

FDA report on antibiotics validates work by U.S. pig farmers; on-farm practices lead to antibiotic use decline

America's 60,000 pig farmers continue to do what's right on the farm for people, pigs and the planet when it comes to demonstrating their commitment to antibiotic stewardship. That's why last week's findings in the U.S. Food and Drug Administration's 2016 Summary Report on Antimicrobials Sold or Distributed for Use in Food-Producing Animals came as no surprise, but as a validation of the hard work U.S. pig farmers have put in to reduce the overall need for antibiotics while still protecting the health and welfare of the pigs under their care.

"This report, which still is based on sales and not actual usage, supports what we already know at the farm level—we're using fewer antibiotics overall today because we're committed to reducing the need for

them while protecting the health and welfare of our animals," said National Pork Board President Terry O'Neel, a pig farmer from Friend, Nebraska. "When we must use antibiotics, we work closely with our veterinarians to ensure that we use them according to the FDA-approved label."

Veterinarian Dave Pyburn, vice president of science and technology at the National Pork Board, says the new report must be viewed for what it is—an estimate of antibiotic use and not a literal measure of use at the farm level. He also points out the inherent size and longevity differences between cattle, pigs and poultry when looking at antibiotic use.

Different species will obviously face additional health challenges due to longevity. For example, a broiler chicken typically

goes to market in about six weeks, whereas for pigs it's about six months and for beef cattle it's 18 months.

"Unfortunately, the FDA report is not truly reflective of overall antibiotic usage by species because the pharmaceutical companies don't record sales by species," Pyburn said. "Secondly, the report does not include species-specific data regarding ionophores in its results, making its estimate about which species use more antibiotics than another less than precise. For example, pig farmers use almost no ionophores, but poultry and beef producers use a fair amount of that class of antibiotics."

Despite its species-specific shortcomings, the FDA report clearly shows that the overall usage of antibiotics in livestock is the low-

est since 2009. According to the USDA's National Agricultural Statistics reports, America's pig farmers produced over five million more market hogs in 2016 than in 2009 and market weights increased by 16 pounds in that period. Those figures suggest that today's pig farmers are using far less total antibiotics per pound of pork produced.

"As a scientist, I'm very excited about the work America's pig farmers have funded to help us get a more precise handle on antibiotic usage," said public health veterinarian Heather Fowler, director of producer and public health with the National Pork Board. "We've been collaborating with some of the best researchers in the world on developing on-farm metrics, so that we can make additional progress in antibiotic stewardship

in a way that has a tangible and positive outcome for the health of people, pigs and the planet."

According to Fowler, the National Pork Board's work with researchers on creating novel on-farm antibiotic use metrics will advance more quickly in 2018 since much of the groundwork has been completed. Likewise, similar work has been done by the U.S. poultry and beef industries.

Fowler believes ongoing collaboration with academia, governmental agencies and non-governmental organizations is the best way to move forward in solving the complex issue of antibiotic resistance. She points to the Pork Checkoff's ongoing work and collaboration with partners such as the Centers for Disease Control and Prevention on the global One Health initiative. Also, long-time

industry programs such as PQA Plus have put even more focus on antibiotic stewardship today, which complements the Checkoff's investment of more than \$6 million for antibiotic-related studies since 2000.

From a farmer perspective, O'Neel said 2017 has been another milestone in antibiotic stewardship. "While some of our detractors may think it's only legislation or new rules that move us to act, we know differently," he said. "The data that we are seeing in this FDA report shows that livestock producers were reducing the need and usage of antibiotics prior to the enactment of the FDA guidances going into effect on January 1. It also reflects our ongoing dedication and competency as pig farmers to practice good antibiotic stewardship."



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For our sale Friday, Dec. 15th, steers and heifers with quality and condition were selling at fully steady to strong prices. Lower quality and fleshy cattle were showing some weakness. Cull cows and bulls sold steady to \$2 lower.

STEER CALVES — 325-550 lbs

Wamego	5 blk	329@192.00
Alta Vista	4 blk	337@191.00
Alma	5 b lk	498@189.00
Wamego	6 blk	440@181.00
Wamego	3 blk	440@168.00
Wamego	16 blk	513@165.50
Onaga	5 Heref	525@159.50
Havensville	8 blk	543@156.00
Concordia	3 Heref	515@154.50
Cedar Point	12 Long HX	475@153.00
Cedar Point	11 Long HX	430@141.00
Cedar Point	7 Long HX	355@134.00

STEERS — 550-1,000 lbs

Shawnee	38 Cross	587@177.50
Shawnee	51 blk	666@169.00
Allen	3 bwf	606@165.00
Oskaloosa	8 Cross	586@161.50
Baldwin City	3 blk	610@161.00
Blue Rapids	5 blk	567@159.50
Allen	9 blk	742@158.75
Burns	5 Cross	661@158.50
Baldwin City	8 blk	696@158.00
Onaga	6 blk	686@156.50
Oskaloosa	10 Cross	689@156.50
Burns	12 blk	725@156.50
Harveyville	4 blk	596@156.50
Onaga	41 blk	798@156.00
Harveyville	7 blk	701@155.50
Onaga	3 Cross	638@155.00
Blue Rapids	9 blk	763@150.00
Onaga	8 blk	918@143.00
Dwight	4 Heref	806@140.00
Dwight	7 Heref	1000@134.00

HEIFER CALVES — 325-550 lbs

Wamego	5 blk	341@170.00
Junction City	7 mix	390@160.50
Tampa	3 blk	438@159.00
Wamego	9 blk	448@158.50
Waverly	3 blk	381@157.00
Junction City	25 blk	468@150.50
Allen	3 bwf	543@150.00
Blue Rapids	3 bwf	465@150.00
Wamego	9 blk	488@148.00
Havensville	3 blk	468@145.50
Waverly	3 blk	465@143.00
Cedar Point	7 Long HX	396@125.00
Cedar Point	4 Long HX	343@123.00

HEIFERS — 550-1,075 lbs

Baldwin City	13 blk	556@154.00
Shawnee	21 blk	573@153.50
Allen	6 bwf	695@152.00
Shawnee	4 Cross	572@149.00
Junction City	17 blk	551@144.00
Mayetta	4 Cross	705@143.00
Onaga	12 blk	667@143.00
Alta Vista	8 blk	807@142.50
Mayetta	3 blk	818@142.00
Onaga	8 blk	738@141.50
Blue Rapids	9 blk	694@141.00
Junction City	9 Cross	601@139.50
Dwight	5 Heref	881@127.00
Mayetta	6 blk	804@123.00
Dwight	3 Heref	896@120.00
Topeka	3 blk	1066@118.00

BULLS — 1,225-2,600 lbs

Seneca	1 Cross	1260@107.00
Manhattan	1 blk	1230@100.00
Burns	1 blk	1335@84.50
Randolph	1 Cross	1945@75.00
Linwood	1 blk	2155@74.00
Alma	1 blk	2090@73.00

EMMETT

Emmett	1 blk	2050@65.00
Council Grove	1 blk	1925@65.00
Alma	1 blk	1840@62.50
Waterville	1 Heref	2600@62.50
Leavenworth	1 rd Ang	1575@61.50
Wamego	1 blk	1515@61.00

COWS & HEIFERETTES — 775-1,750 lbs

Riley	1 blk	930@133.00
Blaine	2 blk	940@129.00
Seneca	1 bwf	900@123.50
Council Grove	1 blk	785@122.00
Netawaka	1 blk	1035@118.00
Perry	1 blk	1220@116.00
Waterville	1 Heref	965@101.00
Hoyt	1 Cross	935@99.00
Seneca	1 bwf	980@86.00
Enterprise	1 blk	1465@65.00
Lincolnville	1 blk	1620@63.00
Alma	1 blk	1720@62.50
Linwood	1 blk	1560@62.00
Linwood	1 blk	1280@61.75
Council Grove	1 blk	1295@60.50
Enterprise	1 blk	1745@60.50
Vermillion	1 blk	1610@60.00
Alta Vista	1 blk	1375@60.00
Waverly	1 blk	1255@60.00
Tampa	1 blk	1095@59.50
Manhattan	1 blk	1515@59.50
Alta Vista	1 blk	1300@58.50
Tampa	1 blk	1575@57.50
Holton	1 blk	1385@57.00
Manhattan	1 bwf	1735@57.00
Manhattan	1 Cross	1275@57.00
Burns	1 blk	1230@57.00
Basehor	1 blk	1495@56.50
Bennington	1 blk	1130@55.50
Alta Vista	1 Heref	1335@54.75
Onaga	1 blk	1705@54.00
Alma	1 blk	1330@54.00
Blaine	2 blk	1250@54.00
Hoyt	1 blk	1070@53.50
Goff	1 blk	1365@53.50
Emmett	1 blk	1410@53.00
Basehor	1 bwf	1305@53.00
Abilene	1 blk	1345@52.50
Enterprise	1 blk	1360@52.25
Hoyt	1 blk	1090@52.00
Hoyt	1 Cross	1200@51.50

For our special cow sale held Wednesday, Dec. 13th, a large offering of cows and bred heifers were well received by a good crowd of buyers. Cows and heifers with size, type, and disposition were in very good demand.

COW/CALF PAIRS

		AGE	
Seneca	15 blk	2-3	@2650.00
Pomona	7 blk	2-3	@2525.00
Pomona	3 blk	4	@2475.00
Pomona	10 blk	3-4	@2400.00
Matfield Green	4 blk	3-4	@2225.00
Leonardville	3 blk	3-4	@2225.00
Alta Vista	6 blk	2-4	@2175.00
Junction City	13 blk	4-6	@2150.00
Alta Vista	4 blk	4	@2150.00
Matfield Green	6 blk	5-6	@2125.00
Matfield Green	6 blk	6	@2100.00
Tampa	2 blk	3	@2050.00
Valley Falls	2 blk	4-5	@1975.00
Leavenworth	4 rd Ang	2	@1925.00
Matfield Green	3 Cross	7-8	@1900.00
Junction City	4 blk	5-8	@1850.00
Junction City	10 blk	2	@1840.00
Randolph	2 blk	4	@1810.00
Linwood	6 mix	6-8	@1775.00
Junction City	3 blk	8	@1750.00
Matfield Green	3 blk	8	@1700.00
Hoyt	5 blk	7-8	@1625.00
Junction City	2 blk	6-7	@1600.00

Pomona

Pomona	2 blk	SS	@1425.00
Linwood	5 blk	SS	@1425.00
Tampa	2 blk	8	@1385.00
Junction City	4 Cross	OO	@1350.00
Linwood	3 blk	BM	@1300.00
Seneca	3 Cross	SS	@1250.00

BRED COWS

		AGE BRED	
Kansas City	15 blk	3 5	@1900.00
Kansas City	25 blk	3 5-6	@1850.00
Kansas City	50 blk	3 5-6	@1825.00
Kansas City	20 blk	3 5-6	@1820.00
Kansas City	20 blk	3 5-6	@1800.00
Netawaka	23 blk	2 6-8	@1800.00
Netawaka	10 blk	2 7-8	@1785.00
Netawaka	10 blk	2 7-8	@1775.00
Stromsburg	5 rd Ang	2 6-7	@1775.00
Kansas City	10 blk	3 5-6	@1750.00
Blaine	17 blk	4 5-6	@1750.00
Stromsburg	15 rd Ang	2 6-7	@1750.00
Kansas City	5 blk	3 5-6	@1710.00
Stromsburg	6 rd Ang	2 6-7	@1700.00
Lost Springs	23 blk	3-4 7-8	@1700.00
Blaine	13 blk	2-4 6-7	@1675.00
Canton	15 blk	2 7-8	@1650.00
Blaine	13 blk	2-4 6-7	@1625.00
Canton	14 blk	2 7-8	@1625.00
Stromsburg	18 rd Ang	2 6-7	@1625.00

Stromsburg

Stromsburg	17 rd Ang	2 6-7	@1600.00
Blaine	17 blk	5-6 6-7	@1585.00
Wamego	11 blk	5-6 6-7	@1575.00
Blaine	13 blk	2 5-6	@1550.00
Wamego	12 blk	3-4 6-8	@1550.00
Gridley	21 rd Ang	2 6-7	@1550.00
Lost Springs	10 blk	5-6 7-8	@1525.00
Gridley	5 rd Ang	2 6-7	@1510.00
Manhattan	11 blk	2 7-8	@1510.00
Blaine	12 blk	2 6-7	@1500.00
Manhattan	12 blk	2 7-8	@1500.00
Wamego	6 blk	5-6 6-7	@1485.00
Wamego	7 blk	4 6-7	@1460.00
Americus	27 blk	2 6-7	@1450.00
Lost Springs	10 blk	7-8 7-8	@1450.00
Melvorn	10 blk	2 7-8	@1435.00
Wamego	5 blk	5 5-6	@1425.00
Herington	5 Cross	5 5-6	@1425.00
Americus	20 blk	2 6-7	@1410.00
Melvorn	5 blk	2 7	@1410.00
Wamego	11 blk	5-6 6-7	@1400.00
Wamego	10 blk	3-4 6-7	@1375.00
Blaine	9 blk	7-8 6-7	@1300.00
Linwood	5 Cross	5-6 4-6	@1260.00
Lost Springs	5 blk	SS 7-8	@1210.00
Westmoreland	7 blk	7 5-7	@1175.00
Randolph	5 blk	SS 7-8	@1175.00
Blaine	8 SS	6-7	@1100.00

EARLY CONSIGNMENTS FOR DEC. 22

- 70 choice reputation homeraised Angus & SimmAngus strs, 775-800 lbs
- 45 blk & blk Baldy strs & hfrs, weaned, 2 rds shots, 600-750 lbs

EARLY CONSIGNMENTS FOR DEC. 29

- 45 blk & CharX strs & hfrs, weaned 60 days, Spring shots, 550-700 lbs
- 35 choice reputation Angus hfrs, weaned & shots. 600-700 lbs
- 20 blk strs & hfrs, 21 days weaned, 2 rds shots, 300-450 lbs

SELLING 12:00 NOON

- 80 Big fancy OCV South Dakota origin Angus 1st calf hfrs A-I bred April 17 to LBW Hoover Excitement Angus bull for Jan 25 calving, cleaned up LAU Angus calving ease bull, 2 rds Scour Bos & Vibrio Lepto

EARLY CONSIGNMENTS FOR JAN. 5

- 90 bwf & Hereford strs & hfrs, 2 rds shots, longweaned, 500-600 lbs
- 25 blk strs & hfrs, green, long weaned, 550-700 lbs
- 23 blk & bwf strs & hfrs, weaned, 2 rds shots, 550-575 lbs
- 20 blk & bwf strs & hfrs, weaned, 90 days, 2 rds shots, no implants, 600-725 lbs
- 100 choice blk & bwf strs & hfrs, weaned in Oct., 2 rds shots, 550-750 lbs

SPECIAL COW & BRED HEIFER SALE

WED., JAN. 17 starting at 11:00 AM

- 20 big blk & bwf cows, 5 yrs to older w/ late Sept.-Nov. Angus calves by side. Cows running back w/Fink Resource Angus bull since Dec. 5th.
- 25 choice homeraised OCV Angus 1st calf hfrs AI bred to LBW Angus Dash Sitz due Feb. 4th. Clean up bull also Dash Sitz in for 65 days.
- 20 homeraised SimmAngus & Angus cows bred to Angus & SimmAngus bulls for Feb. 15-April 15 calves.
- 15 big gentle OCV pelvic measured Heref., bwf, & red neck 1st calf hfrs bred to Hoft LBW red Angus bulls for late March & April calves.
- 15 blk 2nd calf hfrs bred to Hereford bulls for March-April calves.

