49th Annual CSU Bull & Female Sale

February 21, 2026 | 11 am MST

CSU-ARDEC Conference Center | Fort Collins, CO

Selling: Age- Advantaged, Altitude Tested Angus, Hereford, and Polled Hereford Bulls, Plus Bred Females

COLORADO STATE UNIVERSITY

Seedstock Team 2025-2026

Samantha Cunningham
Faculty Advisor

Grace Stott
Redmond, OR

Melanie Astorga-Faudoa
Greeley, CO

Hailey Wood
Sacramento, CA

Matthew Hawkins
Brighton, CO

CSU Seedstock Merchandising Team

- Colorado State University 2025-26 Seedstock Sales Class -

(L to R): Melanie Astorga-Faudoa, Greeley, CO; Hailey Wood, Sacramento, CA; Samantha Cunningham, PhD, course instructor and Seedstock Team Faculty Advisor; Grace Stott, Redmond, OR; and Matthew Hawkins, Brighton, CO. Not pictured: Kody Garcia, Farmington, NM.

Since 1976-77, under the direction of Dr. Bob Taylor, and later Drs. Tom Field and Jason Ahola, and now, Dr. Samantha Cunningham, CSU students have worked together to study purebred cattle marketing, herd pedigrees and production records, and seedstock sales management with the intent of planning, managing, and hosting the Annual CSU Bull & Female Sale. This year is no different, and these students are diligently studying and working to bring you the 49th Annual Sale to be held on February 21, 2026 at CSU-ARDEC in Fort Collins. Please be sure to save the date! To request a catalog or to preview sale cattle, please reach out to Dr. Cunningham.

About the team

Matthew is a very recent graduate of CSU – graduating in December 2025 with a major in Animal Sciences and a minor in Agricultural Business. During his time at CSU, he was also a member of the CSU Ag Ambassadors. Looking ahead, Matthew would like to work with seedstock cow-calf operations to apply production principles gained through coursework and internship experiences, in addition to applying the detailed experiences gained through his involvement on the Seedstock Merchandising Team. His favorite part of the Seedstock Team is becoming close friends with teammates and working together to solve issues and achieve goals. When Matthew isn't working in the barn, he enjoys hunting and fishing. When asked why other students should participate in the Seedstock Merchandising Program at CSU, Matthew said, "Seedstock has been one of the most rewarding experiences of my college career, and I believe that this experience is invaluable to anyone who has a desire to work in the livestock industry. This team teaches you how to work in a team setting and overcome adversity while working towards a common goal with a relatively short time frame."
— Matthew Hawkins – Brighton, CO

Melanie is a Junior at CSU majoring in Animal Sciences and minoring in Intermediate Law Studies. She's also very involved on campus – CSU Ag Ambassadors, Ag Leadership Resident Learning Community, Sigma Alpha Professional Sorority, Lideres in Agriculture, and Herd Health Club. Melanie hopes to attend vet school focusing on food animals or law school with an emphasis in ag policy. Her favorite thing about the Seedstock Team has been the people. In her free time, Melanie likes spending time with family, cooking alongside her mom, hanging out with her Corgi Paco, and painting. When asked why other students should participate in the Seedstock Merchandising program at CSU, she said, "It not only sets you up for success and responsibility, but you will get a family through doing this."
— Melanie Astorga Faudoa – Greeley, CO

Hailey is a Sophomore at CSU double majoring in Animal Sciences and Equine Science planning to graduate Spring 2028. At CSU, she's also a member of the Stress Physiology Lab and CSU Ag Ambassadors. After graduation, Hailey would like to work in the area of advanced reproduction technologies in cattle and small ruminants. Her favorite thing about the Seedstock Team has been making breeding recommendations and feeding show heifers as a team on the weekends. When she's not in the show barn or the sheep barn, Hailey likes wake surfing, snowboarding, and going to the racetrack. When asked why other students should participate in the Seedstock Team, Hailey said, "There is more to the Seedstock Program than what you may think. On the surface, members gain valuable real-world experience in all aspects of cattle management and handling. From working pen cattle in the barn week in and week out or getting sale bulls ready to sell in the spring, there is no doubt that members will come out as better stewards. There is an aspect of this team though that is almost something that can only be experienced. When a group of students with so much passion, determination, and grit come together with a shared goal to be better than the day before, really neat things start to happen. Each year the quality of cattle are getting better, the bull sale's success is increasing, and people are starting to whisper. It is an honor this year to be apart of such an amazing team and to work with cattle that have such a big history and an even bigger future."
— Hailey Wood – Sacramento, CA

