44TH ANNUAL BULL & FEMALE SALE

Legacy

SALE

STANLEY STOUT CENTER
MARCH 5 | 4 P.M.
Thank You

Gardiner Angus Ranch, Mark Gardiner
Thomas Angus Ranch, Rob and Lori Thomas
Sandhill Farms, Kevin and Vera Schultz
Jensen Bros., Kevin and Sheila Jensen
Perez Cattle Co., Kyle Perez
McCurry Angus Ranch, John McCurry
Werk Herefords, Shane Werk
Rockin K Productions, Kent Jaecke
Mrs. Joyce Hale Family, Cedar Creek Ranch
Cross Country Genetics North Inc., Dr. Clay Breiner, Dr. Kirk Gray and Dr. Joel Anderson
Triple C Manufacturing
LiveAuctions.tv, Ben Gleason • GeneSeek, Rick Pfortmiller
Genex, Cody Sankey
Select Sires, Lorna Marshall and Brian House
STgenetics, Aaron Arnett
Roto-Mix LLC, Mark Cooksey
Hold’em Fence Co., Yachal Benedict
Fink Beef Genetics, Galen & Lori Fink
Dr. David Grieger, Esther McCabe, Ashley Hartman
Kansas Arrowquip Dealers: Wertzberger Ranch Equipment, Alma; Triple S Ranch Supply, El Dorado;
Stone Farms and Sales, Louisburg
Blueville Nursery
Schuler Manufacturing Co., Reggie Schuler
Gallagher North America, Ray Williams
Benyshek and Hough Consulting Services Inc., Dr. Larry Benyshek and Dr. John Hough
Livestock Sales Management Class Speakers: Kevin Jensen, Abram Mertz, Rob Thomas, Kent Jaecke,
Kyle Colyer, Barb Downey, Mary Ann Kniebel and Mark Gardiner
K-State Stocker Unit, Dr. Dale Blasi and Bill Hollenbeck • K-State Cow Calf Unit, Dr. KC Olson and Jack Lemmon
K-State Veterinary Medical Teaching Hospital, Dr. Shaun Huser and staff
K-State Beef Cattle Research Center, Dr. Jim Drouillard, Ross Thorn and staff
Kansas Artificial Breeding Services Unit, Dr. Tom Taul and staff
K-State ASI Staff: Angie Denton, Lois Schreiner, Tim Carson and Christina Carlson
Purebred Unit Employees: Wyatt Banks, Wesley Denton, Brandt Downing, Jake McCall, Christian Magana,
Gus Quillin, Hannah Williams and Isaac Wingert
Catalog Design: Sierra Day

MARK YOUR CALENDARS FOR NEXT YEAR’S LEGACY SALE ON MARCH 4, 2022!
The Legacy Sale • asi.ksu.edu/bullsale
Schedule of Events

March 5, 2021 • 4 p.m. CST
KSU Stanley Stout Center
2200 Denison Ave.
Manhattan, Kansas

THURSDAY, MARCH 4

10 a.m. Cattle on display
Purebred Beef Barn Headquarters
2200 Denison Ave,
Manhattan, Kansas

FRIDAY, MARCH 5

11 a.m. Cattle on display
Stanley Stout Center

4 p.m. 44th Annual Legacy Sale
Stanley Stout Center

Masks must be worn at all times when on the K-State campus and at the sale facility. Social distancing will be enforced and attendance will be monitored.

SCHEDULE OF EVENTS

March 5, 2021 • 4 p.m. CST
KSU Stanley Stout Center
2200 Denison Ave.
Manhattan, Kansas

Selling

18 ANGUS BULLS
11 SIMMENTAL BULLS
10 HEREFORD BULLS
1 CHOICE OF FLUSH
15 FALL-BRED FEMALES
21 COMMERCIAL HEIFERS
2020-2021 Livestock Sales Management Class – Standing in front of sale ring (l to r) are: Nicole Stafford, Sunnyvale, TX; Kinsey Griffith, Hill City, KS; Emily Meier, Goessel, KS; Makaeli Burkham, Malaga, N.M.; and Tess Wolney, Hiawahta, KS. Standing behind Flying K are: Katie Lybarger, Garnett, KS; and Hannah Williams, Kearney, NE. Standing on sale block (l to r) are: Greyson Collins, St. John, KS; Austin Vieselmeyer, Amherst, CO; and Chisum Grund, Wallace, KS.

FIND US ON SALE DAY

Dr. Mike Day
Dr. Dave Nichols
Shane Werk
Dear Friends,

On behalf of the K-State Livestock Sales Management class and the Department of Animal Sciences and Industry, welcome to the 44th Annual Bull & Female Sale! Plan to join us as we celebrate 44 years of commitment to students and beef producers.

For more than four decades, our commitment to our customers has been to provide cattle that are profitable in a variety of situations. As we all know, the past 11 months have been challenging in many ways. Here on campus, we continue to face restrictions and these will apply to this year’s Legacy Sale. Masks and social distancing will be required, and we will also have to monitor attendance. Please contact us with any questions you may have in regards to these guidelines.

With that being said, we are really excited for this year’s offering. The bulls are the deepest and highest quality group we have had here in several years. We would love to show you the cattle anytime that is convenient for you between now and sale day. Please watch the website or our Facebook page for updates when sale videos are available online. The sale will be broadcasted on LiveAuctions.tv as previous years, and that is a great option if you feel more comfortable with that format.

As a department, we take great pride in our university, our cattle and especially our students. We encourage you to get to know this group of future beef industry leaders as you browse the pens on sale day. Thanks for taking the time to look through this catalog. We strive for customer satisfaction before and after the sale and we are confident that we can help you find cattle that will add profit to your operation.

Feel free to contact us or stop by at any time. We look forward to seeing you March 5th.

Sincerely,

Mike Day
Dave Nichols
Shane Werk
SALE HEADQUARTERS
K-State Stanley Stout Center, 2200 Denison Avenue, Manhattan, Kansas
Sale Day Phone: 785-532-2100

SALE MANAGER
2020-21 K-State Livestock Sales Management Class

SALE DAY PHONE NUMBERS
Black ................................................................. 785-532-2100
Shane Werk ...................................................... 785-565-1881
Dave Nichols .................................................... 785-317-4994

HONORED GUESTS
Dr. Ernie Minton, Dean, College of Agriculture
Dr. Dan Moser, Associate Dean, College of Agriculture
Dr. Miles McKee, Professor Emeritus, Animal Sciences and Industry

ASSOCIATION REPRESENTATIVES
Jeff Mafi, Regional Manager, American Angus Association
John McCurry, President, Kansas Angus Association
Oliver Beall, President, Kansas Hereford Association
Kelli Cox, President, Kansas Simmental Association

SALE STAFF
Cal. Sonny Booth, Auctioneer .................................. 918-533-5587
Guy Peverly, The Stock Exchange ................................. 785-456-4390
Stephen Russell, Kansas Stockman .............................. 785-458-2850
Kent Jaecke, Rockin’ K Productions ............................ 405-408-2440

TERMS AND CONDITIONS
The terms of the sale are cash unless prior arrangements have been made.
Animals will be sold to the highest bidder with the auctioneer settling any disputes.
Announcements made at the sale by the sales staff and/or the auctioneer will take precedence over statements in the catalog.

REGISTRATION AND TRANSFER
Registration certificates will be transferred to the buyer at the seller’s expense.
Buyers must give the clerk complete name, address and association information for making transfers.

ABSENTEE BIDS
Absentee bids by persons unable to attend the sale may be placed by phone or mail with the sale management, publication representatives or the auctioneer.
You may also call the sale day phone, or any of the agents listed above, to place your bid.

ANIMAL INFORMATION
Animals are permanently identified by tattoo in both ears.

BREEDING STATUS
Information was collected with the assistance of K-State Veterinary Medicine Teaching Hospital faculty in February 2021.

VIEW SALE BROADCAST ONLINE
Real-time bidding is available via the Internet for this sale. Live audio and video will allow buyers to bid on animals just as if they were present at the sale. Buyers must create an account prior to the sale. Please visit www.LiveAuctions.tv to create an account and request a buyer number. For more information, contact Ben Gleason at 785-640-9390 or Ben@LiveAuctions.tv. Please have your buyer number by March 4 for the K-State Legacy Sale.

HERD HEALTH
The health of the cattle is excellent. All cattle in the offering will meet the health regulations of the state of Kansas and appropriate health papers for interstate shipment will be furnished. Cattle were vaccinated with Boehringer Ingelheim Pyramid 5 + Prespone at turnout and weaning. Calves were vaccinated for clostridials and pinkeye with Alpha at turnout and for clostridials at weaning with Vision 7. Calves were treated with an ivermectin pour-on to control internal and external parasites. Bulls will receive a prebreeding vaccination. All bulls will be evaluated using a breeding soundness exam conducted by personnel at the Kansas Artificial Breeding Service Unit (KABSU). Mature females in the sale will be checked and sell pregnant unless otherwise stated in the catalog or on sale day.