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Kansas Hay Market Report

Hay market activity slow; demand moderate to good for alfalfa and moderate for grass hay. Offerings of grinder hay light and continually difficult to locate, with prices trending higher for alfalfa and firm for grass hay. According to the U.S. Drought Monitor, conditions have continued to deteriorate in Kansas, as areas of abnormally dry (D0) and moderate drought (D1) expanded in response to below-normal precipitation and above-average temperatures during the past 30 to 60 days. The abnormally dry (D0) category increased to 63.37 pct, while moderate drought (D1) increased to 15.72 pct. 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.

Southwest Kansas

Dairy alfalfa, grass hay, grinding alfalfa and ground/delivered steady; movement slow. Alfalfa: horse, small squares 240.00-250.00. Dairy, .85-.95/point RFV, Supreme 155.00-175.00, Premium 155.00-165.00, Good 135.00-155.00. Stock or Dry Cow alfalfa, 110.00-120.00. Fair/Good grinding alfalfa, 120.00-130.00. Ground and delivered locally to feedlots and dairies, 140.00-150.00. Grass hay: Bluestem large squares 80.00-90.00. Brome, none reported. The week of 12/03-12/09, 8,877T of grinding alfalfa and 695T of dairy alfalfa were delivered. Cornstalks: large round 55.00-65.00. The average paid by feedlots on December 1 for alfalfa ground and delivered was 132.15, up 2.17 from last month, usage was 778T/day, up 1.97 pct, and total usage was 23,346T.

South Central Kansas

Dairy alfalfa, grass hay, grinding alfalfa, ground/delivered steady, alfalfa pellets steady to 5.00 higher; movement slow. Alfalfa: horse, small squares 240.00-245.00. Dairy, .85-.90/point RFV. Supreme 155.00-165.00, Premium 150.00-160.00, Good 130.00-150.00. Stock cow alfalfa, 130.00-135.00 delivered. Fair/Good grinding alfalfa, 100.00-110.00 with instances at 125.00-130.00. Ground and delivered locally to feedlots 130.00-140.00. The week of 12/03-12/09, 3,886T of grinding alfalfa and 719T of dairy alfalfa were delivered. Alfalfa pellets: Sun Cured 15

pct protein 160.00-170.00, 17 pct protein 170.00-180.00, Dehydrated 17 pct 207.00-217.00. Grass hay: bluestem, large rounds 65.00-70.00; Brome: large rounds 70.00-75.00, small squares 105.00-115.00. Sudan large rounds 80.00-90.00. Teff, small squares 6.25-6.75 per bale, large squares 115.00-125.00 delivered, large rounds 65.00-75.00. Cornstalks: large rounds 55.00-60.00, cornstalks ground and delivered 60.00-70.00, Straw large squares 50.00-60.00, large rounds 50.00-55.00. Milo stalks 50.00-55.00. The average paid by feedlots on December 1 for alfalfa ground and delivered was 132.83, up 7.94 from last month, usage was 330T/day, up 6.45 pct, and total usage was 9,910T.

Southeast Kansas

Dairy alfalfa, grass hay, grinding alfalfa and ground/delivered steady; movement slow. Alfalfa: horse or goat, 210.00-220.00. Dairy .80-.90/point RFV. Stock cow alfalfa 100.00-110.00 with an instance at 125.00-135.00. Fair/Good grinding alfalfa 90.00-100.00. Ground and delivered, 105.00-115.00. Grass hay: bluestem, premium small squares 105.00-120.00. Good, mid and large squares 80.00-100.00, large rounds 60.00-70.00. 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, mid squares 50.00-60.00.

Northwest Kansas

Dairy alfalfa steady; grinding alfalfa and ground/delivered 5.00 higher; movement slow. Alfalfa: small squares, 5.00-6.00/bale. Goat, 170.00-180.00. Dairy, Premium/Supreme .80-.95/point RFV. Stock cow, fair/good 90.00-100.00. Fair/good grinding alfalfa, 85.00-95.00. Ground and delivered locally to feedlots and dairies, 100.00-105.00.

North Central-Northeast Kansas

Dairy alfalfa, grinding alfalfa steady, grass hay steady to 5.00 higher, ground/delivered 10.00 higher; movement slow. Alfalfa: horse, small squares 9.00-10.00/bale. Dairy .95-1.05/point RFV, Supreme 175.00-195.00, Premium 170.00-185.00, Good 150.00-170.00. Stock Cow, good 110.00-120.00. Fair/Good, grinding alfalfa, 100.00-110.00 with an instance at 120.00. Ground and delivered, 125.00-140.00. Grass hay: bluestem, small squares 5.00-6.00/bale, large squares 95.00-105.00, large rounds 65.00-75.00. Brome: Good, small squares 6.00-7.00/bale delivered, mid and large squares, 105.00-115.00, good large rounds 75.00-80.00. Sudan large rounds 70.00-75.00; Milo Stalks: large rounds 40.00-55.00; Straw: small squares, 4.00-5.00/bale, large squares 75.00- 85.00, large rounds 65.00-75.00. Certified weed-free grass mulch small squares 4.00-5.00/bale, large rounds 45.00/bale.

***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

Lighthizer defends U.S. agriculture at WTO Ministerial

U.S. Wheat Associates (USW) thanks U.S. Trade Representative Robert Lighthizer for his efforts to defend U.S. agriculture against attempts to weaken the World Trade Organization (WTO) rules on domestic support in agriculture. The Buenos Aires Ministerial would be a failure if the trade liberalizing mission of the WTO were to take a massive step backwards through a permanent exemption for market price supports for certain major agriculture producers.

India and other countries have attempted to create a permanent loophole for certain types of price support programs associated with state-run stockpiling programs. These types of price supports can be highly trade-distorting, violating both WTO rules and the spirit of trade liberalization that the organization is meant to embody.

Worse, by holding the entire trade negotiating system hostage to demands to weaken commitments on agriculture, these countries are undermining the WTO and exacerbating the institutional challenges it faces.

Domestic support negotiations are a non-starter for U.S. agriculture without market access liberalization. For example, India's bound tariff rate on wheat is 100 percent, giving it more than enough policy space to restrict all wheat imports. U.S. tariffs are much lower in virtual-

ly all products.

To be clear, USW does not object to holding public stocks for food security, which is critical for all countries. Public stockholding has always been included in the Agreement on Agriculture's "Green Box" of non-trade distorting support, but with the recognition that administered prices (i.e. price supports) should be properly notified considering their potential to distort trade. There is no such restriction on purchases for public stocks using market prices.

U.S. farmers are firmly committed to open markets and continuing productive negotiations at the WTO and other forums to improve the global trading system. Giving in to misguided attempts to weaken the system while holding hostage all other negotiations is a recipe for failure far greater than the lack of a ministerial declaration in Buenos Aires. U.S. agriculture needs a strong, vibrant WTO, but WTO rules need to be strengthened, not weakened. If the only outcome in agriculture at the Buenos Aires ministerial were to be the creation of a massive, permanent loophole for the most trade distorting programs, the ministerial would be a failure.

U.S. Wheat Associates and 13 other agriculture organizations recently sent a letter to USTR in advance of the ministerial.

American Hereford Association releases BOLT genetic evaluation

The American Hereford Association (AHA) released the first updated expected progeny differences (EPDs) and corresponding accuracies using the Biometric Open Language Tools (BOLT) genetic evaluation software Dec. 4. The new genetic evaluation also includes two new traits, Sustained Cow Fertility (SCF) and Dry Matter Intake (DMI), and updated profit (\$) indexes.

"It's long been our goal to provide Hereford breeders the most advanced and reliable genetic evaluation possible," says AHA president Kevin Schultz. "This new genetic evaluation gives us one of the best tools to identify breed-leading genetics at a faster pace than ever before."

Due to the industry-leading Whole Herd Total Performance Records (TPR™) program, in its 17th year, and the current 53,000 Hereford genotypes on record, the AHA is poised for a stronghold in the DNA era, making Hereford cattle even more predictable.

Last year the Association pursued a genetic evaluation overhaul to allow for better use of genomics in its evaluation.

"BOLT provides a more robust evaluation by calculating true accuracy on animals," says AHA chief operating officer and director of breed improvement Shane Bedwell.

Utilizing BOLT, all factors associated with contemporary group makeup will be accounted for in the calculation of true accuracy. This genetic evaluation system moves away from a full multi-trait model, decoupling models to better estimate traits of interest. It also modifies contemporary group structure to allow for as much data as possible to affect the evaluation.

In addition, BOLT utilizes a cutoff strategy which only includes animals born after 2001 and animals related by three generations of pedigree.

"A genetic evaluation backed solely by Whole Herd TPR data strengthens the evaluation and takes out selection bias that occurred pre-Whole Herd TPR," Bedwell says.

Hereford breeder Jack Holden, Valier, Mont., was a member of the advisory committee – comprising of cattlemen and the scientific community – who was tasked with reviewing the

new genetic evaluation.

"The process of generating the new genetic evaluation was really outstanding, and I feel comfortable with where we're at now," Holden says. "BOLT will give us better, more accurate indications of genetic potential in our animals. Any time we can identify that quicker, along with finding cattle that fit phenotypically, we can make faster genetic progress to improve our herd."

New traits and updated \$Indexes

Released with the new genetic evaluation are two new traits: SCF and DMI. The AHA's new SCF EPD is a prediction of a cow's ability to continue to calve from three years of age through 12 years of age, given she calved as a two-year-old. The EPD is expressed as a deviation in the proportion of the ten-possible calving's to twelve years old expressed as a probability.

"The new SCF EPD is a powerful tool," Schultz says. "In a commercial cow herd, longevity and fertility are profit drivers. We're providing a new tool for that purpose."

Feed intake records from AHA research projects and breeder data collection have been analyzed in a genetic evaluation to predict DMI EPDs. Reported in pounds of feed consumed per day, this EPD characterizes genetics for intake, with a lower numeric value being associated with less feed consumed on a dry matter basis.

SCF and DMI will now be included in the AHA \$Indexes, along with other economically relevant traits (ERTs), including carcass weight (CW) and mature cow weight (MCW).

DMI and CW will be included in all three AHA \$Indexes to help predict the cost associated with feed inputs and measure the end-product pounds that are critical for profit.

"SCF will replace scrotal circumference as the predictor of fertility and be a large contributor to both maternal indexes," Bedwell says. "Adding these ERTs into the profit indexes will provide a more robust and comprehensive selection tool for commercial producers to select Hereford bulls to be used on Angus-based cows."

EPDs will be released once a week, an increase in frequency from the previous ten times a year.

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Sims to host Real Farming Today Expo in Osborne

Sims Fertilizer and Chemical is excited to announce their first annual Real Farming Today expo in Osborne. They would like to invite you to hear what some of the leading experts in the farming in-

dustry have to say about farming today. Speakers include: Bill Jacobs, Strategic Account Manager for Rosen's Inc.; Paul Schrimpf, Executive Editor of *CropLife Magazine*/Meister Media; Dallas Pe-

terson, Kansas State University Agronomy; Kent Spor, Kansas Department of Agriculture.

"We thought it was important and timely, to provide information about paraquat safety and effi-

cacy, resistant weeds, and the future of banvel-related products," said Ryan Delaney. "We received questions all season long pertaining to these topics, so we found people with answers to come share

their knowledge here in Osborne."

The expo is being held January 9th at 405 Industrial Ave. from 9 a.m.-3 p.m. Admission is \$15 in advance or \$20 at the door. Lunch will be pro-

vided and is sponsored by UMB Bank, Bayer, Valent, Rosens Inc, BASF, FMC, Dow, Alligare, Drexel and AmVac. RSVP at 800-821-4289.

Calcium to phosphorus ratio in pig diets established by new study

The amount of digestible calcium included in pig diets has a direct impact on phosphorus digestibility, but the optimum ratio between the two minerals has not yet been found. In a recent study from the University of Illinois, scientists have established a first approximation of that ratio for 25 to 50 kilogram pigs.

"Because calcium is an inexpensive ingredient, the thinking was that we could add as much as we wanted. We discovered several years ago that may not be a good approach, because if you increase calcium in the diet, you reduce absorption of phosphorus," says Hans Stein, professor in the Department of Animal Sciences and the Division of Nutritional Sciences at U of I. "As phosphorus availability goes down, so does the pigs' growth performance. Feed intake, and therefore body weight gain and feed efficiency, goes down."

Stein and his collaborators formulated 20 corn-soybean meal-based diets, varying in calcium and phosphorus concentration, and fed them to 240 pigs over four weeks. Diets were formulated to contain 0.15, 0.31,

0.39, or 0.47 percent standardized total tract digestible (STTD) phosphorus and 0.13, 0.27, 0.42, 0.57, or 0.72 percent STTD calcium. These values represented 48 to 152 percent of the STTD phosphorus requirement and 27 to 173 percent of the total calcium requirement.

By the end of the four-week trial, the researchers were able to determine pig growth performance, in terms of average daily gain and gain to feed, as well as incorporation of the minerals into bone.

In a separate trial, 120 pigs were fed the same 20 diets for two weeks. For these animals, urine, fecal, and blood samples were analyzed for calcium and phosphorus concentrations.

"The results confirmed what we've seen before. If you feed too much calcium, in particular with low or marginal phosphorus in the diet, pig growth performance goes down," Stein says. "We still need to do more work to determine the optimum ratio between the two, but we have definitely confirmed that the ratio is very important."

Chain saw chaps, protective gear help woodcutters avoid injury

If you are looking for a holiday gift for anyone who owns a chain saw, consider chain saw safety chaps, said University of Missouri Extension horticulture specialist and woodcutter Katie Kammler.

"A \$100 pair of chain saw chaps is well worth it when you compare it to the cost of a hospital emergency room visit," Kammler said.

Conventional jeans or pants do not protect against chain saw injury.

ries.

Chain saw chaps have an outside layer of fabric that protects against minor damage. The inner layer is made with long, loose ballistic fibers designed to wrap around the chain saw's drive socket, halting the chain.

