vermeire and his col-

leagues compared the productivity of tracts that were grazed with tracts that were not grazed at a South Dakota site where a spring wildfire burned more than 10,000 acres. They found no significant differences in grass production. The cattle removed 47 percent of the vegetation from the burned sites, which is the average rate of vegetation removal from grazing.

The study was partially funded by the Forest Ser-

vice, and the results will help guide federal policies on rangeland management.

Read more about this research in the September 2017 issue of *AgResearch* magazine.

For more information contact Dennis O'Brien, ARS Office of Communications.

The Agricultural Research Service is the U.S. Department of Agriculture's chief scientific in-house research agency. Daily, ARS focuses on solutions to agricultural problems affecting America. Each dollar invested in agricultural research results in \$20 of economic impact.

### Grass & Grain Weather Report Sept. 19, 2017

Seven Day Forecast	In-Depth Local Forecast	Today's Local Outlook																																
<b>TUESDAY</b> Isolated T-storms High: 85 Low: 68  <b>WEDNESDAY</b> Partly Cloudy High: 84 Low: 64  <b>THURSDAY</b> Partly Cloudy High: 82 Low: 62  <b>FRIDAY</b> Partly Cloudy High: 86 Low: 66  <b>SATURDAY</b> Few Showers High: 85 Low: 65  <b>SUNDAY</b> Mostly Cloudy High: 79 Low: 59  <b>MONDAY</b> Sunny High: 80 Low: 60	Today we will see partly cloudy skies with a 30% chance of showers and thunderstorms, high temperature of 85°, humidity of 57%. South southeast wind 7 to 11 mph. The record high temperature for today is 100° set in 1895.  <b>Last Week's Almanac</b> <table border="1"> <thead> <tr> <th>Date</th> <th>Hi/Lo</th> <th>Normals</th> <th>Precip</th> </tr> </thead> <tbody> <tr><td>9/8</td><td>91/54</td><td>85/59</td><td>0.00"</td></tr> <tr><td>9/9</td><td>88/54</td><td>84/59</td><td>0.00"</td></tr> <tr><td>9/10</td><td>85/64</td><td>84/58</td><td>0.00"</td></tr> <tr><td>9/11</td><td>85/56</td><td>83/58</td><td>0.00"</td></tr> <tr><td>9/12</td><td>83/54</td><td>83/57</td><td>0.00"</td></tr> <tr><td>9/13</td><td>91/53</td><td>82/57</td><td>0.00"</td></tr> <tr><td>9/14</td><td>97/64</td><td>82/56</td><td>0.01"</td></tr> </tbody> </table> Rainfall ..... 0.01" Normal rainfall ..... 0.94" Departure ..... -0.93" Average temp ..... 72.8° Average normal ..... 70.5° Departure ..... +2.3°	Date	Hi/Lo	Normals	Precip	9/8	91/54	85/59	0.00"	9/9	88/54	84/59	0.00"	9/10	85/64	84/58	0.00"	9/11	85/56	83/58	0.00"	9/12	83/54	83/57	0.00"	9/13	91/53	82/57	0.00"	9/14	97/64	82/56	0.01"	Washington 85/70 Blue Rapids 84/67 Seneca 83/67 Clay Center 85/67 Mahattan 85/68 Wamego 84/67 Ogdan 88/66 Junction City 85/69 Abilene 87/68 Council Grove 84/69
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9/14	97/64	82/56	0.01"																															
Local UV Index	Weather History	Growing Degree Days																																
0-2: Low, 3-5: Moderate, 6-7: High, 8-10: Very High, 11+: Extreme Exposure	Sept. 19, 1947 - The eye of a hurricane passed over New Orleans and the barometric pressure dipped to 28.61 inches. The hurricane killed 51 people and caused 110 million dollars in damage. It produced wind gusts to 155 mph at Fort Lauderdale, Fla. two days earlier.	<table border="1"> <thead> <tr> <th>Date</th> <th>Degree Days</th> <th>Date</th> <th>Degree Days</th> </tr> </thead> <tbody> <tr><td>9/8</td><td>22</td><td>9/12</td><td>18</td></tr> <tr><td>9/9</td><td>21</td><td>9/13</td><td>22</td></tr> <tr><td>9/10</td><td>24</td><td>9/14</td><td>30</td></tr> <tr><td>9/11</td><td>20</td><td></td><td></td></tr> </tbody> </table>	Date	Degree Days	Date	Degree Days	9/8	22	9/12	18	9/9	21	9/13	22	9/10	24	9/14	30	9/11	20														
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### AgToons by Michele Johnson

# Sell At St. Marys

## Cattle By Auction STARTING TIME 10:30 AM Tuesdays

**We sold 1533 cattle September 12. There was good demand for steer and heifer calves which sold \$3.00-5.00 higher. Feeder steers and heifers were steady to \$5.00 higher. Cows and bulls sold \$2.00-4.00 lower.**