BREEDING GUARANTEE
Bulls and females are guaranteed to be breeders except for:
I. Injury or disease occurring to the animal after the purchase.
II. Gross negligence or willful misconduct by the purchaser.
Please contact Shane Werk at 785-565-1881 immediately if any issue arises.

DELIVERY AND MANAGEMENT
To your advantage, animals that are taken home sale day will be given $50 off the purchase price of the lot. If you choose to leave your purchase at K-State after the sale, we strongly recommend you insure your purchase. K-State cannot be held liable for injury or death to that animal after the sale. Animals kept after March 20, 2021, will incur charges of $3 per day for feed. Kansas State will deliver your purchase for $4 per loaded mile. Contact Shane Werk with questions or for arrangements at 785-565-1881.

ANIMAL AND SEMEN INTEREST
K-State is keeping semen interest and revenue sharing rights on all sale bulls. K-State is selling full possession, full salvage value and 75% semen interest on all bulls. K-State reserves the right to collect semen at our cost and at your convenience for artificial insemination purposes. K-State reserves the right to flush any cow two times or a minimum of 6 transferable embryos per flush; sire of our choice and flush at our expense. Visit with Shane Werk for details.

INSURANCE
Livestock insurance will be available and is strongly encouraged for those buyers that will not be taking their purchases home on sale day.

LIABILITY
All persons who attend the sale do so at their own risk. Neither the sale management, Kansas State University, nor any person connected with the sale assumes any liability, legal or otherwise, for accidents or loss of property.
**SPECIAL REQUIREMENTS**

Kansas State University is committed to making its services, activities, and programs accessible to all participants. If you have special requirements due to a physical, vision, or hearing disability, contact Dave Nichols, 785-317-4994, or Scott Jones, Director of Institutional Equity, Title IX Coordinator, Kansas State University, (TTY) 785-532-4807

**INDIVIDUAL ANIMAL INFORMATION**

All performance information in this catalog is correct to the best of our knowledge. Data was pulled from the respective breed associations on February 1, 2021. All measures are adjusted by age according to each individual breed association. Updated performance, breeding, ultrasound and DNA information will be available in the form of a supplement sheet on the Internet and on sale day. All sale cattle that trace to carrier animals have been tested free of Idiopathic Epilepsy (IE), Arthrogryposis Multiplex (AM), Neuropathic Hydrocephalus (NH), Contractural Arachnodactyly (CA), and Maple Syrup Urine Disease (MSUD). Potential DD carriers are noted on individual lots with a DDP notation. A Hypotrichosis (HY) carrier is noted with HYC.

**Expected Progeny Difference (EPD)** is the prediction of how future progeny are expected to perform relative to the progeny of other animals listed in the database. EPDs are expressed in units of measure for the trait, plus or minus. EPDs are the best overall prediction of differences in progeny performance and are useful tools that aid in selection; however, EPDs DO NOT PREDICT an actual level of performance. For example, a bull with a BW EPD of +3.0 should sire calves that average approximately two pounds heavier than a bull with a BW EPD of +1.0. The actual weights of the calves in the progeny groups will depend upon environmental factors. EPDs can be used to compare cattle within a breed but CANNOT be used to compare cattle of different breeds. To make across-breed comparisons, EPDs must be adjusted to a common base. A helpful Excel worksheet: bit.ly/KSUepds.

**EXPLANATION OF COMMON EPDS**

**Calving Ease Direct (CE or CED)** is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers.

**Birth Weight EPD (BW)**, expressed in pounds, is a predictor of a sire’s ability to transmit birth weight to his progeny.

**Weaning Weight EPD (WW)**, expressed in pounds, is a predictor of a sire’s ability to transmit weaning growth to his progeny.

**Yearling Weight EPD (YW)**, expressed in pounds, is a predictor of a sire’s ability to transmit yearling growth to his progeny.

**Scrotal Circumference EPD (SC)**, expressed in centimeters, is a predictor of a sire’s ability to transmit scrotal size to his progeny.

**Calving Ease Maternal (CEM or MCE)** is an indicator of the genetic merit of a sire’s daughter to calve unassisted. It is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf daughters.

**Maternal Milk EPD (Milk or MM)** is a predictor of sire’s daughter’s genetic merit for maternal weaning weight influenced by milk production and mothering ability as expressed in his daughters. The trait is measured in pounds of weaning weight.

**Intramuscular Fat EPD (%IMF)** is a predictor of the difference in a sire’s progeny for percent intramuscular fat in the ribeye muscle.

**Ribeye Area EPD (REA or RE)** is a predictor of the difference in square inches of ribeye area of a sire’s progeny. Actual carcass and ultrasound data are used in calculation of REA EPD.

**Fat Thickness EPD (FAT or BF)**, expressed in inches, is a predictor of the difference in fat thickness at the 12th rib of a sire’s progeny. Actual carcass and ultrasound data are used in calculation of FAT EPD.

**Marbling (MARB or MRB)** is used to determine USDA quality grade. Marbling is reported in fractions of a marbling grade. A +1.0 MARB EPD would be one full marbling grade higher (think the difference between Small 00 and Modest 00) than a sire with a MARB EPD of 0.00. The marbling EPD represents the relative difference in the average marbling between progeny groups.

**Carcass Weight (CW or CWT)** is an indicator of the differences in genetic potential between sires for their ability to produce pounds of carcass weight.

**Dry Matter Intake (DMI)** is a genetic predictor of feed requirements of growing animals. It is associated with differences in feed costs and is measured in pounds of dry matter intake per day.

**Dcallity (DOC)** is a measure of the temperament of animals and is reported as the additional percentage of animals that fall in the two most docile scoring categories. More positive values indicate sires that produce more docile animals.

**ANGUS V$VALUE INDEXES**

V$value indexes are multi-trait selection indexes to assist beef producers by adding simplicity to genetic selection decisions. V$Values are reported in dollars per head, where a higher value is more favorable. The V$Value is an estimate of how future progeny of each sire are expected to perform, on average, compared to progeny of other sires in the database if the sires were randomly mated to cows and if calves were exposed to the same environment.

**Cow Energy Value ($EN)**, expressed in dollar savings per cow per year, assesses differences in cow energy requirements as an expected dollar savings difference in daughters of sires. A larger value is more favorable when comparing two animals (more dollars saved on feed energy expenses).

**Weaned Calf Value ($W)**, expressed in dollars per head, is the expected average difference in future progeny performance for pre-weaning merit compared to progeny of other sires.

**Grid Value ($G)**, expressed in dollars per head, is the expected average difference in future progeny performance for post-weaning merit compared to progeny of other sires.

**Maternal Weaned Calf Value ($M)**, expressed in dollars per head, is the expected average difference in future progeny performance for post-weaning merit compared to progeny of other sires.

**Weaned Calf Value ($W)**, expressed in dollars per head, is the expected average difference in future progeny performance for pre-weaning merit. $W is the additional percentage of animals that fall in the two most docile scoring categories. More positive values indicate sires that produce more docile animals.

**Maternal Weaned Calf Value ($M)**, expressed in dollars per head, predicts profitability differences from conception to weaning with the underlying breeding objective assuming that individuals retain their own replacement females within herd and sell the rest of the calf female and all male progeny as feeder calves. The model assumes commercial producers will replace 25% of their breeding females in the first generation and 20% of their breeding females in each subsequent generation.

**Combined Value ($C)**, expressed in dollars per head, which includes all traits that make up both Maternal Weaned Calf Value ($M) and Beef Value ($B) with the objective that commercial producers will replace 20% of their breeding females per year with replacement heifers retained within their own herd. The remaining cull heifer and steer progeny are then assumed to be sent to the feedlot where the producers retain ownership of those cattle and sell them on a quality-based carcass merit grid.
GENERAL INFORMATION

HEREFORD $VALUE INDEXES

Baldy Maternal Index ($BMI), used for selecting Hereford bulls to use on Angus-cross cows and heifers, when replacement heifers will be raised. Retained ownership of steers and cull heifers through the feedlot phase is assumed, with fed cattle marketed on a Certified Hereford Beef (CHB) program grid.

Brahman Influenced Index ($BII), is similar to $BMI, except Hereford bulls are used in a rotational crossbreeding system with Brahman, rather than Angus.

Certified Hereford Beef Index ($CHB), a terminal sire index, when Hereford bulls are mated to British-cross cows, and all offspring are sold as fed cattle on a CHB grid.

SIMMENTAL EPDS AND $VALUE INDEXES

Stayability (Stay), is expressed as the additional percentage of a sire’s daughters that remain in the herd to six years of age. It is an indicator of sustained fertility and longevity of cows.