Kammler and Missouri Department of Conservation Fire Program supervisor Ben Webster recently taught a class on chain saw use and safety at the Pearls of Production: Women in Agriculture conference.

ture conference.

Oil and dirt degrade the effectiveness of the pants, so cleaning is required. Don't put them in a washing machine, said Webster. Use soap, water and a brush to wash them by hand.

Kammler also gives the following safety recommendations:

- Tuck drawstrings of hooded sweatshirts and pants away so they won't come into contact with the chain saw.
- Pull long hair back so

it cannot become entangled in the chain saw.

- Wear lightweight leather gloves. Some chain saw gloves contain protective fabric.

- Hard hats protect your head from falling limbs. Choose one with a face guard to avoid eye injury, or use OSHA-approved safety glasses if your helmet does not have a face guard.
- Earplugs or muffs protect ears from permanent hearing loss. Noise from some gas-powered

chain saws can exceed 100 decibels.

- Trim clothing free of ragged edges so it does not snag on limbs or in the saw.

- Work boots with high tops and steel toes protect your feet. Never wear athletic shoes into the woods.

- Never work alone.
- Do not work in a tree or on a ladder or other insecure support. Also, do not overreach to make a cut.

- Avoid operating a chain saw when using

medication or alcohol, or when you are under mental or physical stress. The risk of injury is lower when you are alert, well-rested and healthy.

- Match your saw to your ability and comfort level.

- Maintain your saw regularly and check it before each use.

- Keep a basic first aid kit stocked with sterile, absorbent gauze pads in your vehicle.

Senate Agriculture Committee studies Kansas' leadership in securing nation's plant and animal health

With Kansas State University president General Richard Myers' critical testimony on the remaining challenges to agriculture security before the U.S. Senate Agriculture Committee, U.S. Sen. Pat Roberts (R-Kan.) said the nation must continue to be vigilant against threats to American agriculture and may address improvements to security as part of the next Farm Bill.

"General Myers' testimony before the Agriculture Committee today re-emphasizes the vision we had 18 years ago when then K-State President John Wefald testified before the Senate Agriculture Threats Subcommittee, saying that our nation needed better agro-defense and that Kansas and K-State could step up to fulfill this role," Roberts said. "Now today, just as we did then, we must continue to look ahead, invest in and evaluate measures to better protect our

food supply, our economy and our public health."

Roberts, chairman of the Senate Agriculture Committee, invited Myers to testify at a hearing titled: Safeguarding American Agriculture in a Globalized World.

In his testimony, General Myers said, "Much must be done to safeguard American agriculture in a globalized world. Three-quarters of the U.S. agriculture and food-critical infrastructure is not well-protected from potentially catastrophic biological events."

Myers shared 13 specific recommendations to the committee, including adding additional security clearances, investing in workforce development, better coordination, improved intelligence and more strategic plans for research continuity.

General Myers concluded his remarks saying, "Congress must enact en-

forceable statutes before it's too late."

Roberts also invited former Sen. Joe Lieberman (D-Conn.), co-chair of the Blue Ribbon Study Panel on Biodefense, to testify.

"The good news is that a national biodefense strategy is in the works and focusing on many of these issues," Lieberman said. "This committee can help promote those efforts in the Farm Bill."

The Committee also heard from Dr. Doug Meckes, a former practicing veterinarian and DHS official tasked with leading the agency's agro security work, and current state veterinarian for North Carolina.

"As I am certain you all are aware," Meckes said, "numerous animal agriculture groups, animal science organizations, and veterinarians support a new Animal Disease and Disaster Prevention Pro-

gram for inclusion in the 2018 Farm Bill."

Also testifying before the Committee was Dr. Raymond Hammerschmidt, professor of Plant, Soil And Microbial Sciences at Michigan State University.

"Because of global trade, we are at risk of introducing new pests and pathogens as well as variants of endemic species," Hammerschmidt said. "Thus, the threat to plant systems can come from many different directions, and the need for proactive detection and diagnostic technologies, and

enhanced preparedness at all levels is more important than ever before."

Concluding his remarks Roberts said, "Today, we will commit to the record updated information regarding agriculture security, begin to examine any needed changes in this arena, and continue work on these evolving challenges. There are several key questions for us to explore."

For more information on Roberts' extensive work to improve the nation's ability to detect, deter and respond to threats to agri-

culture, visit www.roberts.senate.gov/NBAF/



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Registration now open for 2018 World Meat Congress

For the first time in more than twenty years, the world's premier gathering of red meat industry leaders is coming to the United States. Hosted by the International Meat Secretariat (IMS) and the U.S. Meat Export Federation (USMEF), the 22nd World Meat Congress will be held in Dallas, Texas, May 30-June 1, 2018.

The World Meat Congress is a biennial event, with the 2018 theme being "Trusting in Trade." USMEF CEO Emeritus Philip Seng notes that the conference presents an opportunity to highlight the essential role international trade plays in the growth and viability of the global red meat industry.

"The IMS is composed of representatives of about 30 countries, sharing information about how the industry can work together to be more trade-progressive," Seng said. "At the World Meat Congress, we expect to discuss and debate critical, timely issues related to globalization and economics, as well as the evolving priorities of our customers and how the red meat industry can better meet the needs of the consumer of tomorrow."

While World Meat Congress participants compete intensely for global market share, Seng explains that there are many areas in which they share common interests.

"This is an opportunity to draw from the world's foremost experts on topics such as health and nutrition, production technologies, animal care and sustainability – issues that demand our full attention if the red meat industry is going to continue to expand and thrive," Seng said.

IMS President Guillaume Roué said the 2018 World Meat Congress will appeal to a broad range of participants whose professional interests are impacted by trade policy, as open meat trade is crucial to improving livelihoods and food security, and for meeting sustainable development goals.

"From industry to government to meat science and academia, the World Meat Congress is a one-of-a-kind event and the benefits of attending are substantial," said Roué, who is also president of INAPORC, France's interprofessional pork industry organization. "We are excited to co-host this year's conference with USMEF and anxious to bring the event to the United States at a time when the world is especially interested in the U.S. approach to agricultural trade."

Registration, lodging and other details are available from the World Meat Congress website. Participants who register by March 14 will qualify for the Early Bird rate. Guest speakers and a more detailed meeting agenda will be available soon.

For USMEF members, the World Meat Congress will also serve as the annual USMEF Spring Conference, with standing committee meetings and a USMEF general session scheduled for Wednesday, May 30. Members with questions may email Jackie Boubin or call 303-623-6328.

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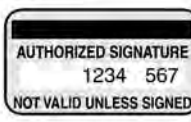
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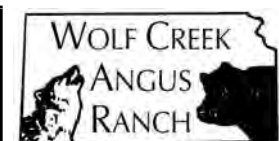


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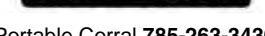
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Yard & Garden Tips

By Gregg Eyestone

The Need for Watering

It has been a dry fall. We are around four inches behind for the year. The best gift we can give our landscape is that of water. Dragging out hoses is time-consuming but it will be worth the effort. All living things rely on water for survival. Although plant requirements are reduced during the off-season, a certain level of moisture will be needed to avoid stress and even winter death. Dry winter months can kill plants that are susceptible. By monitoring your landscape, your lawn and landscape plants will have a better chance greening up beau-

tifully come spring time. Water one or two times per month during the dormant months when no moisture has fallen. The air temperature would ideally be above 40 degrees and the soil can't be frozen. It is important to have good soil moisture as plants start to break winter dormancy. Plants that have been in the ground less than three years are more susceptible to injury. Evergreen and broadleaf evergreens continue to use moisture during the winter and need special attention. Established lawns and plants that are exposed to sunny

and windy conditions will need to be watered. Generally, water around the root system until the water has moved six to eight inches into the soil. This depth provides moisture to the crowns and a vast majority of the feeder roots of plants. Trees should be soaked more deeply. Water slowly so it will soak in near the plants. A few plants can easily be watered by using a bucket or watering can. Hoses and attachments are the common equipment to use when watering during the winter months. Remember to remove all hoses and attachments

Fresh-cut Christmas trees remain a family favorite

For some folks, it's just not Christmas without a fresh-cut Christmas tree in the house, giving off a fragrance that a pine-scented candle just can't ... hold a candle to. Even if you own a well-made, pre-lit artificial tree, this might just be the year for something different. "I think the appearance and aroma of a real Christmas tree makes the holiday season complete," said K-State Research and Extension forester Charles Barden. "Here in Kansas, Christmas tree growers are located throughout the state. It can be a fun family activity to visit your local Christmas tree farm this holiday season to choose and cut your very own special tree. Many farms also offer hay rides and other activities on the weekends between Thanksgiving and Christmas."

While a locally grown fresh-cut tree is an option, it's probably more common to find fresh-cut trees at temporary Christmas tree lots, as well as at grocery stores, nurseries and other retailers. Barden said when you've chosen a tree, you'll want to take it for a quick test drive. The needles on a fresh tree should be green and flexible — if you bend a few needles they should straighten back out. The needles should not stay bent or break.

Pick up the whole tree and drop it just a few inches, let the stump hit the ground. If only a few yellow needles fall out, that's okay. If a lot of olive-green needles fall out, you should probably move on. When you lift up the tree, does it seem heavy for its size? "That indicates a high moisture content, that the tree is holding water," Barden said. A heavy tree is a moist tree, and that's a good thing.

When you get the tree home, whether it was purchased at a local farm or as a pre-cut tree, Barden advises sawing off the bottom inch or two of the stump. "This helps reopen any pitch-clogged pores, so the tree can more easily absorb water." Place the tree in a tree stand or bucket, and add at least a gallon of fresh water. Barden cautions that the first 24 hours, a newly installed fresh tree can draw up as much as a gallon of

water. "Be ready to add water to the stand or bucket," he said. "After that, a fresh tree will 'drink' about a quart a day."

Barden said the "Christmas tree solutions" that are sold really don't provide any benefits. "Some people recommend placing a penny or an aspirin in the water to reduce mold growth, but this does not really seem to benefit the tree," he said. "Just use fresh, clean water. "Also, place the tree away from radiators or heat vents that might cause the tree to dry out prematurely."

In good conditions, Barden said, a fresh-cut tree can stay fresh for two weeks, maybe even three. "That's why I kind of cringe a little bit when I see the trees come out on Thanksgiving," he added, "because by New Year's Eve, even the best trees will be losing a lot of needles."

When you're done with your tree, there are better places for it than the local landfill, Barden said.

Go fish — Some parks will weigh down old Christmas trees and sink them into ponds and lakes, to become fish habitats.

Spread it around — Larger cities will have an organized collection day, or a collection location for old trees. The trees are then ground up and used for mulch. Alternatively, you can strip off and cut some of the smaller branches for your own flowerbeds and shrubs.

One for the birds — "Some people like to put them out in the backyard and put bird food on or around them to give the little bit of cover and shelter for their feathered friends," Barden said.

One end-of-Christmas "tradition" that Barden strongly discourages is using the trunk of the tree and/or larger branches in the fireplace. "Some people feel that burning a Christmas tree in their fireplace is a good way to get a little extra excitement. These trees have a lot of pitch pockets in them and they can throw sparks like firecrackers across your living room. But 'Christmas tree firewood' is not something we want to do," Barden said.

Commodity organizations support science-based trade regulations at WTO Ministerial

Members of the U.S. Grains Council (USGC), U.S. Soybean Export Council (USSEC), U.S. Wheat Associates (USW), USA Rice, the National Corn Growers Association (NCGA), the National Sorghum Producers (NSP) and the National Barley Growers Association (NBGA) welcomed a joint statement issued from 17 countries participating in the 11th Ministerial Conference of the World Trade Organization (WTO) in Buenos Aires, Argentina, emphasizing the importance of supporting farmer access to the full

range of tools and technologies available and opposing regulatory barriers lacking sufficient scientific justification.

"Having in mind the importance of transparency and predictability to international trade, we call on all Members to strengthen the implementation of the WTO [Sanitary and Phytosanitary] Agreement by reinforcing the work of relevant international standards organizations and ensuring the scientific basis of SPS measures is sound," the statement reads.

"The development and application of sound SPS measures is needed to support farmers' choice in tools that can expand agricultural production and facilitate access to food and agricultural products, and also to safeguard human, animal and plant health."

Government officials from Kenya, Uganda, Costa Rica, the Dominican Republic, Chile, Canada, Colombia, Argentina, and the United States delivered remarks in favor of the joint statement of understanding on Dec. 12, 2017, during a side event to the

main WTO meetings.

Representatives from the Inter-American Institute for Cooperation in Agriculture (IICA), the United Nations' Food and Agriculture Organization (FAO), the Brazilian Confederation of Agriculture and Livestock (CNA), the International Soy Growers Alliance and MAIZALL, an international maize alliance, also provided supporting comments.

The statement demonstrates global support for all farmers and the tools and innovations they need to protect their crops from devastating diseases and destructive pests while delivering safe food sustainably to the world's consumers. The signatories take a step forward in calling out countries that undermine farmer choice through regulatory barriers that are not scientifically justified.

Recognizing the "central importance of risk analysis to assess, manage and communicate risks of concern associated with pesticide use in order to protect public health while enabling the safe use of pesticides and facilitate trade in food and ag products," these countries remained committed to expanding knowledge and capacity for developing countries in pesticide maximum residue levels (MRLs). Ultimately, common understanding will help facilitate bilateral and multilateral efforts to assess and manage risk concerns in a more scientific, transparent and harmonized manner.

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STEERS/BULLS

300-400# \$181.00-\$169.00
400-500# \$193.00-\$158.00
500-600# \$166.00-\$150.00
600-700# \$165.25-\$145.00
700-800# \$161.50-\$145.25
800-900# \$155.75-\$140.00
900-1000# \$145.10-\$132.50

HEIFERS

300-400# \$180.00-\$159.00
400-500# \$164.00-\$146.00
500-600# \$155.50-\$127.00
600-700# \$146.25-\$135.00
700-800# \$143.00-\$130.00
800-900# \$125.00-\$123.00

HFRETES

780#-1660# \$121.00-\$68.00
COWS-HIGH YIELDING
2000#-1270# \$64.00-\$55.00
COWS-LGT WT & LOW YIELDING
1700#-1160# \$54.50-\$47.00

BULLS

2160-1335# \$80.00-\$63.50

EARLY CONSIGNMENTS FOR 12/21/2017

1 DONKEY

2 BLK COWS - 5-6 MO BRED AGED

30 MIX STRS/HFRS 450-550# WV HR

15 BLK STRS/HFRS 500-600# WV HR

23 MIX STRS/HFRS 600-650# WV HR

120 BLK & CHAR STRS/HFRS 550-700# WV HR

120 BLK STRS/HFRS 600-850# WV HR

70 BLK HFRS (RQ) 600-700# WV HR

45 RED & BLK HFRS 600-750# WV HR

80 BLK & CHAR STRS/HFRS 600-850# WV HR

60 BLK STRS 875-900# WV

HOLSTEIN SPECIAL - DECEMBER 28

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Greg Anderson 785-747-8170
Waterville, KS

Trevor Lundberg 785-770-2271
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Coffee, Cookies and Conversation Series set to begin

The Shawnee County Extension Office and the Shawnee County Conservation District with assistance from the Natural Resources Conservation Service will host a series of four educational trainings on the following dates; the locations and topics are listed below.