Grace is a Sophomore at CSU studying Animal Sciences with a minor in Agricultural Business and plans to graduate Spring 2028. Outside of the Seedstock Team, Grace is a member of the CSU Ag Ambassadors and the Stockgrowers Association. After graduation she hopes to pursue a career in animal breeding and genetics within the seedstock beef cattle industry. Raised on her family's ranch in Oregon, Grace has developed and shaped a passion for improving genetics and helping producers build more productive, efficient herds. She aims to be part of the next generation driving positive change and long-term progress in the beef industry. To date, Grace's favorite part of the Seedstock Team has been the memories and relationships made with her team—spending long hours in the barn together washing heifers, having both light-hearted and deep conversations riding to bull sales or more colorful conversations in the picture pen. She has genuinely made friends that will last a lifetime and the Seedstock Team experience has completely changed the trajectory of her college career. When asked why future students should participate in the Seedstock Program at CSU, Grace said, "Joining the Seedstock Program gives you hands-on experience working with cattle every day, from evaluating genetics to helping with management and preparation for our annual bull sale. It's challenging, it's fun, and it teaches you skills and lessons that will stick with you long after graduation that you could never gain in a classroom. If you're looking to grow as a producer, a teammate, and a future leader in the beef industry, this program is an amazing opportunity."
— Grace Stott – Redmond, OR

Welcome to the 49th Annual

CSU Bull & Female Sale

Nearly half a century of tradition and proven performance. Colorado State University is rich in tradition and the Annual Bull & Female Sale is no exception. As you preview the information to follow, please note that we are once again selling age-advantaged bulls. These bulls are ready to work and should be able to cover more females. Again, this year, you'll find bulls and females from the CSU-Beef Improvement Center (CSU-BIC) at Saratoga, WY. We have partnered with CSU-BIC to deliver you registered Angus bulls born and raised at higher elevations. These cattle were brought to CSU-ARDEC after weaning and developed alongside the Angus and Herefords born and raised here near Fort Collins. Cattle from CSU-BIC will be identified as such later in this catalog.

Listed on the following pages you will find performance, reproductive, and pedigree information, as well as EPDs on just over 40 bulls and females from a source you can trust. All cattle in the sale have tested free of persistent BVD. Every bull listed in the catalog has undergone a complete reproductive and soundness exam to ensure that they are ready to go to work for you. All females have been palpated safe in calf as recent as 30-days prior to sale day.

After weaning, bulls and females were tested for gain and feed efficiency. All cattle listed here have been PAP tested by Dr. Tim Holt, DVM; and different than in years past, bulls continued to develop in Fort Collins at CSU-ARDEC through the summer and fall. To give you added confidence and assurance, Dr. Holt has provided more detailed explanation regarding PAP scores from moderate elevations. Hereford females and one group of commercial females spent the summer grazing at CSU-ARDEC at Fort Collins, CO. The other group of commercial Angus females listed here are from our CSU-Beef Improvement Center herd at Saratoga, WY; and like the bulls from CSU-BIC, they will be identified as such later in the catalog.

Students enrolled in our Seedstock Merchandising courses have been heavily involved in the selection and preparation of animals for this year's sale. The Seedstock Sales Management class, together with the Seedstock Merchandising Team, as well as others, have taken bull photos, written catalog comments, evaluated data, and helped to clip sale cattle. As I write this letter, Seedstock Team students are making final preparations on one pen of Hereford cattle that they will display and show in The Yards during the 2025 National Western Stock Show – a pen of Spring Yearling Hereford Heifers. Please be sure to ask the students about their time in Denver when you see them at our Annual Sale in February here in Fort Collins.