All-Purpose Index (API), evaluates sires being bred to both first-calf heifers and mature cows with a portion of their daughters being retained for breeding and the cull heifers and steers are fed out. This index includes both production models and maternal values to form an all-inclusive selection tool.

Terminal Index (TI), designed for evaluating sires’ economic merit in situations where they are bred to mature cows and all offspring go to the feedlot. Consequently, maternal traits such as maternal calving ease, maternal weaning weight and female fertility are not considered in the index.

ANGUS AVERAGE EPDS

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<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
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<th>Fat</th>
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HEREFORD AVERAGE EPDS

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SIMMENTAL AVERAGE EPDS

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SELECT WITH CONFIDENCE:
LEVERAGING THE POWER OF GENOMICS

We recognize that our customers seek out different genetic packages from our offering to work in their unique production circumstance. We also know that there are a variety of traits that contribute to profit of beef producers. It is this breadth of need that motivates us to collect a wide range of phenotypic data. Our job as a seedstock producers is to collect accurate and reliable information to inform selection tools like EPDs and indexes.

Genomic tools provide additional information regarding an animal’s genetic merit and add a substantial improvement in EPD accuracy for young animals. While accuracy improvement for conventional growth and carcass traits is valuable, improvements in the accuracy of EPD for traits like heifer pregnancy, stayability, calving ease, and maternal traits where non-parents won’t have a performance record, may prove to be of even higher value. Current DNA genotyping yields increases in EPD accuracy equivalent to the animal having approximately 10-30 progeny with data recorded. With our use of genomic tools, commercial producers can purchase bulls with EPD accuracies roughly equal to those of bulls that have had all the available traits recorded for their first calf crop.

All sale bulls and feature heifer lots have been genotyped through their respective breed associations.

Know that you can buy with confidence at the Legacy Sale. Our dedication to performance testing and adoption of genomic tools assures you, our customer, of the most accurate, science based genetic predictions available in the marketplace today.
PUREBRED BEEF UNIT STEERS MAKE THE GRADE

In September 2019, the Purebred Beef Unit hosted an Ultrasound Guidelines Council certification event for scan technicians at the headquarters facility. Kansas Arrowquip dealers provided use of 10 chutes and drafting modules that enabled up to 10 technicians to scan simultaneously. The cattle used in the certification included 37 head of cull steers from the unit fed for the scanning and subsequent carcass data collection. The steers were harvested at Creekstone Farm’s processing facility in Arkansas City, Kansas, in late September. The steers’ exceptional grade data (see table below) demonstrates the value of disciplined selection using today’s science-based tools and the genetic merit of cattle at K-State’s Purebred Beef Unit.

37 head of Angus, Sim-Angus and Simmental Steers

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<td><strong>Averages:</strong></td>
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<td><strong>2.9</strong></td>
<td><strong>13.2</strong></td>
<td><strong>805</strong></td>
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CATTLEMEN’S DAY 2021
March 5, 2021 • Virtually on Zoom

9:30 a.m. Welcome
   Mike Day, KSU ASI department head

9:45 a.m. Pandemic Effects on the US Beef Industry
   Jayson Lusk, Purdue University distinguished professor and Ag Economics department head

10:30 a.m. 2020 Beef Processing, Retail and Foodservice COVID-19 Insights
   Jason Rumley, Radian Group principal
   Robert Norris, Radian Group director

11:15 a.m. Reproductive Technology Resources and Current Tools
   Sandy Johnson KSU ASI Livestock Production Specialist

11:35 a.m. Pandemic Effects on Small Kansas Processors
   Liz Boyle, KSU ASI Extension Meat Science Specialist

Noon Question-and-Answer Session

Register online at KSUBeef.org
Calving ease is a core trait of the Angus breed and we have been selecting for superior calving ease for generations. The K-State Angus breeding program takes calving ease genetics to new heights by adding extra performance and carcass merit and puts it in a stylish phenotypic package.

Our Angus cows are managed on real-world Flint Hills tall grass prairie. We don’t pamper our cows because we know our customers won’t either. We continually select top genetics for use in our extensive embryo transfer and AI programs that complement the fertility and adaptability of our historic cow herd.

Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center. The Insentec technology installed in the new center enables collection of individual feed and water intake records on all the bull and heifer selection candidates. Feed intake and performance data will be available as a catalog supplement. We continue to evaluate and add technologies to our selection program that are proven to aid in finding the best genetic combinations. You can purchase calving ease Angus genetics with added performance from our program with confidence. We know that these bulls will work as hard for you as they do for us.

**Reference sires for this year’s Angus bull offering:**

**S A V RAINDANCE 6848**

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**GAR ASHLAND**

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**MUSGRAVE 316 STUNNER**

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**PLATTEMERE WEIGH UP K360**

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Angus Bulls

LOT 1 - KSU ASHLAND 0163 ET

Reg #: 19855104
DOB: 2/10/2020
Tattoo: 0163
GAR ASHLAND
CHAIR ROCK SUNRISE 6010
Chair Rock Prophet 4000

<table>
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<tr>
<th>CED</th>
<th>BW</th>
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DMI DOC $EN $W $F $G $B
1.57 20 -38 95 90 87 176

Reg #: 19855104
DOB: 2/10/2020
Tattoo: 0163
GAR ASHLAND
CHAIR ROCK SUNRISE 6010
Chair Rock Prophet 4000

Ranks in the top 1% $W, $G and WW; 3% YW and Marb; 4% $B; 5% SC; and 10% REA and CW. An outstanding individual with big-time data and quality phenotype. A flush of his full sisters sells as Lot 40. He’s high-performance, deep-sided, flexible, well-balanced and practical. All that combined with growth and carcass figures that are at the top of the breed, projects him to be a true herd sire prospect.

LOT 2 - KSU ASHLAND 0150 ET

Reg #: 19855103
DOB: 1/08/2020
Tattoo: 0150
GAR ASHLAND
CHAIR ROCK SUNRISE 6010
Chair Rock Prophet 4000

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DMI DOC $EN $W $F $G $B
1.36 35 -43 82 100 71 171

Reg #: 19855103
DOB: 1/08/2020
Tattoo: 0150
GAR ASHLAND
CHAIR ROCK SUNRISE 6010
Chair Rock Prophet 4000

Ranks in the top 1% DOC; 2% WW, YW and REA; 5% $W; 10% $G and $B. Another big-time Ashland son. Like his brother, Lot 1, his growth, carcass and dollar indices are at the top end of the breed. He combines that with a striking profile and is powerfully constructed.

REFERENCE SIRE: GAR ASHLAND

Genex

Thanks to Genex and Cody Sankey for their continued support of the K-State Purebred Beef Unit
LOT 3 - KSU RAINDANCE 0151

Ranks in the top 2% $W; 3% REA; 5% WW and YW; and 10% DOC, Milk and Fat. Exceptional length, depth and performance in an eye appealing and functional package. Out of a great uddered cow with longevity and maternal power. He and his full brothers, Lots 4-6, are outstanding choices for to make top end replacement females.

LOT 4 - KSU RAINDANCE 0156

Ranks in the top 10% WW, YW, REA and Fat.

LOT 5 - KSU RAINDANCE 0155

Ranks in the top 10% Fat.

LOT 6 - KSU RAINDANCE 0153

Ranks in the top 10% Fat.
LOT 7 - KSU RAINDANCE 0174

A standout Raindance son. Extra stout and powerful, he exhibits performance both in person and on paper. Great option to make moderate, maternal replacements or powerful feeder cattle.

LOT 8 - KSU RAINDANCE 0169 ET

Ranks in the top 10% WW.

THANKS TO THESE ANGUS BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:
GARDINER ANGUS RANCH
THOMAS ANGUS RANCH
MCCURRY ANGUS RANCH
LOT 10 - KSU STUNNER 0161

**KSU STUNNER 0161**

Reg #: 19874929  
DOB: 2/07/2020  
Tattoo: 0161

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
MCATL Blackbird 831-1378  
R B Tour Of Duty 177

**KSU MISS TOUR OF DUTY 7193**  
KSU Miss Daybreak 1158

<table>
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<td>96</td>
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</table>

Ranks in the top 10% CEM. Well balanced both in person and on paper. Nice spread from birth to yearling and raised by one of the nicest, young Angus cows in the herd.

LOT 11 - KSU STUNNER 0166

**KSU STUNNER 0166**

Reg #: 19874935  
DOB: 2/13/2020  
Tattoo: 0166

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
MCATL Blackbird 831-1378  
Hunts Calculator 2720

**K S U MISS CALCULATOR 3123**  
Miss Bando K 8203

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<td>84</td>
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<td>134</td>
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</table>

Ranks in the top 10% DMI. Very attractive Stunner son, whose donor dam produced until 15 years of age. Longevity and maternal capability bred in.