These presentations will have a special emphasis for local crop and livestock producers at each of the programs.

Each program is a free event open to interested land owners, crop and livestock producers. Thanks to our sponsors: Landmark National Bank, Shawnee County Farm Bureau, Kansas In-

surance, Frontier Farm Credit and Premier Farm and Home.

If you have questions or would like to RSVP, call Shawnee County Extension at (785) 232-0062 or e-mail Leroy Russell at lrussell@ksu.edu. We hope to see many of you attend these important presentations at the Coffee, Cookies and Conversation Series 2018.

Ponds maintenance: aquatic problems – fish, plants

When: Thursday, January 18 – 1:00-2:30 p.m.

Where: Rural Water District #3, 4926 SW Wanamaker Road, Topeka

Speakers: Richard Sanders, Kansas Depart-

ment of Wildlife, Parks & Tourism

Weed suppression, resistant weeds and increasing beneficial cover
When: Wednesday, February 7 – 1:00-2:30 p.m.

Where: Shawnee County Extension Office, 1740 SW Western Avenue, Topeka

Speakers: John Welborn, Shawnee County Weed Department

Dr. Anita Dille, Kansas State University, Weed Ecology

Leasing, fence laws, easements, LLCs & estates

When: Thursday, February 22 – 1:00-3:00 p.m.

Where: Shawnee County Farm Bureau, 3801 SW

Wanamaker Road, Topeka

Speakers: Forrest Buhler, Kansas State University, Kansas Agriculture Mediation Services

Shon Robben, Arthur-Green, LLP
Soil health test plot tour

When: Tuesday, March 13 – 9:00-10:00 AM

Where: 9626 NW 21st Street, Topeka, Park along 21st Street

Speakers: Francis Kelsey, Northwood Farms
Sara Fredrickson, Natural Resources Conservation Service

Please RSVP by the day before the event to ensure that we have plenty of supplies.

Young Cattlemen's Conference applications available, deadline Jan. 12

Once again, the Angus Foundation will sponsor a young Angus leader to attend the National Cattlemen's Beef Association (NCBA) Young Cattlemen's Conference (YCC). The application deadline is Jan. 12, 2018, and the application can be found on the Angus Foundation website.

The YCC offers young leaders a once-in-a-lifetime opportunity to experience all aspects of the beef industry firsthand. Attendees participate in a weeklong nationwide tour of the beef production chain from the ranch to the packing plant, through marketing and regulatory affairs, and ending at consumer food-service. Along the way, they also get to meet other movers and shakers in the beef industry.

"We are thrilled to sponsor one outstanding young Angus breeder to attend the Young Cattlemen's Conference," said Milford Jenkins, Angus Foundation president. "I encourage anyone interested in learning more about the beef industry to apply for this unique opportunity."

The Angus Foundation covers travel costs and registration fees for one attendee. Applicants must be between 25-50 years old, an active member in good standing with the American Angus Association and also must be an active NCBA member.

Kansas Cattlemen's Association hosts final regional meeting

Kansas Cattlemen's Association, in conjunction with Ed Graham Agency-American Family Insurance, hosted a regional cattlemen's meeting in Fort Scott to discuss industry topics on December 5, 2017. The meeting took place at the Ellis Fine Arts Center. A free USA Beef supper was catered by the Butcher Block for those who attended the meeting.

Tyler Dupy, KCA executive director, discussed topics related to legislation and regulation that are currently of focus by KCA, including but not limited to the 2018 Farm Bill, Electronic Logging Device Mandate, Animal Disease Traceability, Kansas School Funding Formula, Corporate Farming Bans Repeal, and Beef Sustainability.

"There are many critical issues facing independent cattle producers, the ag community, and our rural communities. We appreciate so many people taking the time out to discuss these topics. We need producer involvement," Dupy stated.

The meeting opened with State Senator and 2nd District Congressional candidate Caryn Tyson. Senator Tyson explained her career in Topeka, and her refusal to vote for a retroactive tax increase. She explained her belief that Kansas needs a true agriculturalist in Washington, and how she is the only candidate legitimately involved with farming and ranching.

Dr. Drew Crisler of Fort Scott Veterinary Center provided a discussion of various Bovine Reproductive Services provided by the center in coordination with ReproLogix. Aside from exams, pregnancy checking, and synchronization services, Dr. Crisler discussed most specifically Convention Embryo Transfer, In Vitro Fertilization, Fetal Sexing, and Embryo Biopsy.

Conventional Embryo Transfer works by producing, in vivo, viable embryos from genetically superior

donor cows for transfer into recipient cows. Using superovulation and insemination, the embryos can be collected by non-surgical flush, and transferred either as fresh or frozen embryos. Advantages include accelerated rate of genetic improvement, consistent results, facilitates import/export, and genetic evaluation.

In vitro fertilization produces numerous viable embryos from genetically superior cows for transfer into recipient cows. Oocyte are collected ultrasonically, and maturation, fertilization, and development are conducted in the laboratory. The embryo transfer can then be done with fresh embryos or frozen. No hormone use is required, and you may be able to overcome some reproductive anomalies as well as maximize use of expensive semen. The process is generally repeated much faster than traditional, and the donor cows are worked less.

Fetal sexing services provides for the opportunity to determine calf's sex prior to birth. Advantages include marketability of calves, identification of freemartins, and provides for better management decisions. Procedures need to be completed in a window of 60 to 90 days of gestation, to gain highest level of accuracy of 95%.

Colby Flatt of Joplin Regional Stockyards discussed service offerings at the sale barn, projects, and services that are coming up in the future.

Proud sponsors of the event included: Ed Graham Agency of American Family Insurance, Kansas Cattlemen's Association, ReproLogix™, HydraBed by Triple C, Inc., R&R Equipment, Inc., Union State Bank, Fort Scott Livestock Market, Fort Scott Veterinary Center, AgChoice, Mills Feed & Supply, Joplin Regional Stockyards, Castagno Oil Co., Livestock Nutrition Center, Coffeyville Livestock Market, and Forms One.

HARLEY GERDES 33RD ANNUAL NEW YEARS DAY CONSIGNMENT AUCTION

MONDAY, JANUARY 1, 2018 — 9:00 AM
LOCATED ON 75 HWY, NORTH EDGE OF LYNDON, KS (30 MILES SO. OF TOPEKA)
No small items, Be On Time! Tractors & Misc. equip. lined in rows together.

TRACTORS

2004 CHALLENGER MT-285B, MFD, 3 pt., pto, w/ldr, 2,331 hrs.
2013 NH T4-75, CA, MFD, 3 pt., pto, 245 One Owner Hrs., w/TL-655 ldr., Super Nice
1999 NH TS-100, CA, 3 pt., pto, 5,130 hrs.
1995 AGCO ALLIS 9655, CA, 3 pt., pto, 3,296 One Owner Hrs.
2005 JD 5325, CA, MFD, 3 pt., pto, 3,035 One Owner hrs.
2003 JD 6320, CA, 3 pt., pto, 6,763 One Owner hrs., w/72" side mower
1993 JD 7800, CA, MFD, 3 pt., pto, 7,750 hrs., Clean
1992 JD 4760, CA, 3 pt., pto, 8,340 hrs.
1989 JD 3155, CA, MFD, 3 pt., pto, 4,546 hrs.
1983 JD 4450, CA, MFD, p.s., 3 pt., pto, w/JD 740 ldr., 4,519 hrs.
1982 JD 4640, CA, quad, 3 pt., pto
1982 JD 4240, CA, quad, 3 pt., pto, 5,350 hrs.
1980 JD 4240, CA, quad, 3 pt., pto, 8,663 Two Owner Hrs.
1976 JD 4430, CA, p.s., 3 pt., pto, 8,440 One Owner Hrs.
1974 JD 4630, quad, 3 pt., pto, 7,399 hrs.
1969 JD 3020, 3 pt., pto, 9,700 hrs.
1969 JD 3020, LP, 3 pt., pto
1968 JD 4020, 3 pt., pto, Needs work
JD 630, gas, pto, Nice
JD 60, gas, 3 pt., pto, Nice
2004 CIH MXU-110, CA, 3 pt., pto, 5,889 One Owner Hrs.
1997 CIH MX-110, Rops, MFD, 3 pt., pto, w/ldr.
1991 CIH 5140, CA, MFD, p.s., 3 pt., pto
1987 CIH 885, Rops, 3 pt., pto, 4,519 hrs.
1981 IH 1086, Rops, 3 pt., pto
1979 CASE 2390, CA, p.s., 3 pt., pto, 4,877 hrs.
1978 IH 1086, CA, 3 pt., pto
1977 IH 1086, CA, 3 pt., pto, 4,751 One Owner Hrs., Nice
1974 IH 1066, CA, 3 pt., pto
1974 IH 1066, CA, 3 pt., pto, 8,175 hrs.
1968 IH 856, cab, f.h., pto, 5,523 hrs.
1968 IH 856, cab, f.h., 3 pt., pto
IH 5088, CA, 3 pt., pto
IH 966, f.h., pto, 7,999 hrs.
IH 656, gas, hydro, f.h., pto
IH 400, gas, f.h., pto
IH B-275, 3 pt., pto
1989 WHITE 120, CA, 3 pt., pto, 3,179 One Owner Hrs.
1978 WHITE 2-135, CA, 3 pt., pto, 3,576 hrs.
1978 WHITE 2-135, CA, 3pt., pto
1986 FORD 8210, CA, MFD, 3 pt., pto, 4,548 hrs.
1984 FORD 545, cab, 3 pt., pto, 3,484 hrs.
1979 FORD TW-10, CA, 3 pt., pto, 8,064 hrs.
FORD 7600, Rops, 3 pt., pto, 1,220 One Owner Hrs.
FORD 6610, Rops, 3 pt., pto, w/ldr.
FORD 4610, Rops, 3 pt., pto
FORDSON-MAJOR, 3 pt., pto, w/ldr.
1978 MF 2675, CA, 3 pt., pto, 3,316 hrs., no reverse
1974 MF 1135, CA, 3 pt., pto
MF 65, 3 pt., pto
MF 35, 3 pt., pto
1976 VERSATILE 850, Series 2, CA, 18.4x38 duals, 8,733 hrs., Good
1976 VERSATILE 850, Series 2, CA, 30.5x32 tires, 8,545 hrs.
1982 DA 8010, CA, 3 pt., pto, 5,646 hrs., Clean
1978 AC 7000, CA, 3 pt., pto, 18.4x38 duals, Needs work
AC XT-190, 3 pt., pto
KUBOTA MX-5100, Rops, 3 pt., pto, 622 hrs.
KUBOTA L-3710, HST, MFD, 3 pt., pto, 4,213 hrs.
FARMALL 560, gas, f.h., pto (for parts)
FARMALL H, gas, pto, w/buzz saw (in barn for several yrs.)
FARMALL H, pto
FARMALL M, gas, pto

COMBINES & HEADS

1993 CIH 1666, CA, hydro, chopper, 4x4, 2,188 hrs., Local Machine
1980 AC F-2, CA, chopper, w/15' platform
1982 JD 8820, CA, hydro, 4,403 hrs., chopper
1971 JD 3300, cab, 1,082 hrs.
2010 CIH 2020, 30', flex
2009 CIH 2020, 25', flex
2008 CIH 1020, 25', flex, Nice
2001 CIH 1020, 30', flex, w/ Cray air reel
1998 CIH 1020, 25', flex
2009 JD 622, flex
2006 JD 620, flex, Nice
1980 JD 222, flex
1980 JD 216, flex, Good
JD 216, flex
2004 CIH 2208, 8x30, hyd. deck corn head
1999 CIH 1064, corn head
1982 JD 643, corn head
JD 643, cornhead, needs work
1982 JD 643-A, row head
UNVERFERTH, 22', head trlr. Head trlr.

LAWN & REC

ARTIC CAT 300, 4x4, ATV
KUBOTA F-2560 mower, w/72" deck

PLANTERS & DRILLS

2) KINZE 2000, 6x11, no till, Good
KINZE, 4x36, no till, Low Acre
JD 8300, 21x7, Clean
2) JD 7200, 6x30, no till, vac, Clean
JD 7200, 6x30, finger
JD 7000, 6x30, plateless, no till
WHITE 6100, 6x30, vac, Low Acre, One Owner
GP, 24"x10", no till
GP, 24"x8", no till
GP, 14"x7", 3 pt., w/seedler, nice
CRUSTBUSTER 3400, 18"x10", DD
JD 8300, 23"x7", DD, w/seedler
JD 8300, 21"x7", DD

COMING FROM ALMA

1977 JD 4230, CA, quad, 3 pt., pto, 8,082 hrs., Good
1974 JD 4230, CA, quad, 3 pt., pto, Good
JD 8300, 18x7, DD, drill, w/seedler, Nice
1998 JD JD 466, net wrap, rd. baler, 12,463 bales, Clean
VERMEER WR-24, wheel rake, Nice
IH 400, 6x30, planter
JD BW, 13', disc
IH 45, 18', hyd. wing, field cult.
AC, 9 shank, pull type, chisel
JD BWA, 13', disc
IH 470, 14', disc
JD RG-630, cult.
AUTOMATIC, mist blower
JD, 150 gal. 3 pt., sprayer
JD 400, grinder mixer, shedded
JD F-145, 4x16, plow
BUSHHOG, 6', pull type, shredder
HUTCHINSON, 6"x36", portable, auger
JD, 4 btm., 3 pt., plow, for parts
Pr. 18.4x34, clamp on duals
Loading chute
Hay trlr., 8'x20', gooseneck
HUSKEE 225, gravity box
Running gear
Ramps, 20'x80', heavy duty
5) JD slab weights
6) JD front weights
4) Double discs, for drill

WAGONS

Heider, 6x10, box wagon
A&L 47, 500 bu., grain cart
UNVERFERTH 4500, grain cart
BUSHHOG, 7 1/2x12", metal box wagon
BALZER, 6 1/2x16", silage wagon
DUAL 400, silage box
2) PARKER, gravity boxes
2) Running gear
JD 1075 gear

HAY EQUIPMENT

2012 JD 568, Mega Wide, net wrap, rd. baler, Good
JD 467, Mega Wide, net wrap, rd. baler, Clean
JD 347-W, sq. baler, Super Nice

NH 273, sq. baler
AGCO, 12 wheel, rake
VERMEER WR-V14, wheel rake
2) NH 56, rake
NH 258, rake
NI rake
MF rake
NH 499, 12', hydra swing
NH 499, 12', swather
JD 1209, 9', swather
Hay elevator, 20'x30'
Hay Elevator, 24'
Bale fork, f.h.
2) Bale forks
Bale spear