This year's sale will once again be at CSU-ARDEC in Fort Collins. We will sell cattle in the CSU-ARDEC Conference Center; some of you may remember it as the Taylor Center. As we carry Dr. Taylor's legacy of "learning by doing", what a privilege it is to sell cattle in a facility named for the man who founded the Seedstock Merchandising program at CSU! We have once again partnered with DV Auctions to provide our customers and community the ability to view the sale and bid online. We will be selling cattle on Saturday, February 21, 2026, at 11 a.m. If you will be bidding online, we suggest that you register to bid prior to Sale Day. If you have questions or are interested in bidding alternatives, please reach out to the sale representatives listed in the catalog.

Come early on Saturday morning prior to the sale, we'll have engaging conversations with industry leaders and foster industry connections at CSU-ARDEC. We'll have the coffee on at 7:30, and at 8 a.m. we'll have an engaging Cattle Chat with industry leaders. After which, there will be opportunity to connect with industry professionals and preview cattle until the sale starts at 11 a.m. It's sure to be a great morning!

We invite you to view the bulls any time prior to the sale at the ARDEC facility. Please reach out to any of the sale representatives listed in this catalog for more information on the sale and the cattle listed in this catalog. The Seedstock Team would love to preview the cattle for you before sale day; please contact Dr. Sam Cunningham to schedule a visit. Sale information and videos will be available online (https://agsci.colostate.edu/ansci). We are looking forward to sharing this year's offering with you! Be sure to come early on sale day to join us for coffee and breakfast, connect with industry, visit with our students, and get a preview of the cattle. See you there!

Samantha Cunningham

Samantha Cunningham, Ph.D.
Associate Professor, Animal Sciences
Seedstock Team Faculty Advisor

ANIMAL SCIENCES
COLORADO STATE UNIVERSITY

AGRICULTURAL EXPERIMENT STATION
COLORADO STATE UNIVERSITY

– Thank you –

The Seedstock Merchandising Team and Seedstock Sales Class would like to extend special thanks to the CSU-ARDEC Livestock Staff for all that they do; to Dr. Tim Holt and his team with the CSU Vet Teaching Hospital; to Mr. Nate Lucas and Mr. Bob Pemberton with Northern Feed and Bean; to CSU Alumni Mr. & Mrs. Ty Sexton for their time and expertise shared with students; to Ms. Megan Berg, CSU Alumni with Flying M Photography and Ms. Kaitlyn Fulmer, CSU and Seedstock Team Alumni with Kaitlyn Mackenzie Photography for sharing their time and talents in the picture pen; to the Don Norgren Family for their years of support of this team and the CSU Hereford herd; to Constructive Cattle Services--Mr. Michael Harvey for helping get sale bulls ready; to countless friends, alumni, and fellow students for time and support; and to Dr. Patrick Doyle, Dr. Stephen Coleman, and Dr. Mark Enns in the Animal Sciences Department for their continued support of this curriculum and program. Special thanks to Bowen Tolle with Biozyme, Inc. for sponsoring breakfast sale day, to 287 Ranch Supply for donating ear tags, and to Dennis Anderson and Jhoany Juarez with Dairy Tech for sponsoring buyer's gifts. Thanks also to the following for their support of our herd's genetic progress: Aaron Arnett, ST Genetics; Lorna Marshall, Select Sires; Bobby Strecker, ABS Global; Cody Sankey and Gail Rippe, Genex; Coyote Ridge Ranch and Mayo Ridge Ranch; Rausch Herefords; Churchhill Cattle; Olson Ranches; Sandhill Farms; Brumley Farms; Matheny Herefords; Atkins Herefords; Everhart Herefords; and GKB Cattle. We appreciate your support of the Seedstock Merchandising Team!