LOT 12 - KSU STUNNER 0159

**KSU STUNNER 0159**

Reg #: 19874934  
DOB: 2/05/2020  
Tattoo: 0159

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
MCATL Blackbird 831-1378  
Hunts Calculator 2720

**K S U MISS CALCULATOR 3123**  
Miss Bando K 8203

<table>
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Ranks in the top 10% DMI.

LOT 13 - KSU STUNNER 0157

**KSU STUNNER 0157**

Reg #: 19874933  
DOB: 2/03/2020  
Tattoo: 0157

**LD Capitalist 316**  
**MUSGRAVE 316 STUNNER**  
MCATL Blackbird 831-1378  
Hunts Calculator 2720

**K S U MISS CALCULATOR 3123**  
Miss Bando K 8203

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Ranks in the top 3% Milk.
LOT 15 - KSU WEIGH UP 0176

K14
KSU STUNNER 0107
Reg #: 19874917
DOB: 1/28/2020
Tattoo: 0107

LD Capitalist 316
MUSGRAVE 316 STUNNER
MCAIT Blackbird 831-1378
K C F Bennett Absolute
KSU MISS ABSOLUTE 8104
KSU Miss All In 5197

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<td>4</td>
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DMI DOC $EN $W $F $G $B
0.89 8 -32 86 100 45 145

Ranks in the top 2% WW; and 10% YW and SC. A deep, stout, well-balanced Weigh Up son with plenty of performance.

K15
KSU WEIGH UP 0176
Reg #: 19876764
DOB: 3/01/2020
Tattoo: 0176

Sitz Upward 307R
PLATTEMERE WEIGH UP K360
Barbara of Plattemere 337
Connealy Confidence 0100
TMG B03 OF 5933 CONFIDENCE
Dalebanks Promptitude 5933

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<td>-0.002</td>
<td>0.59</td>
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DMI DOC $EN $W $F $G $B
1.38 20 -10 80 81 37 119

Ranks in the top 2% WW; and 10% YW and SC. A little older fall-born bull ready for heavier service.

K16
KSU WEIGH UP 0175
Reg #: 19876763
DOB: 3/1/2020
Tattoo: 0175

Sitz Upward 307R
PLATTEMERE WEIGH UP K360
Barbara of Plattemere 337
Connealy Confidence 0100
TMG B03 OF 5933 CONFIDENCE
Dalebanks Promptitude 5933

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DMI DOC $EN $W $F $G $B
0.89 8 -28 71 102 46 148

Ranks in the top 10% $F.

K17
KSU RESOURCE 9404
Reg #: 19983971
DOB: 10/04/2019
Tattoo: 9404

Rito 707 of Ideal 3407 7075
S A V RESOURCE 1441
S A V Blackcrop May 4136
R B Tour Of Duty 177
KSU MISS TOUR OF DUTY 6155
KSU Miss Daybreak 3182

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DMI DOC $EN $W $F $G $B
1.86 19 -35 61 96 33 129

Ranks in the top 2% WW, REA and Fat; and 5% YW. A little older fall-born bull ready for heavier service.

K18
KSU ENDURANCE 9409
Reg #: 19842427
DOB: 11/04/2019
Tattoo: 9409

Sitz Dash 10277
MILL BRAE ENDURANCE 2118
Mill Brae FA Queen 8035
KSU Objective 0183
KSU MISS OBJECTIVE 5198
K S U Miss New Frontier 5204

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<td>1.07</td>
<td>12</td>
<td>16</td>
<td>0.015</td>
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<td>0.6</td>
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DMI DOC $EN $W $F $G $B
1.56 8 -21 65 88 48 136

Ranks in the top 10% WW. Ranks in the top 2% WW, REA and Fat; and 5% YW. A little older fall-born bull ready for heavier service.
Simmental has a long history in the Manhattan area, at the department’s Kansas Artificial Breeding Service Unit (KABSU) and the Purebred Beef Unit. We’re proud to have had a role in that history. We select to produce Simmental genetics with outstanding index values and superior phenotype. Excellence in Simmental’s API (All Purpose Index) is driven through exceptional balance and strength in stayability, calving ease, growth and end-product merit. In a planned crossbreeding system, provide added carcass yield, growth and maternal strength. Select bulls for use on Angus-based or British-crossbred cows using API to produce great feeder cattle and replacement females. Use the Terminal Index (TI) to select bulls exclusively for feeder and fed cattle. TI will put an added punch in growth and carcass in the progeny.

Our SimAngus bulls offer a unique balance of heterosis, maternal function and end-product merit to construct a simple yet effective crossbreeding system that makes feeder cattle that are in high demand. We take efficiency seriously and look to a great future using the best of Simmental-influenced genetics and our own testing facility to add even more value to our customers’ calves.

Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center. The Insentec technology installed in the new center enables collection of individual feed intake records on all the bull and heifer selection candidates. Feed intake and performance data will be available as a catalog supplement.

Reference sires for this year’s Simmental offering:

KBHR HIGH ROAD E283
Reg #: 3312276  DOB: 4/10/2020  Tattoo: E283

HOOK` S BEACON 56B
HOOK` S ZAFIRAH 41Z
CLRS GRADE-A A 875 A
WS MISS SUGAR C4
WS ANISE A71

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Marb  BF  REA  API  TI
0.66 -0.044 1.48 179.1 110.0

W/C EXECUTIVE ORDER 8543B
Reg #: 2900283  DOB: 2/10/2014  Tattoo: 8543B

TNT TUITION U238
W/C UNITED 956Y
MISS WERNING 956W
WAGR DREAM CATCHER 03R
MISS WERNING KP 8543U
MISS WERNING 534R

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Marb  BF  REA  API  TI
0.13 -0.074 0.96 122.8 83.6

GB OFFICIAL ORDER 8543B
Reg #: 3289219  DOB: 3/4/2017  Tattoo: 736E

REMINGTON LOCK N LOAD54U
W/C LOADED UP 1119Y
AUBREYS BLACK BLAZE III
AJE/PB MONTECITO 63W
RUBY NFF RHYTHM 475B
RHYTHM 418P

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Marb  BF  REA  API  TI
-0.14 -0.114 1.20 113.9 71.8
LOT 19 - KSU HIGH ROAD 1H

**KSU HIGH ROAD 1H**

Reg #: 3788457  DOB: 1/3/2020  Tattoo: 1H
3/4 Simmental 1/4 Angus • Homo Polled

HOOK’S BEACON 56B
KBHR HIGH ROAD E283
WS MISS SUGAR C4
CONNEALY CONFIDENCE PLUS
M4 MS TRUST 811 F
KSU MISS SHEAR FORCE 6Z

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<th>TI</th>
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<tr>
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<td>-0.014</td>
<td>1.16</td>
<td>166.3</td>
<td>100.2</td>
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</tbody>
</table>

Ranks in the top 1% WW, YW, MWW and Ti; 2% REA; 3% Milk and API; 5% Stay; and 15% Marb. Long, stout and high performance. Great mother from a top cow family.

LOT 20 - KSU EAGLE 55H

**KSU EAGLE 55H**

Reg #: 3788462  DOB: 3/2/2020  Tattoo: 55H
3/4 Simmental 1/4 Angus • Homo Polled

HOOK’S BLACK HAWK 50B
HOOK’S EAGLE 6E
WS ALL-AROUND Z35
KSU MISS ALL-AROUND 53E
KSU MISS GRADUATE 51C

<table>
<thead>
<tr>
<th></th>
<th>CE</th>
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<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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<tbody>
<tr>
<td></td>
<td>11.0</td>
<td>1.5</td>
<td>114.9</td>
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<tr>
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<td>1.10</td>
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</table>

Ranks in the top 1% WW, YW and Ti; 3% REA; 10% API; and 15% BF. Powerful and stout. Great growth and carcass, with at Ti at the top of the breed.

LOT 21 - KSU EAGLE 2H

**KSU EAGLE 2H**

Reg #: 3788432  DOB: 1/19/2020  Tattoo: 2H
3/4 Simmental 1/4 Angus

HOOK’S BLACK HAWK 50B
HOOK’S EAGLE 6E
HOOK’S CRYSTAL 1C
CCR COWBOY CUT 5048Z
KSU MISS COWBOY CUT 7F
KSU MISS 9T 10D

<table>
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<th>TI</th>
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<td>0.81</td>
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</table>

Ranks in the top 1% Ti; 2% API; 5% WW, YW and Stay; and 15% MCE and Marb.