CONSTRUCTION

2013 CASE SR-175, skid ldr., 721 hrs.
2012 CASE SV-300, CA, sid ldr., 1,624 One Owner hrs.
2004 CASE 60-XT, skid ldr., 1,185 hrs.
2003 CASE 40-XT, skid ldr., 885 One Owner hrs., Nice
CASE 60-XT, skid ldr.
2006 JD 317, skid ldr., 1,548 hrs.
1995 BOBCAT 773, skid ldr., 1,773 hrs.
BANDIT 150-XP, tree chopper, 607 hrs.
Skid ldr. Bucket, 70"

LIVESTOCK EQUIPMENT

JD 400, grinder mixer
IH 950, grinder mixer
IH 1150, grinder mixer
LORENZ 85H3, grinder mixer
GEHL 95, grinder mixer
FEED KING, 8', portable, creep feeder
GEHL 99, silage blower
KR, 4x10, feed wagon
KR, 4x10, feed wagon, Needs work

SHREDDERS

RHINO SE-7, 7'
JD 27, 15', pull type
BUSHHOG, 5', 3 pt.
WOODS, 7', 3 pt.
FORD, 6', 3 pt.
BMB, 6', 3 pt.
SERVIS, 5', 3 pt.
BUHLER, 15', grooming
CIH 1300, 7', sickle
SHULTZ, 14', flail
ALAMO, 15', for parts

LOADERS & BLADES

WESTENDORF WL-64, no brackets
WESTENDORF TA-46B, fits White
WESTENDORF WL-42, fits JD, w/valve
DUAL 3100, fits JD, w/valve
KOYKER K-5
KOYKER K-5, fits IH
JD 725
JD 158, Good
JD 48 ldr.
JD 48 w/7' blade, 5' bucket & hyd. valve
FARMHAND 228 ldr., fits IH
SIOUX ldr.
IH 2350, fits 856
IH 2350 brackets for 656
2) WESTENDORF grapples
JD 534, 10', dozer
2) JD 534, 9', dozer
RHINO 1500, 10', hyd.
BUSHHOG, 8', hyd.
9', hyd.
RINK, 9'
Rear blades 6' and 7'
MAHLNDRA, 6'

MISC. EQUIPMENT


ONAN 1200JC-R, 12KW/21 amp., diesel generator, 272 hrs., on trlr.
INGERSOLL-RAND, diesel air compressor, 356 hrs.
HOLLAND, 2 seat, transplanter
EZ FLOW, 10', fert. sprdr., w/seedler
EGEDAL, 6', fert. sprdr.
Irrigation hose and reel
FIVE STAR, post hole digger
Montgomery Wards, post pounder
CONTINENTAL, f.h., wire winder
Sprayer, 300 gal., pull type

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Cattle-feeding returns improving in 2017

Cattle-feeding profitability has been on a roller coaster ride the last couple of years, according to Purdue University Extension economist James Mintert. Estimated cattle-feeding returns calculated each month by Iowa State University Extension provide insight into the situation Corn Belt feeders face.

“According to the Iowa State data, which assumes that cattle are placed on feed each month with inputs purchased and fed cattle sold in the cash market without any risk management, cattle feeders suffered horrific losses in both 2015 and 2016,” Mintert says. “Losses continued throughout 2016 and still averaged a loss of

\$117 per head for a typical yearling-feeding program and a loss of \$216 per head for a typical calf-feeding program during 2016’s October to December quarter.”

The situation changed dramatically in 2017.

“Relying again on the Iowa State estimates, during the first nine months of 2017, feeding

returns for yearlings averaged +\$198 per head and +\$191 for calves,” Mintert adds. “The turnaround was even more dramatic when the monthly returns are examined, as monthly yearling returns actually reached +\$415 and calf-feeding returns climbed to greater than \$500 per head during May 2017.”

Livestock haulers set the bar high according to new audit

Livestock haulers have set the bar high when it comes to transporting cattle. That’s according to the latest Beef Quality Audit that examined time and distance traveled, trailer dimensions, and the number of cattle in each load.

Jesse Fulton, associate director of producer education at NCBA, says this was the first time the check-off-funded survey looked at the transportation of market steers and heifers.

The report indicates that, “cattle mobility has set the

Husker researcher explores incentives, nudges for coordinated land use

A three-year study conducted by Simanti Banerjee, assistant professor of agricultural economics at the University of Nebraska-Lincoln, offers insights about how producers can be incentivized to implement pro-environmental land use practices.

In an effort to conserve and restore natural habitat and other environmental functions, the U.S. Department of Agriculture has implemented Payment for Ecosystem Services schemes to encourage voluntary participation. In exchange for a yearly rental payment, producers enrolled in a PES scheme, such as the Conservation Reserve Program, agree to remove environmentally sensitive land from agricultural production or implement various practices on their working lands under the Conservation Stewardship Program.

While the schemes address enrollment and acreage objectives, Banerjee’s research considers enrollment across adjacent properties that may require coordination between neighboring producers. For instance, the habitat and water quality on a producer’s parcels adjacent to a neighbor’s CRP land may affect the bio-

diversity of the enrolled, environmentally sensitive land.

“Since these programs are an integral part of the agricultural system of the U.S., scientific investigation is important to identify economic and non-economic mechanisms that can generate environmental benefits for agricultural communities and society at large,” Banerjee said.

Banerjee’s research considered the Agglomeration Bonus, which pays producers more if their neighbor implements the same environmentally friendly land use practice. Examples include riparian buffers, windbreaks or foraging patches for pollinators.

Two coordinating mechanisms were tested during the study. The first focused on money only, and varied the payment amounts based on the amount of coordination. The second format was not monetary, but nudged producers with information about land use practices of participants belonging to another community.

Results indicate that coordinated land use rates are higher if payments associated with coordination are higher, which aligns

bar high for future audits with almost 97 percent of those cattle coming off the truck with no lameness,” he said.

Those high marks can be attributed to the BQA practices used throughout the industry, Fulton said. And while livestock haulers have set the bar high, there is still room for improvement, notably the amount of trailer space for cattle.

“There is some bruising occurring in the trailer, and the cattle are a little taller than they used to be,” Fulton said. “Trailer design really needs to be looked at.”

with conventional economic thinking. Having information about outcomes of the Agglomeration Bonus scheme from other communities also improves coordination rates in both communities, meaning that the nudge is effective. This result is in line with behavioral economic findings. The mechanisms were tested on 144 university students in a lab-controlled environment. The next step for Banerjee’s research will be to conduct similar field experiments with producers.

“The combination of evidence from both lab and field studies is essential for making the case for implementing PES schemes with an Agglomeration Bonus format,” Banerjee said. “The experimental evidence I find would support a case to legislators to consider adopting this

policy as part of a local or federal conservation program.”

Banerjee said the study results highlight the role behavioral economics and economic experimentation can play in answering questions important to agriculture, the environment and society.

Evidence on cost effectiveness of PES schemes is mixed, which is why the information nudge Banerjee explored could be appealing to regulators. Fund disbursement from the schemes is subject to budget constraints, so being able to rely on information about land use choices of other producers without having to change payment amounts could be an affordable option.

The results of the study were published in the *American Journal of Agricultural Economics*.

KDEM, NWS offer tips to prevent wildfires

Dry conditions and brisk winds across the state have resulted in an increased risk of wildfires. As such, the Kansas Division of Emergency Management and the National Weather Service are advising Kansans to use caution and common sense to help prevent fires.

Because the best defense is a good offense, they offer the following fire prevention tips:

Refrain from burning trash or debris as strong winds can carry embers.

Do not use chimeneas or fire pits. Though small, one stray ember can cause a fire if carried by the wind to dry vegetation.

Extinguish smoking materials properly and dispose them in a trash can.

Protect your property by removing weeds and tall grass around your home. Remove leaves and other debris that collect around your property. Eliminate ladder fuels by pruning tree branches to within six feet of the ground. Remove flammable materials from underneath the house, decks and porches. Mow regularly to keep grass four inches or shorter, but do not mow in windy, dry conditions.

Have fire extinguishers on hand and train your family how to use them.

Secure all chains on trailers. A loose chain can cause sparks.

Farmers and ranchers should establish and maintain firebreaks around pastures and structures. Create a livestock evacuation plan.

If you accidentally start a fire, call for help immediately. It could quickly get out of control due to the high winds.

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K-State to host seven events around Kansas

With the new year, beef producers are anxious for the 2018 calf crop. In anticipation of calving season, Kansas State University Animal Sciences and Industry and K-State Research and Extension are planning a series of calving schools in January.

The program will outline the normal processes of calving. A.J. Tarpoff, K-State Extension beef veterinarian, explains the goals of the event are to increase knowledge and practical skills, and to increase the number of live calves born if they need assistance.

The schools will also share tips on when and how to intervene to assist the cow and how those times may be different when dealing with young heifers. Presenters will also demonstrate proper use of calving equipment on life-size scale.

“This is an excellent opportunity to ask questions and review the calving process,” Tarpoff adds. “We will discuss timelines on when to access calving cows, and when to call for help if things are not going well.”

Several of the meetings will also cover topics such as cow nutrition during the winter months, and managing cull cows.

Meetings scheduled include:

- Wednesday, Jan. 3, 6 p.m., Cloud County Fairgrounds, Concordia; RSVP to Washington County Extension Office at 785-325-2121.

- Tuesday, Jan. 4, 6 p.m., Oswego Community Center, Oswego; RSVP to Cherokee County Extension Office at 620-724-8233 or Wildcat District Extension Office at 620-429-3849.

- Tuesday, Jan. 9, 10 a.m., Kansas Wetlands Education Center, Great Bend; RSVP to Cottonwood Extension Office at 620-793-1910.

- Thursday, Jan. 11, Noon MST, Morton County Civic Center, Elkhart; RSVP to Crystal Bashford at 620-697-2558.

- Tuesday, Jan. 16, 6:30 p.m., Norton County 4-H Building, Norton; RSVP to Twin Creeks Extension at 785-877-5755 (Norton), 785-675-3268 (Hoxie) or 785-475-8121 (Oberlin). Program will cover opportunities for marketing cull cows.

- Thursday, Jan. 18, 6 p.m., Alta Vista Baptist Church, 402 Main St., Alta Vista; RSVP to Wabaunsee Extension at 785-765-3821.

More information about the Calving Schools is available at KSUBeef.org.

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SECTION 179 SAVINGS

100-174 HP TRACTORS

2008, Case IH PUMA 165, 3208 Hrs, Loader, Tag# 179900.....	\$79,500(WA)
2009, Case IH PUMA 125, 5060 Hrs, Susp. Cab, Tag# 179895.....	\$62,500(WA)
2013, Case IH MAXXUM 110, 1335 Hrs, Susp. Cab, Tg# 180340.....	\$79,900(WA)
2005, Case IH MXM130, 3250 Hrs, Loader, Tag# 179766.....	\$49,500(HR)
2004, Case IH MXM130, 4427 Hrs, Loader, Tag# 179762.....	\$49,500(HR)
2005, Case IH MXU125, 4347 Hrs, Loader, Tag# 172740.....	\$48,900(EL)
2006, Case IH MXU115, 4015 Hrs, Loader, Tag# 177336.....	\$34,900(WA)
1996, Case IH 5250, 4152 Hrs, 3 Remotes, Tag# 181381.....	\$34,900(EL)
2013, New Holland T6.175, 503 Hrs, Loader, Tag# 175954.....	\$82,900(WA)
2015, New Holland T6.175, 1584 Hrs, Loader, Tag# 180399.....	\$79,900(DC)
2014, New Holland T6.175, 805 Hrs, SuperSteer, Tag# 179607.....	\$79,900(GC)
2014, New Holland T6.175, 423 Hrs, SuperSteer, Tag# 179603.....	\$79,350(SY)
2013, New Holland T6.175, 536 Hrs, SuperSteer, Tag# 175053.....	\$72,900(EL)
2013, New Holland T6.175, 944 Hrs, Loader, Tag# 176706.....	\$71,500(WA)
2013, New Holland T6.165, 1980 Hrs, Loader, Tag# 177844.....	\$79,500(DC)
2013, New Holland T6.165, 517 Hrs, Loader, Tag# 176906.....	\$78,900(EL)
2013, NH T6.165, 962 Hrs, Semi-PowerShift, Tag# 175303.....	\$74,900(WA)
2013, NH T6.165, 851 Hrs, SuperSteer, Tag# 176001.....	\$70,900(DC)
2014, NH T6.165, 772 Hrs, Semi-PowerShift, Tag# 176010.....	\$70,500(WA)
2013, NH T6.165, 1046 Hrs, Semi-PowerShift, Tag# 179206.....	\$69,900(WA)
2013, New Holland T6.165, 381 Hrs, 3 Remotes, Tag# 174104.....	\$64,500(HR)
2011, New Holland T6070, 1749 Hrs, Loader, Tag# 176896.....	\$82,500(EL)
2007, New Holland T6070, 5430 Hrs, Semi-PwrShift, Tg# 178567.....	\$49,500(TO)
2013, New Holland T6070, 1465 Hrs, Semi-PwrShift, Tg# 176005.....	\$59,500(EL)
2005, New Holland TS135A, 2953 Hrs, Loader, Tag# 181401.....	\$49,900(GC)
2000, New Holland TS100, 5172 Hrs, 2WD, Tag# 178048.....	\$22,500(EL)
2000, New Holland TM150, 4340 Hrs, Loader, Tag# 177903.....	\$47,500(HR)
2015, New Holland T4.110, 250 Hrs, Loader, Tag# 179245.....	\$57,500(WA)
2015, New Holland T4.100, 364 Hrs, Loader, Tag# 179562.....	\$57,500(WA)
2015, Massey Ferguson 6615, 789 Hrs, Dyna6 Trans., Tag# 177665.....	\$79,900(MA)
2002, McCormick MTX110, 2041 Hrs, Loader, Tag# 177110.....	\$42,900(WA)
2008, McCormick MC115, 3135 Hrs, Loader, Tag# 181326.....	\$39,900(HR)

FEED WAGONS

2013, Knight RA136, 3 Auger, Scales, Tag# 179236.....	\$32,500(WA)
2014, Kuhn Knight 3130, 540 PTO, 3 Auger, Tag#181209.....	\$19,900(MA)
Henke 240, Feed Wagon, Tag# 181329.....	\$2,950(HR)
2012, Demco 5144, PTO, Scales, Tag# 181559.....	\$19,900(WA)
2008, Kelly Ryan 5X12, PTO, Stagecoach Box, Tag# 181675.....	\$6,900(WA)
2010, Supreme 700T, PTO, Scales Tag# 181210.....	\$32,500(WA)