CSU Bull & Female Sale

February 21, 2026 | 11 am MST

— *Selling* — **Age- Advantaged, Altitude Tested Angus, Hereford, and Polled Hereford, Plus Bred Females**

2026 LOCATION

CSU-ARDEC Conference Center
4482 E. County Rd., Fort Collins, CO 80524
SALE TIME: 11 a.m. MST

SALE REPRESENTATIVES

Samantha Cunningham, CSU.....979-220-5681
CSU-ARDEC.....970-491-6274
Justin B. Stout, Auctioneer
Stout Auction Services.....913-645-5136
Kane Aegerter, American Hereford Assoc.....402-641-8699
Ryan Large, DV Auction.....308-340-9859
Ty Groshans, Western Livestock Journal.....970-818-6016
Mark Enns, CSU-BIC.....970-988-5854

AUCTIONEER

Justin B. Stout, Stout Auction Services

BIDDING:

We recommend setting up your absentee bidding option prior to sale day. If you have questions regarding bidding, please contact any of the Sale Representatives. Online bidding will be available through DV Auction. High-speed internet connections are recommended. The auctioneer will settle and render a final decision on any disputes pertaining to bidding.

TERMS:

Terms of sale are cash. Checks should be made payable to Colorado State University. All cattle must be paid for before loading. All cattle are the buyer's risk as soon as sold. Announcements made from the auction block will take precedence over the printed material in this catalog.

HEALTH:

Health certificates will be furnished on each lot and out-of-state transport clearance will be obtained. All bulls have tested negative for persistently infected (PI) BVD and trich. All females have tested negative for persistently infected (PI) BVD and have been palpated for pregnancy.

CONTRACT

The previous terms and guarantee shall constitute a contract between the buyer and the seller.

BREEDING GUARANTEE:

All cattle will sell under the suggested terms and conditions of their respective breed associations.
American Hereford Association Guarantee: https://hereford.org/wp-content/uploads/2017/01/Terms-of-Sale-for-Auctions-2009.pdf
American Angus Association Guarantee: https://www.angus.org/general/Docs/suggested_sale_terms.pdf
All claims must be submitted in writing to the seller on/before December 31 of the year purchased, along with semen evaluation and health report, at buyer's expense, from a licensed veterinarian. Seller shall have the privilege of trying bull after his return before making any adjustment. This guarantee is void if there is evidence of improper management in caring for the animal or the bull's inability to breed is due to sickness or injury which incurred after being sold.

LOADING:

Cattle will be available to load out at the conclusion of the sale. Any cattle sold in the sale will be fed and cared for up to 7 days following the sale at CSU-ARDEC, but at the buyer's (owner's) risk. Death or injury after the animal is sold is at the buyer's risk. Delivery is the responsibility of the buyer. CSU will not deliver any cattle, but we will assist buyers in making delivery arrangements. Any cattle left over 7 days will be charged a fee of $25/hd/d. Please contact Samantha Cunningham, CSU Animal Sciences or Christina Nash, CSU-ARDEC following the sale to make arrangements.

RETAINED SEMEN INTEREST:

CSU is retaining a ½ semen interest on all bulls, unless otherwise announced. The buyer will have full and immediate possession of the bull, 100% salvage value, and ½ interest in future semen sales. The retained semen-only interest, which is a royalty interest in future semen sales, will be owned by CSU and will include the right to collect semen on the bull at CSU's expense and the buyer's convenience.

INSURANCE:

Insurance is the responsibility of the buyer.

LIABILITY:

Any persons at the sale do so at their own risk. Colorado State University and its employees assume no liability, legal or otherwise, for accidents which may occur.

REGISTRATION AND TRANSFER

Registration papers on purchased cattle will be transferred to the buyer at the seller's expense.

PAP Risk Category Flow Chart
CSU ARDEC

Timothy N. Holt, DVM, Rhyannon Moore-Foster, DVM
Tested on May 22 and rechecked December 15, 2025
Location of PAP Test: Fort Collins, Colorado — Elevation 5213 feet

PAP Risk Factor
Moderate Elevation Test Chart
PAP tests conducted at elevation 5000-5500 ft.
(70-75% Repeatable, Predictive Value)

AP Score	Use at Low Elev. (<4000 feet)	Use at Moderate Elev. (4000-5500 FEET)	Use at High Elev. (5500-7500 feet)	Use at Extreme (>7500 feet)
34-41	Low Risk	Low Risk	Low Risk	Low Risk
42-44	Low Risk	Low Risk	Low Risk	Moderate Risk
45-49	Moderate Risk	Moderate Risk	Moderate Risk	High Risk
>50	Moderate Risk	Moderate Risk	High Risk	High Risk

*When selecting an animal based on a PAP measurement other factors besides those listed above should be considered such as genetics or pedigree, PAP EPD's, Systolic/Diastolic pressures, breed and previous illness.