LOT 22 - KSU EAGLE 102G

**KSU EAGLE 102G**

Reg #: 3645372  DOB: 9/7/2019  Tattoo: 102G
5/8 Simmental 3/8 Angus

HOOK’S BLACK HAWK 50B
HOOK’S EAGLE 6E
HOOK’S CRYSTAL 1C
CCR COWBOY CUT 5048Z
KSU MISS COWBOY CUT 71E
KSU MISS BLUE MOON 22X

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<th>MWW</th>
<th>Stay</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>15.5</td>
<td>-2.1</td>
<td>84.8</td>
<td>129.9</td>
<td>10.2</td>
<td>22.8</td>
<td>65.1</td>
<td>16.1</td>
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<table>
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<th>API</th>
<th>TI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.55</td>
<td>-0.040</td>
<td>0.81</td>
<td>158.8</td>
<td>93.2</td>
</tr>
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</table>

Ranks in the top 4% Ti; 10% MCE and API; and 15% BW, WW and Marb. An older fall-born bull who is ready for heavier service.
LOT 24 - KSU EXECUTIVE ORDER 51H

**KSU EXECUTIVE ORDER 51H**

Reg #: 3788459  DOB: 1/19/2020  Tattoo: 51H
Purebred Simmental • Homo Polled

W/C UNITED 956Y
W/C EXECUTIVE ORDER 8543B
MISS WERNING KP 8543U
HOOKS SHEAR FORCE 38K

KSU MISS SHEAR FORCE 6Z
KSU MISS INVASION 12X

<table>
<thead>
<tr>
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<th>BW</th>
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<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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</thead>
<tbody>
<tr>
<td>17.0</td>
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<td>80.8</td>
<td>119.4</td>
<td>8.8</td>
<td>26.5</td>
<td>66.8</td>
<td>13.2</td>
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</table>

Marb  BF  REA  API  TI
0.33  -0.065 1.06 150.1 89.9

Ranks in the top 2% CE; 4% BW; 10% API and TI; and 15% REA and Marb. Long, stout and well-made. Calving ease plus performance.

**KSU ENDURANCE 98G**

Reg #: 3594689  DOB: 5/2/2019  Tattoo: 98G
1/2 Simmental 1/2 Angus • Homo Polled

SITZ DASH 10277
MILL BRAE ENDURANCE 2118
MILL BRAE QUEEN 8035
HOOKS SHEAR FORCE 38K

KSU MISS SHEAR FORCE 9Z
KSU MISS MO BETTER 13X

<table>
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<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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<tbody>
<tr>
<td>15.8</td>
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<td>73.5</td>
<td>122.6</td>
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<td>27.0</td>
<td>63.7</td>
<td>18.1</td>
</tr>
</tbody>
</table>

Marb  BF  REA  API  TI
0.56  0.005 0.73 159.1 86.1

Ranks in the top 10% MCE and API; 15% CE, BW, Milk, Stay, Marb and TI. Older bull who is a maternal bro to KSU Bald Eagle 53G.
**LOT 28 - KSU COUNTY O 58H**

**K28**

Reg #: 3788450  
DOB: 3/8/2020  
Tattoo: 58H  
3/8 Simmental 5/8 Angus  
Homo Polled  
W/C LOADED UP 1119Y  

GEFF COUNTY O  
RUBY NFF RHYTHM 475B  
G A R PROPHET  

KSU MISS PROPHET 55E  
KSU MISS SHEAR FORCE 9Z  

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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<tbody>
<tr>
<td>6.5</td>
<td>4.3</td>
<td>90.2</td>
<td>144.3</td>
<td>4.9</td>
<td>26.9</td>
<td>71.9</td>
<td>12.6</td>
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<table>
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<th>API</th>
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<tr>
<td>0.28</td>
<td>-0.086</td>
<td>1.34</td>
<td>118.0</td>
<td>82.1</td>
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</table>

Ranks in the top 1% REA; 5% YW; and 10% WW and BF.

**K29**

Reg #: 3788426  
DOB: 2/27/2020  
Tattoo: 11H  
3/8 Simmental 5/8 Angus  

KSU CONVERSATION 11H  

<table>
<thead>
<tr>
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<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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<tbody>
<tr>
<td>11.3</td>
<td>0.5</td>
<td>84.0</td>
<td>133.5</td>
<td>6.6</td>
<td>24.1</td>
<td>66.1</td>
<td>17.6</td>
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<th>API</th>
<th>TI</th>
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<td>-0.011</td>
<td>0.38</td>
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</table>

Ranks in the top 15% YW.

Lot 20, KSU EAGLE 55H, is a full brother to 64G (pictured left), who was the $20,000 high-selling female in the 2020 KSU Legacy Sale.

**LOT 27 - KSU PROPHET 62H**

**K27**

Reg #: 3788440  
DOB: 3/16/2020  
Tattoo: 62H  
3/4 Simmental 1/4 Angus  
Red  

G A R PROPHET  

KSU PROPHET 7158E  
KSU MISS SHEAR FORCE 9Z  
WELSHS DEW IT RIGHT067T  

KSU MISS DEW ITRIGHT 12B  
KSU MS SHARPER IMAGE 24Z  

<table>
<thead>
<tr>
<th>Birth Wt.</th>
<th>Adj. Wean</th>
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<tbody>
<tr>
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<th>MCE</th>
<th>Milk</th>
<th>MWW</th>
<th>Stay</th>
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</thead>
<tbody>
<tr>
<td>12.9</td>
<td>0.9</td>
<td>84.0</td>
<td>129.8</td>
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<td>22.2</td>
<td>64.1</td>
<td>14.8</td>
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<table>
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<tr>
<td>0.33</td>
<td>-0.043</td>
<td>0.58</td>
<td>134.8</td>
<td>83.0</td>
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</table>

Lot 20, KSU EAGLE 55H, is a full brother to 64G (pictured left), who was the $20,000 high-selling female in the 2020 KSU Legacy Sale.
Our Hereford Program

Balance best describes the selection strategy used in our Hereford program. Our aim is to build Hereford genetics with calving ease, growth and end-product merit. Hereford is a proven complement to Angus-based cow herds to add adaptability, feed efficiency, fleshing ability, moderation of lactation potential and the added value of maternal heterosis to create replacement females with longevity and profit potential.

The venerable black-baldie female is famous for a reason. Baldie cows are a natural fit to Flint Hills production systems. We are confident you’ll find value and profit in a planned crossbreeding system. Build your program using our strategically designed Hereford bulls. Ask us for advice on the design and implementation of a structured crossbreeding system to achieve your production and profit goals.

Going forward, we will add extensive evaluation of feed intake and feed efficiency as cattle are developed in the Purebred Beef Unit’s Bull and Heifer Development Center. In the coming year, we’ll add extensive evaluation of feed intake and feed efficiency to our Hereford selection criteria to make these “Efficiency Experts” even more valuable to our customers.

Below are reference sires for this year’s Hereford bull offering:

**NJW 79Z Z311 ENDURE 173D ET**
Reg #: 43722088 DOB: 2/22/2016 Tattoo: 79Z173D
SCHU-LAR ON TARGET 22S
KCF BENNET ENCOURSE Z311 ET
KCF MISS REVOLUTION X338 ET
NJW 73S M326 TRUST 100W ET
BW 91H 100W RITA 79Z ET
REMITALL RITA 91H

<table>
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<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>+1.4</td>
<td>+4.2</td>
<td>+78</td>
<td>+131</td>
<td>+1.5</td>
<td>-1.6</td>
<td>+28</td>
<td>+67</td>
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<table>
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<tr>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>+0.034</td>
<td>+0.81</td>
<td>+0.27</td>
<td>+0.9</td>
<td>+$479</td>
<td>+$587</td>
<td>+$154</td>
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</table>

**NJW 84B 10W JOURNEY 53D ET**
Reg #: 43721750 DOB: 2/1/2016 Tattoo: 84B53D
KJ C&J J119 LOGIC 023R ET
LJR 023R WHITMORE 10W
LJR MICKEY 278N
NJW 73S M326 TRUST 100W ET
NJW 16S 100W JOEY 84B ET
TLELL 117F JOEY 16S

<table>
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<th>YW</th>
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<th>MCE</th>
<th>Milk</th>
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<tr>
<td>+10.5</td>
<td>+0.4</td>
<td>+66</td>
<td>+104</td>
<td>+1.4</td>
<td>+6.2</td>
<td>+23</td>
<td>+56</td>
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<th>$CHB</th>
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<tbody>
<tr>
<td>+0.034</td>
<td>+0.68</td>
<td>+0.13</td>
<td>+0.7</td>
<td>+$434</td>
<td>+$520</td>
<td>+$135</td>
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</table>

**NJW 73S 980 HUTTON 109Z ET**
Reg #: 43311893 DOB: 2/24/2012 Tattoo: 73S109Z
GO L18 EXCEL T31
CRR HELTON 980
CRR 98 JULIANNE 405
PW VICTOR BOOMER P606
NJW P606 72N DAYDREAM 73S
NJW 94J DEW 72N

<table>
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<th>CED</th>
<th>BW</th>
<th>WW</th>
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<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>+5.0</td>
<td>+2.6</td>
<td>+55</td>
<td>+94</td>
<td>+0.2</td>
<td>+5.6</td>
<td>+39</td>
<td>+67</td>
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<table>
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<tbody>
<tr>
<td>-0.006</td>
<td>+0.80</td>
<td>-0.09</td>
<td>+0.5</td>
<td>+$442</td>
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<td>+$107</td>
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### LOT 30 - KSU TRAVELER 004

<table>
<thead>
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<th>YW</th>
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<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10.1</td>
<td>+0.8</td>
<td>+56</td>
<td>+89</td>
<td>+1.5</td>
<td>+6.8</td>
<td>+25</td>
<td>+53</td>
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<table>
<thead>
<tr>
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<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
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<tbody>
<tr>
<td>+0.054</td>
<td>+0.47</td>
<td>+0.17</td>
<td>+0.7</td>
<td>+$373</td>
<td>+$452</td>
<td>+$119</td>
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</table>

Ranks in top 5% CE and SC; top 10% MCE and top 15% BW. Excellent calving ease prospect raised by a top 2 year old who is a full sister to Lots 34-36. Well balanced, sound made and practical.