GRAIN CARTS

Brent 774, 750 Bushel, Tag# 181302.....	\$17,500(WA)
2012, Demco 1400, 1400 Bushel, Like New, Tag# 178440.....	\$52,500(SY)
2016, Demco 850, 850 Bushel, Tag# 181148.....	\$34,900(WA)
Kinze 1040, 1040 Bushel, Tag# 181628.....	\$29,900(WA)
1991, Kinze 840, 840 Bushel, Tarp, Tag# 178073.....	\$25,500(EL)
1997, Parker 710, 700 Bushel, Tag# 180656.....	\$19,900(HR)

TREE SAWS & SHEARS

Dymax 5266D4, Tree Saw, Tag# 176046.....	\$5,995(HR)
DFM DFM3800, Tree Saw, Tag# 177039.....	\$4,750(HR)
2013, Longford HYD, Tree Saw, Tag# 178909.....	\$3,750(WA)
2010, MI TREE SHEAR, Tree Shear, Tag# 176873.....	\$4,900(EL)

COMPACT TRACK LOADERS

2016, BO T750, 960 Hrs, C/H/A, ACS System, # 180602.....	\$59,900(SY)
2014, BO T870, 910 Hrs, C/H/A, Hi-Flow, # 178934.....	\$59,500(MA)
2012, CATR320, 1416 Hrs, C/H/A, Hand Controls, # 175480.....	\$34,900(SY)
2015, CA TV380, 1125 Hrs, C/H/A, Hi-Flow, # 180733.....	\$49,500(WA)
2007, NH C190, 1100 Hrs, C/H/A, Hi-Flow, # 180859.....	\$24,000(DC)
2014, NH C238, 542 Hrs, C/H/A, Hi-Flow, # 179517.....	\$54,900(SY)
2015, NH C238, 1397 Hrs, C/H/A, Foot Controls, # 181237.....	\$47,500(WA)

SKID LOADERS

2016, Bobcat S770, 740 Hrs, C/H/A, ACS, Tag# 179952.....	\$49,900(MA)
2016, Bobcat S770, 740 Hrs, C/H/A, ACS, Tag# 180601.....	\$49,900(SY)
2014, BobcatS750, 229Hrs, C/H/A, Joystick, Tag#178706.....	\$42,500(MA)
2012, BobcatS750, 860Hrs, C/H/A, FootControls, Tag#179592.....	\$39,900(WA)
2014, BobcatS650, 2150Hrs, C/H/A, FootControls, Tag#178913.....	\$34,500(MA)
2013, Bobcat S630, 5000 Hrs, Tag# 181192.....	\$16,900(MA)
2015, Bobcat S590, 351 Hrs, C/H/A, ACS, Tag# 177965.....	\$37,500(WA)
2014, Bobcat S590, 3000Hrs, C/H/A, ACS, Tag# 181194.....	\$24,900(MA)
2015, CaseSV280, 430Hrs, C/H/A, Hi-Flow, Tag#181467.....	\$47,500(WA)
2005, Case 420, 3910 Hrs, Tag# 179340.....	\$22,500(EL)
2015, NHL230, 134Hrs, C/H/A, EH Controls, Tag# 178916.....	\$54,500(WA)
2014, NH L230, 338 Hrs, C/H/A, Hi-Flow, Tag# 174141.....	\$39,900(HR)
2014, NH L230, 208Hrs, C/H/A, FootControls, Tag#176668...	\$39,900(MA)
2014, NHL230, 350Hrs, C/H/A, FootControls, Tag#178659...	\$39,900(MA)
2012, NHL230, 296Hrs, C/H/A, FootControls, Tag#179601...	\$39,900(SY)
2013, NHL230, 396Hrs, C/H/A, FootControls, Tag#180760...	\$39,900(MA)
2012, NH L230, 792Hrs, C/H/A, FootControls, Tag#176379...	\$38,900(GC)
2012, NHL230, 602Hrs, C/H/A, FootControls, Tag#175810...	\$37,900(WA)
2012, NHL230, 1031Hrs, C/H/A, FootControls, Tag#174973...	\$35,900(WA)
2012, NHL230, 1280Hrs, C/H/A, EH Controls, Tag#176311...	\$35,900(TO)
2012, NHL230, 1170Hrs, C/H/A, FootControls, Tag#178887...	\$35,900(HR)
2016, NHL228, 220Hrs, C/H/A, FootControls, Tag#181505...	\$44,900(WA)
2014, NHL225, 2082Hrs, ROPS, FootControls, Tag#180111...	\$27,500(WA)
2011, NH LS190, 2319 Hrs, C/H/A, Tag#178943.....	\$34,900(WA)
2012, NHL220, 470Hrs, C/H/A, FootControls, Tag#176685...	\$30,900(MA)
2012, NHL218, 579Hrs, C/H/A, FootControls, Tag#177025...	\$27,900(HR)
2008, NHL190, 3528Hrs, C/H/A, FootControls, Tag#179075...	\$24,500(TO)
2001, NH LS190, 2319 Hrs, C/H/A, Tag#178367.....	\$19,900(WA)
1995, NH LX885, 5870 Hrs, Tag# 181182.....	\$12,500(MA)
2011, Caterpillar 252B3, 1160Hrs, C/H/A, Tag#180331.....	\$32,500(WA)
2014, John Deere 326E, 1820 Hrs, C/H/A, Foot Controls, Tag# 178596.....	\$29,500(TO)

ROUND BALERS

2007, Case IH RBX563, 5X6, Net/Twine, Tag# 175092.....	\$7,900(GC)
2007, Case IH RBX563, 5X6, Net/Twine, Tag# 170177.....	\$8,900(GC)
1991, Case IH 8460, 5X6, Twine, Tag# 181383.....	\$1,900(EL)
2015, NHRB560, 5X6, Net/Twine, Spec. Crop, Tag#179726.....	\$37,500(WA)
2016, NHRB560, 5X6, Net/Twine, Spec. Crop, Tag#180665.....	\$34,900(EL)
2015, NHRB560, 5X6, Net/Twine, Spec. Crop, Tag#178918.....	\$34,500(HR)
2014, NHRB560, 5X6, Net/Twine, Spec. Crop, Tag#180654.....	\$32,500(EL)
2014, NHRB560, 5X6, Net/Twine, Spec. Crop, Tag#180681.....	\$32,500(EL)
2012, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#180675.....	\$28,500(WA)
2010, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#180670.....	\$27,500(EL)
2011, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#176621.....	\$19,900(GC)
2013, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#179279.....	\$24,500(EL)
2012, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#180677.....	\$24,500(EL)
2013, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#175812.....	\$23,000(HR)
2009, NH BR7090, 5X6, Net/Twine, Tag# 180663.....	\$22,900(EL)
2011, NHRB7090, 5X6, Net/Twine, Spec. Crop, Tag#178926.....	\$22,500(EL)
2009, NHRB7090, 5X6, Net/Twine, Tag#180328.....	\$19,900(WA)
2010, NHRB7090, 5X6, Net/Twine, Tag#180696.....	\$19,900(EL)
2009, NHRB7090, 5X6, Net/Twine, Tag#181204.....	\$19,900(EL)
2008, NHRB7090, 5X6, Net/Twine, Tag#179356.....	\$17,500(MA)
2008, NHRB7070, 4X5, Twine, Tag#181562.....	\$12,500(TO)
2005, NH BR780, 5X6, Net/Twine, Tag#181233.....	\$9,500(WA)
1998, NH 664, 5X6, Net/Twine, Tag#177972.....	\$6,900(MA)
1994, NH 660, 5X6, Twine, Tag#181631.....	\$3,900(WA)

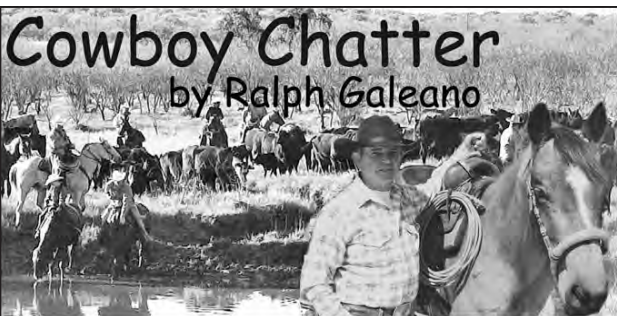
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The Buffalo Nickel

“All the soldiers were now killed.”

An article in *McClure’s Magazine* in September of 1898 described an interview with Chief Two Moon of the Northern Cheyenne tribe. The article was written by Hamlin Garland after he visited Two Moon’s home on the Rosebud River in eastern Montana. Chief Two Moon was a warrior who fought in many battles during the Sioux wars in the latter part of the 19th century. He was a little known Cheyenne chief who played a major role in the wars, most notably in the battle of the Little Big Horn where the Custer massacre took place. He commanded the Cheyenne at the Powder River battle in early June 1876. Two Moon was at the battle of Rosebud Creek and with Crazy Horse, he fought the battle of Wolf Mountain in January of 1877.

Two Moon described his part in the Custer massacre during his interview with Hamlin Garland for *McClure’s Magazine* twenty years after the battle. It is an interesting account from the Indian’s perspective. Here is Two Moon’s story. “That spring (1876) I was camped on Powder River with fifty lodges of my people. One morning soldiers charged my camp. They were in command of Three Fingers (Colonel McKenzie). We

were surprised and scattered, leaving our ponies. The soldiers ran all our horses off. That night the soldiers slept, leaving the horse’s one side; so we crept up and stole them back again, and then we went away. “We traveled far, and one day we met a big camp of Sioux at Charcoal Butte. We camped with the Sioux, and had a good time, plenty grass, plenty game, good water. Crazy Horse was head chief of the camp. Sitting Bull was camped a little ways below, on the Little Missouri River. Crazy Horse said to me, ‘I’m glad you are come. We are going to fight the white man again.’ “I said to Crazy Horse, ‘All right. I am ready to fight. I have fought already. My people have been killed, my horses stolen; I am satisfied to fight.’”

“About May, when the grass was tall and the horses strong, we broke camp and started across the country to the mouth of the Tongue River. Then Sitting Bull and Crazy Horse and all went up the Rosebud. There we had a big fight with General Crook, and whipped him. Many soldiers were killed – few Indians. It was a great fight, much smoke and dust. From there we all went over the divide, and camped in the valley of Little Horn. Everybody thought, ‘Now we are out of the white man’s country. He can live there, we will

live here.”

“I went to water my horses at the creek, and washed them off with cool water, then took a swim myself. I came back to the camp afoot. When I got near my lodge, I looked up the Little Horn towards Sitting Bull’s camp. I saw a great dust rising. It looked like a whirlwind. Soon Sioux horseman came rushing into camp shouting: ‘Soldiers come! Plenty white soldiers.’”

“I ran into my lodge, and said to my brother-in-law, ‘Get your horses; the white man is coming. Everybody run for horses.’ Outside, far up the valley, I heard a battle cry, Hay-ay, hay-ay! I heard shooting, too, this way (clapping his hands very fast). I couldn’t see any Indians. Everybody was getting horses and saddles. After I had caught my horse, a Sioux warrior came again and said, ‘Many soldiers are coming.’” “Then he said to the women, ‘Get out of the way, we are going to have hard fight.’”

“I said, ‘All right, I am ready.’ I got on my horse, and rode out into my camp. I called out to the people all running about: ‘I am Two Moon, your chief. Don’t run away. Stay here and fight. You must stay and fight the white soldiers. I shall stay even if I am to be killed.’ I rode swiftly toward Sitting Bull’s camp. There I saw the white soldiers fighting in a line. Indians covered the flat. They began to drive the soldiers all mixed up – Sioux, then soldiers, then more Sioux, and all shooting. The air was full of smoke and dust. I saw the soldiers fall back and drop into the riverbed like buffalo fleeing. They had no time to look for a crossing. The Sioux chased them up the

hill, where they met more soldiers in wagons, and then messengers came saying more soldiers were going to kill the women, and the Sioux turned back. Chief Gall was there fighting, Crazy Horse also.”

“I then rode toward my camp, and stopped squaws from carrying off lodges. While I was sitting on my horse I saw flags come up over the hill to the east like that (he raised his finger-tips). Then the soldiers rose all at once, all on horses, like this (he put his fingers behind each other to indicate that Custer appeared marching in columns of fours). They formed into three branches (squadrons) with a little ways between. Then a bugle sounded, and they all got off horses, and some soldiers led the horses back over the hill.”

“Then the Sioux rode up the ridge on all sides, riding very fast. The Cheyenne went up the left way. Then the shooting was quick, quick. Pop-pop-pop very fast. Some of the soldiers were down on their knees, some standing. Officers all in front. The smoke was like a great cloud, and everywhere the Sioux went the dust rose like smoke. We circled all round them – swirling like water round a stone. We shoot, we ride fast, we shoot again. Soldiers drop, and horses fall on them. Soldiers in line drop, but one man rides up and down the line – all the time shouting. He rode a sorrel horse with white face and white fore-legs. I don’t know who he was. He was a brave man.”

“Indians keep swirling round and round, and the soldiers killed only a few. Many soldiers fell. At last all horses killed but five. Once in a while some man would break out and run toward the river, but he

would fall. At last about a hundred men and five horsemen stood on the hill all bunched together. All along the bugler kept blowing his commands. He was very brave too. Then a chief was killed. I hear it was Long Hair (Custer), I don’t know and then the five horsemen and the bunch of men, may be so forty, started toward the river. The man on the sorrel horse led them, shouting all the time. He wore buckskin shirt, and had long black hair and mustache. He fought hard with a big knife. His men were all covered with white dust. I couldn’t tell whether they were officers or not. One man all alone ran far down toward the river, then round up over the hill. I thought he was going to escape, but a Sioux fired and hit him in the head. He was the last man. He wore braid on his arms.”

“All the soldiers were now killed, and the bodies were stripped. After that no one could tell which were officers. The bodies were left where they fell. We had no dance that night. We were sorrowful.”

“Next day four Sioux chiefs and two Cheyenne and I, Two Moon, went upon the battlefield to count the dead. One man carried a little bundle of sticks. When we came to

dead men, we took a little stick and gave it to another man, so we counted the dead. There were 388. There were thirty-nine Sioux and seven Cheyenne killed, and about a hundred wounded.”

“Some white soldiers were cut with knives, to make sure they were dead; and the war women had mangled some. Most of them were left just where they fell. We came to the man with big mustache; he lay down the hill towards the river (Custer fell up higher on the ridge). The Indians did not take his buckskin shirt. The Sioux said, ‘That is a big chief. That is Long Hair.’ I don’t know. I had never seen him. The man on the white-faced horse was the bravest man.”

* Two Moon surrendered his Cheyenne band at Fort Keogh in 1877 after the battle at Wolf Mountain. He was appointed head Chief of the Cheyenne Northern reservation by General Nelson A. Miles. Two Moon was used as a model by James Frasier for the very famous Buffalo Nickel in 1914. Two Moon died three years later at his home in Montana at the age of 70.