*Special consideration should be given to the amount of time the animal was exposed to elevation prior to testing. The predictability and repeatability of the PAP measurement improve with longer exposure to higher elevation (minimum of 4 weeks is required).

*This chart is based on animals greater than 10 months of age. Testing older animals (>12 months) results in a higher predictive and repeatability of the measurement.

*Testing of younger animals (<12months) may result in a greater variability to the predictive and repeatability measurement.

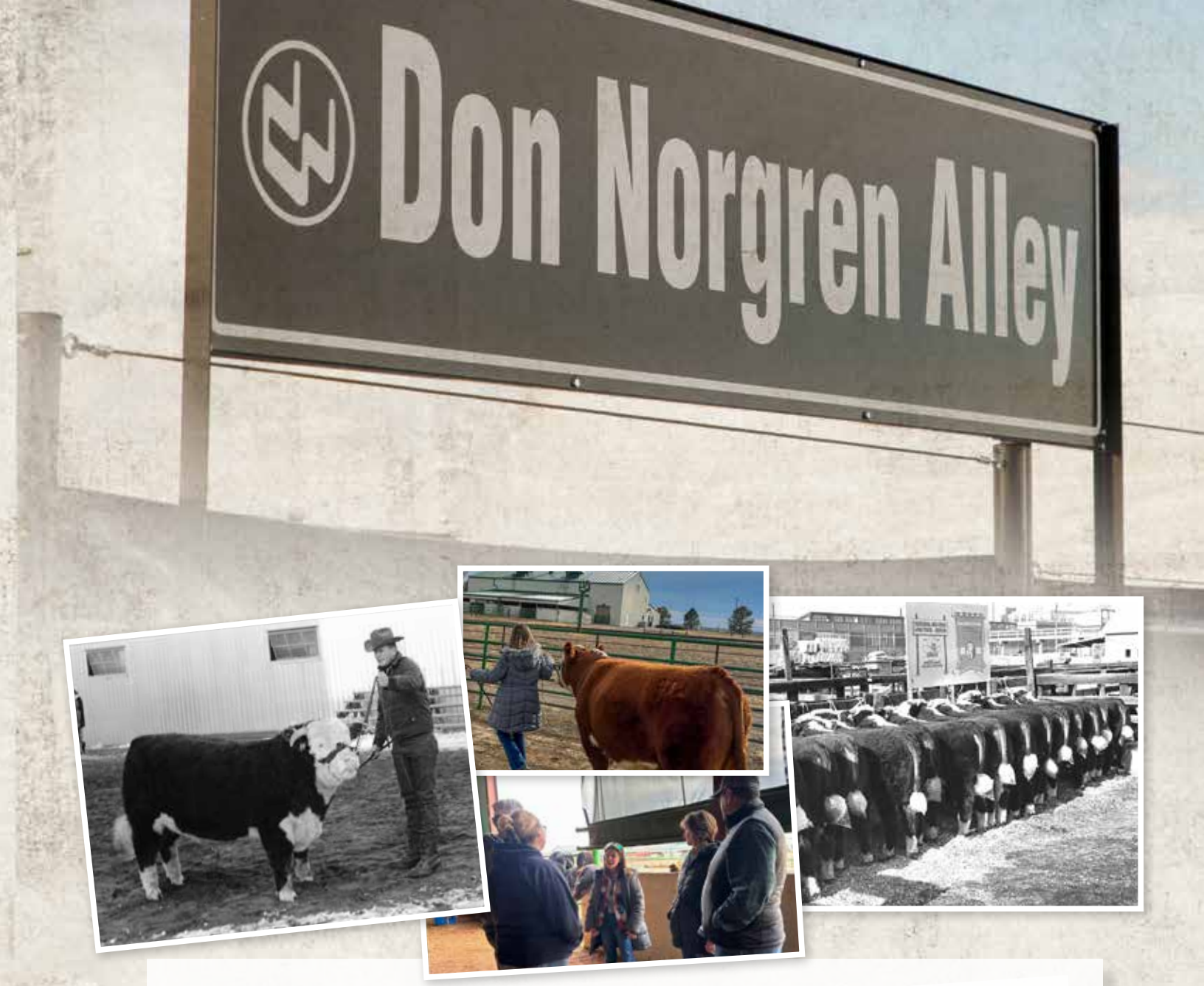
Definitions:

*Repeatable or Repeatability percent is a term used to give strength to a given PAP score predicting that if a PAP retest was carried out later in life, then the score would be close to or within the same category as the original measurement. For example, a PAP measurement taken below 4000 feet only has a 40% repeatable percent meaning that a repeat test only has a 40% chance of staying within the same risk category as the original test.

*Predictive Value—this term is closely related to repeatability percent but specifically says that the original score can accurately predict what that animal will retest in a higher elevation.

*Risk—Defined as the likelihood of an animal developing pulmonary hypertension themselves or being at risk for having a genetic predisposition for the disease

The ARDEC bull facility lies at an elevation of 5213 feet which puts the repeatability and accuracy of the PAP test in the 70-75% accuracy level meaning that those bulls testing above 50mmHG should be purchased for use in elevations below 5213 feet. The above chart can be utilized as a guideline for purchasing a PAP tested bull for use at your home ranch elevation and what number you should consider. It is always a good idea to have the animal retested at some point after the bull is at the home ranch for greater than 4 weeks.



The Norgren Family has supported the CSU Hereford herd and Seedstock Merchandising Team since 2008.

Don loved Herefords and CSU and was proud to support their ventures. He took great pride in visiting with the faculty working with the herd and the team, offering sound Hereford advice and looking at their herd. Even after his passing in 2020, the Norgren Family has continued his involvement with the herd and the Seedstock Team.

The CSU Seedstock Merchandising Team appreciates the continued support of the Norgren Family. We were fortunate to host them at ARDEC fall 2022 to update them on the current herd, as well as the team's activities. It has been a pleasure to work with them to continue Don's legacy.

AMERICAN ANGUS ASSOCIATION SELECTION TOOLS

Expected Progeny Difference (EPD), is the prediction of how future progeny of each animal 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. Interim EPDs may appear on young animals when their performance has yet to be incorporated into the American Angus Association National Cattle Evaluation (NCE) procedures. This EPD will be preceded by an "I", and may or may not include the animal's own performance record for a particular trait, depending on its availability, appropriate contemporary grouping, or data edits needed for NCE.

Accuracy (ACC), is the reliability that can be placed on the EPD. Accuracy will range from 0 to 1 with an accuracy closer to 1.0 indicating higher reliability. Accuracy is impacted by the amount of information that is included in the analysis including individual genotype and performance records as well as number of progeny and ancestral records.

PRODUCTION

Calving Ease Direct (CED), expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers. It predicts the average difference in ease with which a sire's calves will be born when he is bred to first-calf heifers.

Birth Weight (BW), expressed in pounds, is a predictor of a sire's ability to transmit birth weight to his progeny compared to that of other sires.

Weaning Weight (WW), expressed in pounds, is a predictor of a sire's ability to transmit weaning growth to his progeny compared to that of other sires.

Yearling Weight (YW), expressed in pounds, is a predictor of a sire's ability to transmit yearling growth to his progeny compared to that of other sires.

Residual Average Daily Gain (RADG), feed efficiency expressed in pounds per day, is a predictor of a sire's genetic ability for post-weaning gain in future progeny compared to that of other sires, given a constant amount of feed consumed.

Dry Matter Intake (DMI), expressed in pounds per day, is a predictor of difference in transmitting ability for feed intake during the post-weaning phase, compared to that of other sires.

Yearling Height (YH), expressed in inches, is a predictor of a sire's ability to transmit yearling height compared to that of other sires.