### LOT 31 - KSU ENDURE 056 ET

<table>
<thead>
<tr>
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<th>MCE</th>
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<th>M&amp;G</th>
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<tbody>
<tr>
<td>+3.3</td>
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<td>+68</td>
<td>+115</td>
<td>+0.9</td>
<td>-0.4</td>
<td>+33</td>
<td>+66</td>
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<table>
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<th>DMI</th>
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<th>$CHB</th>
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<tbody>
<tr>
<td>+0.034</td>
<td>+0.59</td>
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<td>+0.5</td>
<td>+$398</td>
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</table>

Ranks in top 1% $CHB; top 2% YW and Marb; top 3% M&G; top 4% WW; and top 10% Milk. Rugged, functional, well-balanced and high performance herd sire prospect. He uniquely combines that with top of the breed figures for growth and carcass traits.

### LOT 32 - KSU ENDURE 061 ET

<table>
<thead>
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<th>YW</th>
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<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>+6.2</td>
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<td>+67</td>
<td>+109</td>
<td>+0.9</td>
<td>+1.1</td>
<td>+32</td>
<td>+66</td>
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<table>
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<th>DMI</th>
<th>$BMI</th>
<th>$BII</th>
<th>$CHB</th>
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<tbody>
<tr>
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<td>+0.37</td>
<td>+0.5</td>
<td>+$365</td>
<td>+$465</td>
<td>+$151</td>
</tr>
</tbody>
</table>

Ranks in top 3% Marb and $CHB; top 4% YW and M&G; top 5% WW; and top 10% Milk.

---

**THANKS TO THESE HEREFORD BREEDERS FOR SUPPORTING THE K-STATE PUREBRED BEEF UNIT:**

- Jensen Bros.
- Sandhill Farms
- Schu-Lar Herefords
- Perez Cattle Co.
- Werk Herefords
**HEREFORD BULLS**

**K33 KSU HUTTON 985**

Reg #: 44089665  DOB: 9/9/2019  Tattoo: 985

- CRR HELTON 980
- NJW 73S 980 HUTTON 109Z ET
  - NJW P606 72N DAYDREAM 73S
  - EFBEF SCHU-LAR PROFICIENT N093
- KSU MISS PROFICIENT 004
  - KSU MISS HARLAND 809

<table>
<thead>
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<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
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<tbody>
<tr>
<td>+2.9</td>
<td>+2.9</td>
<td>+56</td>
<td>+108</td>
<td>+0.9</td>
<td>+1.8</td>
<td>+35</td>
<td>+64</td>
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<table>
<thead>
<tr>
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<th>DMI</th>
<th>$BMI</th>
<th>$BI</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>+0.064</td>
<td>+0.61</td>
<td>+0.03</td>
<td>+0.4</td>
<td>+455</td>
<td>+30</td>
<td>+107</td>
</tr>
</tbody>
</table>

Ranks in the top 4% $BMI; top 5% Milk and $BI; and top 10% M&G and REA. An older fall bull ready for heavier service.

**K34 KSU HUTTON 987 ET**

Reg #: 44089667  DOB: 10/16/2019  Tattoo: 987

- CRR HELTON 980
- NJW 73S 980 HUTTON 109Z ET
  - NJW P606 72N DAYDREAM 73S
  - KJ HVH 33N REDEEM 485T ET
- KSU MISS REDEEM 423
  - KSU MISS HARLAND 809

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>+2.7</td>
<td>+3.2</td>
<td>+57</td>
<td>+102</td>
<td>+1.0</td>
<td>+2.7</td>
<td>+25</td>
<td>+53</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BI</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>+0.014</td>
<td>+0.62</td>
<td>-0.01</td>
<td>+0.3</td>
<td>+415</td>
<td>+483</td>
<td>+109</td>
</tr>
</tbody>
</table>

Ranks in the top 10% REA. An older fall bull from a consistent, high-quality mating. His spring full brothers sell as 35-36. Rugged and powerful horned bull.

**K35 KSU HUTTON 063 ET**

Reg #: 44173066  DOB: 3/4/2020  Tattoo: 063

- CRR HELTON 980
- NJW 73S 980 HUTTON 109Z ET
  - NJW P606 72N DAYDREAM 73S
  - KJ HVH 33N REDEEM 485T ET
- KSU MISS REDEEM 423
  - KSU MISS HARLAND 809

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1.8</td>
<td>+3.9</td>
<td>+59</td>
<td>+97</td>
<td>+0.7</td>
<td>+0.5</td>
<td>+30</td>
<td>+60</td>
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</table>

<table>
<thead>
<tr>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BI</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>+0.014</td>
<td>+0.61</td>
<td>+0.01</td>
<td>+0.3</td>
<td>+392</td>
<td>+461</td>
<td>+113</td>
</tr>
</tbody>
</table>

Ranks in the top 10% REA.

**K36 KSU HUTTON 062 ET**

Reg #: 44173065  DOB: 3/3/2020  Tattoo: 062

- CRR HELTON 980
- NJW 73S 980 HUTTON 109Z ET
  - NJW P606 72N DAYDREAM 73S
  - KJ HVH 33N REDEEM 485T ET
- KSU MISS REDEEM 423
  - KSU MISS HARLAND 809

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.7</td>
<td>+2.6</td>
<td>+55</td>
<td>+84</td>
<td>+0.6</td>
<td>+3.2</td>
<td>+28</td>
<td>+56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fat</th>
<th>REA</th>
<th>Marb</th>
<th>DMI</th>
<th>$BMI</th>
<th>$BI</th>
<th>$CHB</th>
</tr>
</thead>
<tbody>
<tr>
<td>+0.034</td>
<td>+0.66</td>
<td>-0.06</td>
<td>+0.3</td>
<td>+414</td>
<td>+476</td>
<td>+95</td>
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</table>

Ranks in the top 5% REA; and 15% $BMI.
**K37 KSU HUTTON 051 ET**

Reg #: 44173046 HYC  
DOB: 1/19/2020  
Tattoo: 051

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-5.7</td>
<td>+3.6</td>
<td>+51</td>
<td>+81</td>
<td>+0.5</td>
<td>-0.6</td>
<td>+31</td>
<td>+57</td>
</tr>
</tbody>
</table>

Ranks in the top 15% Milk. Hypotrichosis Carrier. Dam is still around at 18 years of age and is a maternal sister to a Denver champion. Maternal strength and longevity with performance. Full bro is Lot 38.

**K38 KSU HUTTON 052 ET**

Reg #: 44173046  
DOB: 1/22/2020  
Tattoo: 052

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
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<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1.8</td>
<td>+2.6</td>
<td>+44</td>
<td>+71</td>
<td>+0.7</td>
<td>+1.4</td>
<td>+30</td>
<td>+51</td>
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</table>

**K39 KSU HUTTON 053**

Reg #: 44171758  
DOB: 2/3/2020  
Tattoo: 053

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>MCE</th>
<th>Milk</th>
<th>M&amp;G</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.8</td>
<td>+1.6</td>
<td>+58</td>
<td>+92</td>
<td>+0.6</td>
<td>+2.0</td>
<td>+34</td>
<td>+63</td>
</tr>
</tbody>
</table>

Ranks in the top 4% $BMI; top 5% $BII; top 10% Milk and M&G; and top 15% FAT.
SELLING CHOICE TO FLUSH THESE THREE ASHLAND FULL SISTERS …

- Buyer chooses the female they wish to flush to the bull of their choice.

- Buyer is guaranteed a minimum of six transferable embryos and two pregnancies. Any embryos produced over 10 is split between the buyer and seller. The buyer is responsible for all flush and semen costs. The flush will be conducted by Cross Country Genetics. The choice of donor must be made by March 1, 2021. The flush will be conducted by mid-late March 2021.

- An uncommon opportunity to flush your pick of three truly unique young full sisters to any bull you wish. Their combination of both exceptional genotypic strength and phenotype is exciting. Simply put, it is hard to find and create cattle that can combine both things at the level these do. As a result, all three of these females will enter the donor lineup here. This is your chance to join in on the front end with us!