Contact Ralph Galeano at horseman@horsemanspress.com or www.horsemanspress.com

Kansas NRCS and KDA Division of Conservation providing \$1.4M financial assistance

To improve water quality impairments in the middle and lower Neosho River watersheds in Kansas, USDA’s Natural Resources Conservation Service (NRCS), Kansas Department of Agriculture-Division of Conservation (DOC) and other partners have joined in a Regional Conservation Partnership Program (RCPP) to offer financial assistance to help landowners institute water quality improvement conservation practices on their land.

NRCS is providing funding through the Environmental Quality Incentives Program (EQIP). There will be two fiscal year 2018 EQIP application evaluation periods for this RCPP project.

The first application evaluation period will be for applications received by January 19, 2018. The second application evaluation period will be for applications received by March 23, 2018.

In Kansas, portions of Cherokee, Labette, and Neosho Counties are the targeted areas where EQIP funds will be available for agricultural producers interested in implementing conservation practices. Funding will go toward water quality improvement practices such as terraces, grassed waterways, nutrient management, filter strips, grass plantings, as well as others.

For more information, go to the Kansas NRCS website www.ks.nrcs.usda.gov/programs or visit your local U.S. Department of Agriculture (USDA) Service Center. To find a service center near you, go to offices.usda.gov.

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JC LIVESTOCK SALES INC.

Wednesday Sale, Hogs NOON • Cattle 12:30 PM

Report from December 13, 2017:					
STEERS			19	480	150.00
4	265	213.00	7	542	144.50
2	428	199.00	26	571	142.50
2	433	194.00	2	748	139.50
2	518	186.00	16	698	138.00
5	521	184.00	1	965	131.00
6	597	172.00	4	1034	114.00
16	608	169.00	TOP BUTCHER COW		
32	577	163.50	\$59.75 @ 1,743 lbs.		
6	735	163.50	TOP BUTCHER BULL		
19	728	160.00	\$75.50 @ 2,020 lbs.		
14	777	157.50	BRED COWS: \$1,000		
2	808	138.50	PAIRS: \$1,075-\$1,300		
HEIFERS			PIGS: No Test		
9	365	175.00	SOWS: No Test		
2	405	174.50	Fat Hog Top: No Test		
11	471	152.50			
11	551	150.00			

UPCOMING SALE SCHEDULE

We will have a sale Wednesday, Dec. 20

We will NOT have a sale Wednesday, Dec. 27 due to Christmas Week!

We will have a sale Wednesday, Jan. 3, 2018!

CONSIGNMENTS FOR WEDNESDAY, JANUARY 10:

- Complete Herd Dispersal Mash O Ranch. Over 500 homeraised Angus bwf & rwf cows, all spring bred to Harms Angus bulls, 2 yrs & up.
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LYNN LANGVARDT

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Clay Center Field Representatives:

Tom Koch, 785-243-5124

Lance Lagasse, 785-262-1185

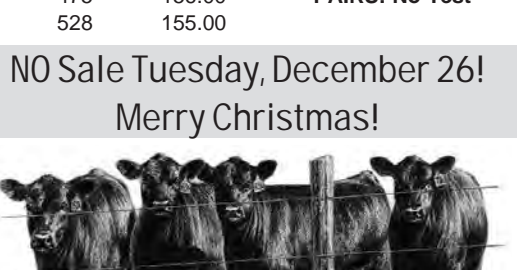
CLAY CENTER LIVESTOCK SALES INC.

Cattle sales Tuesday, 11:00 AM.

Report from December 12, 2017:					
STEERS			10	543	146.50
4	456	188.00	2	718	139.00
5	430	187.00	13	762	134.00
26	543	176.25	TOP BUTCHER COW:		
2	538	167.00	\$62.00 @ 1,595 lbs.		
5	608	163.00	TOP BUTCHER BULL:		
6	708	159.50	\$78.00 @ 2,250 lbs.		
10	789	155.00	TOP BUTCHER BULL:		
2	783	150.00	\$78.00 @ 2,250 lbs.		
1	830	142.00	TOP BUTCHER BULL:		
HEIFERS			BRED COWS:		
4	375	175.00	\$860 to \$1,010		
4	380	168.00	PAIRS: No Test		
9	448	159.00			
3	475	156.00			
3	528	155.00			

NO Sale Tuesday, December 26!

Merry Christmas!



EMPORIA LIVESTOCK SALE CO.

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SALE EVERY WEDNESDAY IN EMPORIA, KANSAS AT 11:00 AM

620-342-2425 or 800-835-7803 toll-free • Fax: 620-342-7741

Date: 12/13/17 Total head count: 1182. COWS: \$60-67.00; \$52-\$59.25; \$51 & down. BULLS: \$74-80.00

HEIFERS			8 mix	473@183.00
3 blk	367@177.00	5 bkbwf	510@182.50	
5 wf	332@169.00	15 bkbwf	560@177.00	
3 blk	340@165.00	3 mix	587@168.00	
6 red	398@158.00	3 blk	558@165.00	
6 blk	498@157.00	6 blk	596@164.00	
7 blk	554@149.50	14 mix	603@167.00	
12 bkbwf	563@144.50	14 bkbwf	619@161.00	
7 bkbwf	539@143.00	16 mix	627@161.00	
3 blk	570@137.00	26 mix	683@158.00	
18 blk	610@142.50	9 blk	661@153.00	
15 mix	666@139.75	3 mix	660@147.00	
21 bkbwf	671@139.25	4 blk	686@145.00	
22 mix	651@139.00	4 blk	630@144.00	
6 mix	671@137.00	30 mix	729@156.25	
22 blk	711@139.25	26 bkbwf	756@154.00	
12 mix	742@139.25	53 mix	776@149.75	
8 blk	741@137.00	11 blk	757@149.50	
13 bkbwf	732@136.50	12 blk	758@149.00	
5 blk	724@136.00	68 mix	720@148.50	
4 Char	776@125.00	67 mix	762@148.50	
13 blk	815@138.50	176 blk	789@148.25	
17 bkbwf	875@135.25	5 blk	793@145.00	
13 blk	882@134.25	59 mix	871@146.25	
5 mix	817@134.00	61 mix	858@145.50	
4 blk	900@116.00	33 mix	850@142.50	
STEERS			9 blk	911@145.50
11 bkbwf	456@190.00	18 blk	985@134.50	
4 blk	444@189.00	7 mix	1019@142.00	

EARLY CONSIGNMENTS FOR DEC 20th

- 300 blk red & Char strs, 700-850 lbs
- 300 blk red & Char strs, 750-850 lbs

NO SALE DECEMBER 27th

due to holidays! MERRY CHRISTMAS!

ANNIVERSARY SALE JANUARY 17th

- 36 blk & red strs & hfrs, longtime weaned, 600-800 lbs
- 62 blk & red strs, 750-825 lbs

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Cut by cut, beef value adds up

By Miranda Reiman

When you sell live cattle, you don't get an itemized sale ticket.

The check stub from a salebarn or even a packer may limit details to weight, price and head count.

But that doesn't mean the brisket brings the same value back as the loin.

Beef value source was the topic of a pre-conference program at last month's Range Beef Cow Symposium in Cheyenne, Wyo. The event was co-sponsored by the Certified Angus Beef® (CAB®) brand and Zoetis.

"The brand has to offer value across several cuts," said Gale Rhoads, CAB executive account manager. "If it wasn't bringing value to you as producers—as well as the foodservice distributors, restaurants, chefs and retailers, our brand wouldn't have been able to market over a billion pounds last year."

But how does the math work out?

You may be used to hearing about the Choice-Select spread, the value difference per hundredweight (cwt.) in boneless beef cut from carcasses of those grades. It averaged \$13 for the first three quarters of 2017.

"The cutout is primal values rolled up into one number," said Justin Sexten, CAB supply development director. On a 900-pound (lb.) carcass that's a \$115 difference between a Choice carcass and a Select.

"Even when the

Choice-Select spread narrows, the CAB-Choice spread adds value," Sexten said, noting a \$9.23/cwt. advantage for carcasses meeting the brand's 10 specifications during the same period. "That results in \$83 above the value of a Choice carcass."

Both weight of the primal and the cuts from it determine the share of overall value contributed by each part.

The loin is the top value-getter: 11% of brand premiums over Choice come from its tenderloin, strip and sirloin.

"Even though the chuck and round have lower-priced cuts, mass matters," Sexten said. In a CAB carcass, they account for about the same added value as the rib, at 6%.

Meat marketers are always looking for ways to add value to each primal, and Rhoads fabricated a top sirloin to demonstrate that.

"Sirloin is typically going to sell at a lower value, but with proper aging it can still be a wonderful eating experience, if the marbling is there," he said, noting purveyors may age it well beyond the industry standard 21 days. "It isn't going to be as tender as a tenderloin or a ribeye, but it will have the flavor profile of a good strip. Of course, you have to start with a higher-quality piece of meat—CAB or Prime—to make that happen."

Taking off the cap muscle or "coulotte" lends it

self to different applications, Rhoads said.

"If you've eaten at a Brazilian restaurant, they bring it out on the skewer and carve it tableside," he said. "Big pieces of meat that look like big ole C's when they fold them over. It's the cap off this sirloin."

Some retailers have started selling "center cut" sirloins, Rhoads said, and merchandizing them individually or as a 6-oz. or 8-oz. "each" instead of per pound or in multi-packs.

"The consumer has driven that, because they want to know what their cost is to feed their family," he said. They can sell a 6-oz. steak for \$5, when the entire cut was maybe selling for \$8.99/lb. "It's extra work, but it brought back more revenue for them and they created some extra sales."

At foodservice, that might be cut into a baseball steak or sold as a sirloin filet.

"The marbling they have in this top butt, compared to what most people are probably going to find in that filet...this will knock the filets off the table with flavor," Rhoads said.

It's all about finding more ways to please the consumer and earn their dollars.

"When beef marketers get creative in what they can deliver to end users, it's good for everybody," he said. "That value puts more money back into the entire chain, so that it filters back to the producer."

Despite growing supplies, this year sent strong quality signals through the chain, incentivizing producers who aim for the top grades, Sexten said.

3i Show date change announced

Western Kansas Manufacturers Association (WKMA) has announced a 3i SHOW date change beginning 2018! Surveys from farmers, producers, and others who attend the annual show indicate the best time for them to attend would be during the winter months. In response to the survey results, the 3i SHOW will immediately kick off new March dates beginning March 22-24, 2018.

Eddie Estes, WKMA president, stated "Doing the right thing for the exhibitors and their customers continues to be our focus, especially during these turbulent times in the Ag industry. Our goal with the new March dates is to provide a more convenient time for farmers and producers to be able to step away from their daily duties and connect with

exhibitors showcasing innovative products and services that can assist them."

The 3i SHOW will continue being held at the Western State Bank Expo Center in Dodge City. Show hours will be 8:30 a.m. to 5 p.m. Thursday and Friday, and 8:30 a.m. to 4 p.m. Saturday. Dates for the next five years will be:

March 22-24, 2018
March 21-23, 2019
March 19-21, 2020
March 18-20, 2021
March 17-19, 2022

For additional information, visit ww-3ishow.com, or contact the WKMA office directly toll-free at 877-405-2883 or locally at 620-227-8082. WKMA's office is located at 1700 E. Wyatt Earp in Dodge City, Kansas.

'Staying Competitive in the Swine Industry' is the theme for the K-State conference

Dr. Doug MacDougald, Southwest Vets, will discuss managing pig health with minimal antibiotic use in commercial pig production.

Ben Woolley and Ben Keeble, Sunterra Farms, will address opportunities and pitfalls of producing antibiotic-free pork.

Terry Nelson, Husky Hogs, will share his story of rebuilding after a catastrophe.

Dr. Gray Louis, Seaboard Foods, will focus on future trends impacting the swine industry.

Dr. Lisa Tokach, Abilene Animal Health, will provide life lessons learned while practicing with Dr. Steve Henry, who

recently retired after more than 40 years in swine practice.

The conference will take place at the Stanley Stout Center, 2200 Denison Avenue. The day begins with coffee and donuts at 9:15 a.m. and the program starting at 9:30 a.m. Lunch is included in the conference, which will end at 3 p.m.

Pre-registration is \$25 per participant and due by Jan. 30. Attendees can register at the door for \$50 per participant. More information, including online registration, is available at KSUSwine.org or contact Lois Schreiner at 785-532-1267 or lschrein@ksu.edu.

Sorghum Checkoff board directors sworn in, officers elected

Five Sorghum Checkoff board directors were sworn in during the December 13, 2017, board meeting in Lubbock, Texas.

Returning to the board are Verity Ulibarri of McAlister, New Mexico, and Carlton Bridgeforth of Tanner, Alabama. Newly appointed to the board are Klint G. Stewart, of Columbus, Nebraska; Shayne C. Suppes of Scott City, Kansas; and Charles Ray Huddleston of Celina, Texas.

The newly sworn in board members were appointed by the U.S. Department of Agriculture Secretary of Agriculture Sonny Perdue in December and will serve a three-year term.

"We are pleased to welcome both the new and returning directors to the Sorghum Checkoff," said Sorghum Checkoff executive director Florentino Lopez. "The board of directors are crucial in our efforts to create producer profitability, expand market opportunities and increase demand for sorghum, and we look forward to working with the appointed board of directors in creating success for our farmers."

New leadership was also elected during the December board meeting. Verity Ulibarri will serve as chairwoman, Jim Massey as vice chairman, Craig Poore as secretary and Carlton Bridgeforth as treasurer.

"I am excited to work with a great said of directors over the coming year," Ulibarri said. "The Sorghum Checkoff board of directors represents all sorghum farmers from across the U.S., and each director brings valuable ideas and experiences. We have a tremendous task before us, and I look forward to serving in this role."

Dale Murden of Harlingen, Texas; John Dvoracek of Farwell, Nebraska; and Adam Baldwin of McPherson, completed their terms as board directors. The exiting board directors were honored for their service to the Sorghum Checkoff at a ceremony on Dec. 12.

"We extend our sincerest gratitude to Dale, John and Adam for all of their work on the board," said Sorghum Checkoff CEO Tim Lust. "They have dedicated countless hours over many years to serving on the board and working hard to help bring profitability, growth and innovation to sorghum farmers and this industry."

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RECEIPTS FOR THE WEEK: 2340 CATTLE
TO VIEW OUR RESULTS PLEASE VISIT OUR WEBSITE
HOLTONLIVESTOCK.COM

Wishing Everyone a Very Merry Christmas
from all of Us at Holton Livestock Exchange, Inc.