<b>STEER &amp; BULL CALVES</b> 1 blk bull 290 @ 217.00 1 blk bull 310 @ 205.00 1 bwf bull 285 @ 203.00 2 bwf str 408 @ 201.00 2 blk/bwf bulls 345 @ 198.00 2 blk str 415 @ 194.00 1 blk str 435 @ 192.00 1 bwf bull 360 @ 184.00 3 blk str 507 @ 180.00 4 blk str 521 @ 176.00 1 bwf bull 445 @ 174.50 5 blk/bwf str 524 @ 174.00 2 blk str 503 @ 173.00 4 blk str 540 @ 168.00 6 x-bred bulls 500 @ 160.50 18 hol str 327 @ 86.50 3 hol str 463 @ 83.00 4 hol str 316 @ 80.00	<b>HEIFER CALVES</b> 1 blk hfr 260 @ 184.00 1 blk hfr 355 @ 182.00 5 blk hfrs 423 @ 170.00 3 blk/bwf hfrs 463 @ 170.00 1 blk hfr 405 @ 169.00 3 blk hfrs 427 @ 169.00 6 blk hfrs 429 @ 166.00 7 blk/bwf hfrs 481 @ 161.00 12 blk/bwf hfrs 524 @ 161.00 3 blk/bwf hfrs 457 @ 157.00 1 blk hfr 515 @ 156.00 1 blk hfr 445 @ 155.00	<b>STOCKER &amp; FEEDER STEERS</b> 5 blk str 550 @ 178.00 7 blk/bwf str 551 @ 173.50 20 blk str 611 @ 166.75 7 blk/bwf str 610 @ 165.00 48 mix str 721 @ 162.25 4 blk str 553 @ 162.00 20 mix str 678 @ 161.79 5 blk str 619 @ 160.00 37 blk/bwf str 682 @ 158.00 64 blk/red str 851 @ 158.00 21 blk str 652 @ 156.50 128 blk/red str 773 @ 155.50	<b>STOCKER &amp; FEEDER HEIFERS</b> 22 blk/bwf hfrs 553 @ 159.50 18 blk/bwf hfrs 579 @ 155.50 15 blk hfrs 613 @ 155.50 5 blk hfrs 598 @ 154.10 3 blk hfrs 550 @ 149.00 12 blk/bwf hfrs 635 @ 147.00 3 blk/bwf hfrs 588 @ 146.00 10 blk/bwf hfrs 709 @ 144.50 7 blk/bwf hfrs 739 @ 140.50 9 blk/bwf hfrs 723 @ 139.50 30 blk/red hfrs 774 @ 139.25 7 blk/bwf hfrs 748 @ 138.00 8 blk/red hfrs 703 @ 136.50 67 blk/bwf hfrs 811 @ 136.25 5 blk/bwf hfrs 777 @ 136.00 68 mix hfrs 804 @ 135.00	<b>COWS &amp; HEIFERETTES</b> 1 bwf hfrt 845 @ 113.00 2 blk hfrts 1120 @ 102.00 4 blk hfrts 1015 @ 93.00 1 bwf hfrt 1130 @ 86.00 2 blk hfrts 1135 @ 79.00 1 blk hfrt 955 @ 78.00 2 blk/red hfrts 980 @ 76.00 1 blk cow 1450 @ 70.00 1 wf hfrt 1370 @ 69.00	<b>BRED COWS &amp; HEIFERS</b> 1 blk cow @ 1185.00 1 blk cow @ 975.00 1 x-bred cow @ 940.00 1 sim cow @ 935.00 1 blk cow @ 900.00 1 x-bred cow @ 880.00 1 Inghm cow @ 840.00	<b>BULLS</b> 1 blk bull 1990 @ 90.00 1 blk bull 2055 @ 89.00 1 bwf bull 2170 @ 86.00 1 blk bull 1660 @ 85.50 1 blk bull 1805 @ 84.50 1 blk bull 1935 @ 84.00 1 wf bull 1390 @ 82.00 1 blk bull 1830 @ 80.00
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**CONSIGNMENTS FOR SEPT. 19, 2017:**

- 320 Hereford heifers, 700-800 lbs., OCV'd, vacc., homeraised from Brainard Cattle Co.
- 125 Angus steers & heifers, 475-550 lbs., vacc.
- 50 black steers, 450-600 lbs., vaccinated
- 50 Angus steers & heifers, 500-600 lbs., vaccinated
- 35 Angus steers & heifers, 500-600 lbs.
- 29 black steers, 750-775 lbs.
- 65 black steers, 800-825 lbs.
- 60 black Charolais steers, 900-925 lbs.
- 60 black steers, 800-850 lbs.
- 60 black Charolais steers, 875-900 lbs.
- 70 black heifers, 725-750 lbs.
- 65 black heifers, 750-775 lbs.
- 120 black heifers, 775-800 lbs., Northern origin
- 130 black Charolais heifers, 775-800 lbs.
- 60 black steers, 850-875 lbs.
- 60 black steers, 875-900 lbs.
- 60 black Charolais steers, 900-925 lbs.

*We will be starting at 10:30 am on cows!*  
**PLUS MORE BY SALE TIME!**

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

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

FOR INFORMATION OR ESTIMATES:

REZAC BARN	ST. MARYS, 785-437-2785	LELAND BAILEY	TOPEKA, 785-286-1107
DENNIS REZAC	ST. MARYS, 785-437-6349	LYNN REZAC	ST. MARYS, 785-456-4943
DENNIS' CELL PHONE	785-456-4187	REX ARB	MELVERN, 785-224-6765
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AUCTIONEERS: DENNIS REZAC & REX ARB



Livestock Commission Company, Inc.  
**St. Marys, Ks.**