- Flush sisters to Lot 1.

**KSU RITA 0160** Reg #: 19863416

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>0.8</td>
<td>82</td>
<td>140</td>
<td>-0.25</td>
<td>12</td>
<td>17</td>
<td>-0.004</td>
<td>0.95</td>
<td>1.19</td>
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</table>

DMI DOC $EN $W $F $G $B
1.26 25 -34 75 87 83 170

Ranks in the top 2% CED, WW and $G; 4% YW; 5% Marb; 10% BW, RE, $W and $B; and 15% CEM.

**KSU RITA 0158** Reg #: 19863415

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
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<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
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<tbody>
<tr>
<td>13</td>
<td>-1</td>
<td>85</td>
<td>140</td>
<td>0.57</td>
<td>15</td>
<td>36</td>
<td>0.012</td>
<td>0.87</td>
<td>1.31</td>
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</table>

DMI DOC $EN $W $F $G $B
1.65 32 -35 106 66 86 152

Ranks in the top 1% $W and $G; 2% WW, CEM and DOC; 3% Marb and Milk; 4% YW; and 5% CED and 15% RE.

**KSU RITA 0164** Reg #: 19863417

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
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<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
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<tbody>
<tr>
<td>14</td>
<td>1.1</td>
<td>86</td>
<td>140</td>
<td>1.08</td>
<td>10</td>
<td>30</td>
<td>0.03</td>
<td>0.8</td>
<td>1.21</td>
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DMI DOC $EN $W $F $G $B
1.25 24 -35 97 81 79 160

Ranks in the top 1% WW and $W; 3% CED and $G; 4% YW and Marb; and 15% Milk and $B.
### KSU MISS PROPHET 5187

**Reg #: 18343774**  
**DOB: 2/06/2015**  
**Tattoo: 5187**  

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1.2</td>
<td>63</td>
<td>105</td>
<td>0.78</td>
<td>12</td>
<td>21</td>
<td>0.026</td>
<td>0.32</td>
<td>1.19</td>
</tr>
</tbody>
</table>

DMI DOC $EN $W $F $G $B  
1.79 16 -4 66 67 72 139

Al bred 12/01/2020 to GAR Ashland (Reg. # 1821798).  
Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

### KSU MISS ALL IN 6156

**Reg #: 18671883 [DDP]**  
**DOB: 1/14/2016**  
**Tattoo: 6156**  

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>1.1</td>
<td>69</td>
<td>120</td>
<td>1.18</td>
<td>14</td>
<td>18</td>
<td>-0.013</td>
<td>0.67</td>
<td>0.52</td>
</tr>
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</table>

DMI DOC $EN $W $F $G $B  
1.11 12 -19 64 80 49 129

Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

### KSU MISS COMRADE 6176

**Reg #: 18589831 [DDP]**  
**DOB: 2/03/2016**  
**Tattoo: 6176**  

Connealy Consensus 7229  

**CONNEALY COMRADE 1385**  
Happy Gee of Conanga 919  
G A R New Design 5050  

**KSU MS DESIGN 5050 2174**  
KSU Miss In Focus 9179

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>0.2</td>
<td>60</td>
<td>106</td>
<td>0.81</td>
<td>7</td>
<td>21</td>
<td>-0.007</td>
<td>0.65</td>
<td>0.71</td>
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</table>

DMI DOC $EN $W $F $G $B  
0.54 32 -13 60 84 57 141

Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

### KSU MISS ABSOLUTE 6197

**Reg #: 18671602**  
**DOB: 2/21/2016**  
**Tattoo: 6197**

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>YW</th>
<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.6</td>
<td>64</td>
<td>119</td>
<td>0.82</td>
<td>11</td>
<td>20</td>
<td>-0.007</td>
<td>0.74</td>
<td>0.64</td>
</tr>
</tbody>
</table>

DMI DOC $EN $W $F $G $B  
1.17 20 -24 59 100 55 155

Al bred 12/21/2020 to GAR Ashland (Reg. # 1821798).  
Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

### KSU MISS COMPLEMENT 7135

**Reg #: 19067784 [DDP]**  
**DOB: 3/17/2017**  
**Tattoo: 7135**

<table>
<thead>
<tr>
<th>CED</th>
<th>BW</th>
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<th>SC</th>
<th>CEM</th>
<th>Milk</th>
<th>Fat</th>
<th>RE</th>
<th>Marb</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>-0.4</td>
<td>54</td>
<td>92</td>
<td>1.04</td>
<td>8</td>
<td>29</td>
<td>0.029</td>
<td>0.4</td>
<td>0.86</td>
</tr>
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</table>

DMI DOC $EN $W $F $G $B  
1.31 16 -6 67 81 58 138

Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

---

**The Legacy Sale • asi.ksu.edu/bullsale**

23
Last fall, K-State and the agriculture industry lost a great teacher, ag policy leader and friend to the ASI Department and Purebred Beef Unit. Dr. Barry Flinchbaugh, whose remarkable career in agricultural policy at K-State spanned nearly a half-century, passed away Nov. 2. To the left, he is pictured at the very first K-State Bull Sale in 1977.
KSU MISS ALL AROUND 9C
Reg #: 3019543 DOB: 1/19/2015 Tattoo: 9C
Purebred Simmental
WS BEEF KING W107
WS ALL-AROUND Z35
CDI MS HIGH ROLLER 39W
TJ SHARPER IMAGE 809U
KSU SHARPER IMAGE 25A
KSU MISS INVASION 38W
CE | BW | WW | YW | MCE | Milk | MWW | Stay |
---|---|---|---|---|---|---|---|
13.9 | 2.3 | 94.0 | 146.1 | 8.4 | 16.9 | 63.8 | 20.2 |
Marb | BF | REA | API | TI |
0.18 | -0.087 | 0.81 | 150.0 | 87.7 |
Al bred 12/01/2020 to GSC GCCO Dew North 102C (Reg. # 3141837). Pasture exposed to Spring Grove Duel (Reg. # 19324031) from 12/28/2020 - 2/2/2021.

KSU MISS COWBOY CUT 3F
Reg #: 3391591 DOB: 1/07/2018 Tattoo: 3F
Purebred Simmental
TRIPLE C SINGLETARY S3H
CCR COWBOY CUT 504BZ
CCR MS 4045 TIME 7322T
CCR WIDE RANGE 9005A
KSU MISS WIDE RANGE 73D
KSU MISS BEEF 3R
CE | BW | WW | YW | MCE | Milk | MWW | Stay |
---|---|---|---|---|---|---|---|
16.5 | -1.9 | 74.0 | 101.8 | 9.4 | 21.5 | 58.4 | 25.2 |
Marb | BF | REA | API | TI |
0.02 | -0.071 | 1.06 | 152.3 | 77.1 |

THANKS TO SELECT SIRES, LORNA MARSHALL AND BRIAN HOUSE FOR THEIR CONTINUED SUPPORT OF THE K-STATE PUREBRED BEEF UNIT
These heifers are all vaccinated, bangs, freeze branded and ready to breed. They will be sold in groups of three. Buyer does have option to take as many lots as they wish.

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>K56</td>
<td>ANGUS PUREBRED COMMERCIAL HEIFERS</td>
<td>Sired by Mill Brae Endurance 2118.</td>
</tr>
<tr>
<td>K57</td>
<td>ANGUS PUREBRED COMMERCIAL HEIFERS</td>
<td>Sired by Mill Brae Endurance 2118 and Mohnen Hesston 2836.</td>
</tr>
<tr>
<td>K58</td>
<td>ANGUS PUREBRED COMMERCIAL HEIFERS</td>
<td>Sired by Mill Brae Endurance 2118.</td>
</tr>
<tr>
<td>K59</td>
<td>ANGUS PUREBRED COMMERCIAL HEIFERS</td>
<td>Sired by Mill Brae Endurance 2118 and KSU Conversation 7168.</td>
</tr>
<tr>
<td>K60</td>
<td>BLACK COMMERCIAL HEIFERS</td>
<td>Sired by KSU Complement 5195.</td>
</tr>
<tr>
<td>K61</td>
<td>BLACK COMMERCIAL HEIFERS</td>
<td>Sired by KSU Complement 5195.</td>
</tr>
<tr>
<td>K62</td>
<td>SIMMENTAL COMMERCIAL HEIFERS</td>
<td>Simmental-influenced, half blood to purebreds. Sired by KSU Prophet 7158E and KSU Milestone 72E.</td>
</tr>
</tbody>
</table>
offering

5 RANCH PERFORMANCE HORSES

at the Farmers & Ranchers
Spring Spectacular Catalog Horse Sale

May 15, 2021 | 10 AM
Salina, KS
horse preview at sale
or call for appointment at the KSU Horse Unit

not pictured

KSU Surely Golden
2018 palomino mare
14 H by Surely A Pepto

KSU Highbrow Playboy
2017 brown gelding
14.2 H by Attacat

KSU Shiny Sweet Buck
2017 buckskin roan gelding
15 H by Two ID Sweet Buck

KSU Flydox
2018 sorrel gelding
14.3 H by Playdox

KSU Hot Gin Toddy
2018 sorrel gelding
15 H by ER Hot Chex

visit our FB page for updates, videos,
& more horses being offered!