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LOOKING FORWARD TO SERVING ALL OUR CUSTOMERS IN 2018!**

DECEMBER 26--CLOSED FOR HOLIDAY
JANUARY 2--REGULAR WEEKLY AUCTION--12 NOON
JANUARY 9--SPECIAL CALF & YEARLING AUCTION--12 NOON
JANUARY 16--REGULAR WEEKLY AUCTION--12 NOON
JANUARY 19--SPECIAL COW & BULL AUCTION--6 P.M.

Dan Harris, Auctioneer & Owner • 785-364-7137
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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 December 12th Sale:

Steers:		Heifers:	
300-400#	\$180.00-\$219.00	300-400#	\$152.00-\$187.50
400-500#	\$170.00-\$202.00	400-500#	\$136.00-\$175.00
500-600#	\$149.00-\$181.00	500-600#	\$125.00-\$164.50
600-700#	\$120.00-\$160.00	600-700#	\$118.50-\$152.00
700-800#	\$137.00-\$154.00	700-800#	\$124.00-\$147.00
800-900#	\$142.00-\$145.00	800-900#	\$124.50-\$136.75

Tues., Dec. 26th- NO SALES
Tues., Jan. 2nd- NO SALES
Sat., Jan 6th- Horse & Tack Sale
Tues., Jan 9th- Calf/Yearling Special

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 12-14-17. Head Count: 1,558.
Trend on Calves: Not enough calves for a good market test.
Trend on Feeder Cattle: Not enough feeders for a good market test. **Butcher Cows:** High dressing cows \$52.50-\$65; Avg. dressing cows, \$40-\$52.50; Low dressing cows, \$20-\$40. **Stock Cows:** Bred cows, \$850-\$1,825; Cow/calf pairs, \$1,100-\$1,950. **Butcher Bulls:** Avg. to high dressing bulls, \$72.50-\$90. **Trend on Cows & Bulls:** Butcher cows, \$1-\$2 higher; Butcher bulls, \$2-\$3 higher.
The run of cattle for 12-14-17 was mostly stock cows. The market on bred cows & cow/calf pairs was very good on a large run of quality cows!

Thank You to everyone that came out & supported our Special Cow Sale!
We will be closed Dec. 21 & 28 for Christmas!
Enjoy your Families this Christmas Season & we will see y'all January 4th, 2018!

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

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

BELLEVILLE 81 LIVESTOCK SALES
Junction Hwys 36 & 81 Belleville, Kansas

CATTLE SALES EVERY FRIDAY • 10:30 AM
Dec. 15th. Slaughter Cows Thin-Poor \$41-\$60; Better \$61-\$70; Bulls to \$84. A lot of Feeder Buyers with strong demand!

STEERS		HEIFERS	
500-600	\$157-\$175	450-550	\$154-\$170
601-700	\$152-\$170	551-600	\$151-\$168
701-800	\$151-\$163	601-700	\$137-\$155
801-935	\$147-\$162	701-900	\$141-\$150

NO SALE FRIDAY, DECEMBER 22
Merry Christmas!
YEAR END CATTLE SALE, FRIDAY, DEC. 29
GOOD TIME FOR SLAUGHTER COWS & FEEDERS!

SPECIAL FEEDER SALES:
FRIDAY, JANUARY 5 & 12. CONSIGN NOW!

FRIDAY, JANUARY 19:
Total Disp. for Dean & Linda Krueger, Reynold, NE, 402-768-2427, 60 blk cows, bred blk Feb., 25 blk hfrs, 1200, bred blk Feb., all homeraised. Very nice dispersal of Top Quality Reputation Gentle Cows.

Auctioneer Ethan Schuette 785-541-1027 • 785-527-2258
For Market Reports, and Early Listings
Website: Belleville81.com
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Thanks for your business!

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
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On Thursday, December 14 we had 911 head of cattle on a good market.

STEERS		HEIFERS		BULLS	
4 bkred	385@180.00	6 blk	697@145.00	5 bkbw	750@140.75
10 rdAng	501@171.00	9 bkbw	788@145.00	70 mix	765@140.25
6 bkbw	539@166.00	9 blk	1321@116.50	60 Brang	768@139.20
15 bkbw	604@159.75	6 rdAng	453@163.00	4 blk	676@137.00
5 bkbw	644@159.75	17 bkbw	453@156.00	5 bkred	697@135.00
12 rdAng	612@158.25	11 bkbw	475@153.50	5 blk	381@188.00
12 blk	621@153.50	6 bkbw	453@153.00	5 blk	440@181.50
17 bkbw	736@152.00	12 bkbw	552@150.25	6 blk	477@175.00
6 blk	667@151.50	5 bkbw	629@145.50	9 bkChr	510@170.50
10 blk	721@150.00	10 bkbw	705@143.00	4 blk	781@134.50

Butcher Cows: \$35-\$69.50, mostly \$55-\$64, steady to \$2 higher.
Butcher Bulls: \$61-\$80.00, mostly \$75-\$80, steady.
Packer Cows & Bulls selling very active.
Preg Cows: \$475-\$1,825; Pairs: \$1,550-\$2,000.

BUTCHER COWS		BUTCHER BULLS	
1 red	1380@69.50	1 Char	1790@82.00
3 blk	1272@67.50	1 blk	1820@80.00
1 red	1775@65.50	1 blk	1900@79.00
4 mix	1711@65.00	1 blk	1930@76.50
1 blk	1615@64.50	1 blk	1655@76.00
4 bkred	1464@64.00	1 blk	1820@76.00
3 bkChr	1540@64.00	1 blk	1910@76.00
5 bkred	1612@63.50	1 blk	
2 blk	1493@62.50		

NO SALE DECEMBER 21 MERRY CHRISTMAS!

SPECIAL END OF THE YEAR SALE DEC. 28
• 500 mixed str & hfrs, 650-900 lbs
• 200 mixed Packer cows
• 50 mostly blk fed cows

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

Prairie Fire Winery receives five medals at invitational wine competition

Prairie Fire Winery received a gold medal, two Silver medals, and two Bronze medals in the 17th Annual Jefferson Cup Invitational Wine Competition held in Kansas City, Mo.

The invitation-only competition was held November 17th and included wines from across the nation. Wine experts and judges from throughout the United States awarded a gold medal to Prairie Fire Winery's 2016 Grüner Veltliner Estate, silver medals to its 2015 Chambourcin Estate Barrel Reserve and the 2016 Traminette Dry, and bronze medals to both the 2016 Vignoles Estate Dry and the 2016 Horseplay Rosé.

"We were honored to have been invited to enter, and even more honored for our Kansas grown and made wines to receive the recognition they did," said winemaker Bob DesRuisseaux. "I am especially proud of our Grüner Veltliner Estate. Having fallen in love with the grape in



The Flint Hills of Kansas are well-suited for growing wine grapes, according to Bob DesRuisseaux of Prairie Fire Winery.

Austria, I had a feeling it would grow well in the Flint Hills. As the only one grown and produced in the Midwest, it is pleasing to see it being received so well."

Prairie Fire Winery continues to grow and expand its Flint Hills vineyards each year, and assist in the startup of several other area vineyards annually. The vineyard is

open to guests daily and easily accessible on the south side of I-70. "The soil and slopes of The Flint Hills are exceptional for wine grapes, says DesRuisseaux." "We are honored

to introduce our customers daily to our Kansas-grown and made wines. In each glass you are tasting the weather and the soil of that vintage. You can truly taste the Flint Hills."

Prairie Fire Winery grows 13 varieties of wine grapes and produces award-winning Kansas wines at its vineyard in the beautiful Flint Hills

of Wabaunsee County. Every wine is produced with 100% Kansas grown grapes. They also produce the first and only Methode Champenoise (Traditional Method) sparkling wine in Kansas history. Offering over 30 wines from dry to sweet, they have something for everyone. Learn more at: www.prairiefirewinery.com



Chambourcin grapes grow well at the vineyards of Prairie Fire Winery and this year produced a silver medal winning wine in national competition.

Benyshek named 2017 K-State Animal Sciences & Industry Distinguished Alumnus

Dr. Larry Benyshek, this year's Kansas State University Department of Animal Sciences and Industry Distinguished Alumnus, has had a notable career as a researcher, professor, university department head and entrepreneur. Benyshek was recognized for his accomplishments and presented the 2017 KSU ASI Distinguished Alumnus Award Thursday, Dec. 7 on the K-State campus.

With a vision for the beef cattle industry, Benyshek led a team of scientists that provided research and genetic evaluation for several major breeds of beef cattle in the U.S., Canada and South America. He eventually created Benyshek and Hough Consulting Services where he now serves as president. He has presented research results in several states and countries and is widely known for



Dr. Larry Benyshek receives the Distinguished Alumnus Award from Dr. Ken Odde, K-State ASI department head.

spreading the "expected progeny difference" (EPD) concept.

Raised on a general livestock farm in Republic County near Agenda,

K-State Corn Production Management schools set for Jan.

Three K-State Corn Production Management Schools will be offered in early January 2018 in western, central, and eastern Kansas. Each school will provide in-depth training targeted for corn producers in those regions. The schools are coordinated with Kansas Corn and the signature sponsor is Du-

Pont Pioneer.

The one-day schools will cover current corn topics including: weed control, production management, nutrient management, insects and diseases, planter technology, usable corn condition progress tools, and price and market perspectives. More information on the topics and speakers for each school can be found at KScorn.com/cornschool.

Registration for each school is at 8:45 a.m. with the program to begin at 9 a.m. and adjourn at 2 p.m. The dates and locations are:

Jan. 8: Hesston, AGCO building, 420 W. Lincoln Blvd

Ryan Flaming, Harvey County, flaming@ksu.edu 316-284-6930

Jan. 9: Garden City, Clarion Inn, 1911 E. Kansas Ave.

AJ Foster, Southwest Area Crops and Soils Specialist; anserdj@ksu.edu

Jan. 11: Leavenworth, The Barn, 17624 Santa Fe Trail

Karol Lohman, Leavenworth County, klohman@ksu.edu, 913-364-5700

The schools are free to attend thanks to the support of DuPont Pioneer

ation's (BIF) Continuing Service Award in 1986 and the Pioneer Award in 2001. The American Society of Animal Science presented him with the Animal Breeding and Genetics award in 1994.

"Larry is a leader in the genetic evaluation of beef cattle," says Ken Odde, K-State ASI department head. "He played a key role in the development of EPDs and in making EPDs a widely used selection tool in the beef industry."

Benyshek retired in 2002 from UGA and now he and his wife, Isabella, live in Junction City. The couple has five children and two grandchildren.

and Kansas Corn. Lunch will be provided and participants are asked to pre-register before Jan. 6.

Registration may be completed online at KS-corn.com/Cornschool or through a local K-State Research and Extension office.

More information is also available by contacting Ignacio Ciampitti, K-State crop production and cropping systems specialist, ciampitti@ksu.edu or 785-532-6940; or Stacy Mayo-Martinez, Kansas Corn director of industry relations, smayo@ksgrains.com.

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STARTING TIME
10:30 AM

Marys

Tuesdays

THE REZAC FAMILY & ALL THEIR EMPLOYEES WISH YOU A MERRY CHRISTMAS.

We will have No Sale December 26. Our NEXT SALE will be on January 2!

<p>We sold 1107 cattle December 12 and 14. Steer and bull calves were in good demand at steady prices. Feeder steers sold steady to \$3.00 higher. Cows and bulls sold \$1.00-2.00 lower.</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 33%;"> <p>STEER & BULL CALVES</p> <table border="0"> <tr><td>1 blk str</td><td>440 @ 201.00</td></tr> <tr><td>6 blk str</td><td>425 @ 199.00</td></tr> <tr><td>2 blk str</td><td>383 @ 189.00</td></tr> <tr><td>5 blk str</td><td>412 @ 189.00</td></tr> <tr><td>3 blk/char str</td><td>470 @ 188.00</td></tr> <tr><td>2 blk/red str</td><td>418 @ 183.00</td></tr> <tr><td>3 blk bulls</td><td>363 @ 180.00</td></tr> <tr><td>4 blk str</td><td>388 @ 179.00</td></tr> <tr><td>2 blk/sim str</td><td>465 @ 179.00</td></tr> <tr><td>3 blk/sim str</td><td>530 @ 177.00</td></tr> <tr><td>2 bwf str</td><td>365 @ 175.00</td></tr> <tr><td>4 blk/red str</td><td>540 @ 175.00</td></tr> <tr><td>5 blk str/bulls</td><td>494 @ 175.00</td></tr> <tr><td>4 blk bulls</td><td>315 @ 175.00</td></tr> <tr><td>2 blk str</td><td>375 @ 170.00</td></tr> <tr><td>8 blk/bwf str</td><td>535 @ 166.50</td></tr> 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<p>BULLS</p> <table border="0"> <tr><td>1 wf bull</td><td>2020 @ 74.00</td></tr> <tr><td>1 blk bull</td><td>2285 @ 72.00</td></tr> <tr><td>1 blk bull</td><td>2230 @ 71.50</td></tr> <tr><td>1 wf bull</td><td>1875 @ 71.00</td></tr> <tr><td>1 blk bull</td><td>2190 @ 70.00</td></tr> <tr><td>1 blk bull</td><td>1950 @ 69.00</td></tr> <tr><td>1 bwf bull</td><td>1625 @ 68.50</td></tr> <tr><td>1 blk bull</td><td>1435 @ 64.50</td></tr> <tr><td>1 blk bull</td><td>1395 @ 61.00</td></tr> </table>	1 wf bull	2020 @ 74.00	1 blk bull	2285 @ 72.00	1 blk bull	2230 @ 71.50	1 wf bull	1875 @ 71.00	1 blk bull	2190 @ 70.00	1 blk bull	1950 @ 69.00	1 bwf bull	1625 @ 68.50	1 blk bull	1435 @ 64.50	1 blk bull	1395 @ 61.00	<p>CONSIGNEDMENTS FOR DECEMBER 19, Last Sale of 2017!</p> <p>CUSTOMER APPRECIATION 70TH ANNIVERSARY CELEBRATION - Brisket Lunch</p> <ul style="list-style-type: none"> • 60 blk Char steers & heifers, 500-650 lbs., vacc. • 20 blk steers, 450-500 lbs., weaned, vaccinated • 23 Angus str & hfrs, 500-600 lbs., weaned, vacc. • 42 blk str & hfrs, 500-600 lbs., weaned, vacc. • 70 black heifers, 700-725 lbs. • 65 black steers, 800-825 lbs. • 60 black steers, 850-875 lbs. • 58 black crossbred steers, 825-850 lbs. • 60 black steers, 900-925 lbs. • 190 black/Charolais steers, 900-925 lbs. • 61 black crossbred steers, 900-925 lbs. • 60 black Charolais steers, 850-875 lbs.
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Our CONSIGNMENTS can now be viewed after 12 Noon on Mondays by going to www.grassandgrain.com & logging onto the online subscription

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AUCTIONEERS: DENNIS REZAC & REX ARB

St. Marys, Ks.

Livestock Commission
Company, Inc.