EQUINE REPRODUCTIVE SERVICES

Contact KSU Horse Unit or the Veterinary Health Center
to discuss mare & stallion breeding management.

outside stallions
Amarilobymorning
Sixes Sixgun
Buckaroo Shorty Lena
Dash Ta Blue Flame
Ikes Triple Drift

KSU owned stallions
Millenium One

Veterinary Health Center
KSU Horse Unit
Veterinary Health Center
Equine Reproduction
Equine Services
Jason Grady, DVM
785-532-5700

Sterling Buist, PhD | Manager | 785-313-3323 | sbuist@ksu.edu | K-State Horse Unit Facebook Page
Commercial cattlemen should do their homework to help ensure the bull(s) they purchase this year meet their needs. Like most things in life, preparedness is the key to making an informed decision or in this case, an informed purchase. Remember, bull selection accounts for more than 75% of the gene flow in your herd in just two generations. Take the time to do the $500/hour work in bull selection and let some of the $5/hour work wait until after bull purchases are made. Before you crack open the sale catalogs of seedstock suppliers, there are a few resources and skills you should possess.

First, make sure you understand the use of Expected Progeny Differences (EPD) and selection indexes. While EPDs are not the only selection information you should consider, EPDs are the most effective tools available to describe the genetic differences between animals within and across herds. EPDs are much more effective genetic predictors than actual or adjusted performance records. If an EPD is available for a trait, it should be used instead of an animal’s own performance record for that trait. The EPD removes age and environmental effects that can bias a decision based on actual or adjusted performance records. Use Calving Ease (CE or CED) EPD, rather than birth weight (BW) EPD, if it’s available, to select bulls that minimize calving difficulty. CE EPD s include BW data and other sources of information that affect dystocia.

Second, make sure you know what traits you would like to improve on in your herd. What breed(s) fit in your mating system? If you are using a crossbreeding system, make sure the breed you select fits your objectives. Other factors to consider are: keeping replacement heifers and endpoints for pregnancy marketing (weaning, backgrounded or in-the-beef). Assessment of these factors will help point you to the best breed for your needs and the combinations of maternal/growth/carcass traits that best fit your operation and environment. Be sure to apply selection to traits that have direct economic importance in your production system. Selection indexes can be very useful tools to point you to the best overall candidates across a range of traits important to profit. Make sure the index you employ matches your production and marketing scenarios.

Third, set a realistic budget for bull purchases. Like most things in life, price is driven by quality. Evaluation of a seedstock supplier’s prior year sale averages will give you an idea of what to expect in terms of purchase costs. A good rule of thumb is that a quality seedstock bull costs roughly the same as the value of four to five feeder steers in the current market. The purchase cost highlights the importance of making a well thought out decision.

Fourth, and maybe the most important, make sure we get to know you. As your seedstock supplier, it’s important we know your operational goals. We can provide recommendations from our sale offering that help attain those goals. Once you receive our sale catalog, make a short list of bulls (roughly three times more than you actually need to purchase) that fit your specifications. Arrive at the sale site early to inspect the bulls on your short list. Shorten this list of candidates based on conformation and updated data to identify your purchase candidates. Keep the sale order in mind. Stay focused on the bulls you selected earlier. Sticking to your plan will avoid impulse purchases. Your success is our success. We’d like nothing more than to help you make a sound genetic investment!

Fifth, after-the-sale bull care is very important and often overlooked. The longevity of your bull purchase and ultimately the return on your genetic investment is dependent on the number of calves your new bull produces in your herd. As a rule of thumb, young sires should be exposed to the number of females equal to his months of age. For example, a 14-month-old bull should be turned out with 14 cows/heifers for not more than 60 days. Make sure that you provide adequate rest between breeding seasons if using spring and fall. Once you pull a yearling bull from the breeding herd, make sure he has adequate nutrition. Remember he’s still growing until he’s 4-5 years old. During periods of limited forage, he should be supplemented with adequate high quality hay and a protein supplement. Make protein available to ensure the best use of dormant forages. Bulls should be in body condition 5.5-6 at turnout. Don’t forget to provide salt and mineral free choice, to control flies and parasites as needed, and annual vaccinations for blackleg, respiratory and venereal diseases. An annual breeding soundness exam is recommended prior to turn out.

We look forward to visiting with you before the sale and the opportunity to earn your business. We are here after the sale, too, and can provide expert advice on the management of your herd.

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Kansas State University’s purebred beef herd was established in 1881 with the purchase of an Aberdeen-Angus heifer, Eyebright 4th 7131 (7446), from the Ontario Agricultural College. A Hereford bull and heifer — Parley 30782 and Miss Beau Real 7th 30781 — were purchased from George Fowler, Maple Hill, Kansas, in 1888. These two breeds made up the herd until it was disposed in 1897 due to tuberculin test reactions and an order from the Board of Regents. The Board’s order was the result of concern across the state that K-State’s cattle should be “practical farmer’s livestock” instead of purebred animals. The herd was then reestablished in 1901 with seven different breeds of beef, dairy and dual-purpose cattle.

THE UNIT

The Purebred Beef Unit annually runs nearly 300 breeding-age purebred Angus, Hereford and Simmental cows on 4,000 acres of native bluestem grass. The Headquarters and Calving Center is located at the edge of campus near the Stanley Stout Center off of Denison Avenue. This location includes the calving and maternity barn, multipurpose space, office spaces and an apartment for student workers. Animal holding pens, pasture space, processing, feed storage and shop are adjacent to this facility. The Bull and Heifer Development Center is adjacent to the existing Beef Cattle Research Center north of Marlatt Avenue. This location has covered feed bunks and an automated individual animal feed and water intake monitoring system situated in a dry lot condition. The facility also has animal holding pens and a processing area. Mature females are maintained northeast of town about 10 miles at the Cedar Creek Ranch headquarters. This ranch, located just off Highway 13, serves an instrumental role in the teaching aspect of our operation.

MISSION AND PURPOSE

Our mission is to provide undergraduate students with practical experience in breeding, feeding, management and marketing of purebred seedstock as well as give livestock selection, general animal science courses and students from colleges across the nation the opportunity to evaluate quality cattle. Each year hundreds of students utilize cattle raised at this unit. The herd also provides an opportunity to demonstrate breeding programs for genetic improvement of seedstock, using genomics, performance testing, artificial insemination, embryo transfer and ultrasound carcass evaluation.

Applied research trials are conducted using cattle produced in this herd, such as synchronized artificial insemination, feed efficiency and feed additive research. Cattle are also used for teaching purposes in classes such as Livestock Sales Management, Pregnancy Diagnosis, Calving, Livestock and Meat Evaluation, and used for competition in the annual Little American Royal. A portion of the cattle produced in this herd are merchandized in the annual “Legacy” Bull and Female Sale held the first Friday in March. This sale is unique to the nation because it provides students hands-on, practical experience in purebred cattle marketing.

PRODUCTION SALES

In 2017, we celebrated the 40th Bull and Female Sale. The success of the sale all started with the first Special K production sale hosted in 1977. This first sale was unique to the nation because it was a university sale organized and managed by students. A sale has been hosted each school year since 1977. Early sales rotated between Angus, Simmental and Hereford cattle. In 1987, it was decided to sell all breeds in one annual sale.

K-State’s most distinguished animal was the Angus heifer Manhattan Gal. Her national reputation was the momentum behind the first Special K Edition sale. Manhattan Gal was the Supreme Champion Individual at the 1976 Angus Futurity, and the Grand Champion Angus Female at the American Royal, North American International Livestock Exposition and the National Western Stock Show. The highest selling individual in a Special K sale was Slammer K 04T4, a Hereford bull. He was purchased in 1981 by C K Hereford Ranch, Brookville, Kansas, for $12,500. In 2011, a Hereford bull, KSU Revolution 02T1, commanded $11,100 and went to K-State alums Austin and Emilie Fink of Wamego, KS, and Mike and Shelia Miller of Womelsdorf, PA. K-State’s highest selling female was KSU Miss Dorothy, a Simmental heifer calf that sold at the National Western Stock Show for $25,000.

In 2008, the name of the sale was changed to the “Legacy” sale to honor 127 years of continuous beef improvement. The K-State Purebred Beef Unit might be the most unique experience offered to current and potential students in agricultural colleges across the nation. The educational opportunities available to students producing, promoting and merchandising high-quality purebred cattle continues to play a fundamental role in a program that has been nationally recognized for excellence in teaching, research and extension.
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