Scrotal Circumference (SC), expressed in centimeters, is a predictor of the difference in transmitting scrotal size compared to that of other sires.

MANAGEMENT

Claw Set (Claw), expressed in units of claw-set score, a lower EPD is more favorable, indicating a sire will produce progeny with more symmetrical, even and appropriately spaced toes compared to another sire.

Foot Angle (Angle), expressed in units of foot-angle score, a lower EPD is more favorable, indicating a sire will produce progeny with an angle closer to 45 degrees at the pastern and appropriate toe length and heel depth compared to another sire.

Docility (DOC), expressed as a difference in yearling cattle temperament, with a higher value indicating more favorable docility in a sire's offspring compared to another sire.

Pulmonary Arterial Pressure EPD (PAP), expressed in millimeters of Mercury (mmHg), with a lower EPD being more favorable indicating a sire should produce progeny with a lower PAP score to decrease the risk of progeny contracting high altitude disease most commonly experienced at 5,500 ft or greater in elevation.

Hair Shed EPD (HS), expressed in units of hair shed score, with a lower EPD being more favorable. This indicates a sire should produce progeny who shed their winter coat earlier in the spring and has improved environmental adaptability in heat stressed areas and grazing endophyte-infected (hot) fescue.

MATERNAL

Heifer Pregnancy (HP), is a selection tool to increase the probability or chance of a sire's daughters becoming pregnant as first-calf heifers during a normal breeding season. A higher EPD is the more favorable direction, and the EPD is reported in percentage units.

Calving Ease Maternal (CEM), expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf daughters. It predicts the average ease with which a sire's daughters will calve as first-calf heifers when compared to daughters of other sires.

Maternal Milk (Milk), expressed in pounds of calf weaned, is a predictor of a sire's genetic merit for milk and mothering ability in his daughters. In other words, it is the part of the calf's weaning weight attributes to milk and mothering ability.

Mature Weight (MW), expressed in pounds, is a predictor of the difference in mature weight of daughters of a sire compared to the daughters of other sires.

Mature Height (MH), expressed in inches, is a predictor of the difference in mature height of a sire's daughters compared to daughters of other sires.

CARCASS

Carcass Weight (CW), expressed in pounds, is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

Marbling (Marb), expressed as a fraction of the difference in USDA marbling score of a sire's progeny compared to progeny of other sires.

Ribeye Area (RE), expressed in square inches, is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires.

Fat Thickness EPD (Fat), expressed in inches, is a predictor of the differences in external fat thickness at the 12th rib (as measured between the 12th and 13th ribs) of a sire's progeny compared to progeny of other sires.

$VALUE INDEXES

$Value Indexes, expressed in dollars per head, are multi-trait selection indexes where a higher value suggests more profit. The $Value is an estimate of how future progeny of each sire are expected to perform, on average, compared to progeny of other sires if sires were randomly mated to cows and if calves were exposed to the same environment.

Maternal Weaned Calf Value ($M), expressed in dollars per head, predicts profitability differences in progeny due to genetics from conception to weaning by decreasing mature cow size and improving docility, foot structure and fertility while maintaining weaning weights consistent with today's production.

Weaned Calf Value ($W), expressed in dollars per head, provides the expected difference in future progeny pre-weaning performance from birth to weaning.

Energy Value ($EN), expressed in dollar savings per cow per year with a larger value being more favorable. It assesses differences in cow energy requirements, due to maternal milk and mature cow size.

Feedlot Value ($F), expressed in dollars per head, is the expected average difference in future progeny performance for post-weaning feedlot merit (growth and feed efficiency) compared to progeny of other sires assuming producers retain ownership of cattle through the feedlot phase and sell on a carcass-weight basis.

Grid Value ($G), expressed in dollars per carcass, is the expected average difference in future progeny performance for carcass grid merit, including quality and yield grade attributes, compared to progeny of other sires.

Beef Value ($B), expressed in dollars per carcass, represents the expected average differences in the progeny post-weaning performance and carcass value compared to progeny of other sires. This index assumes commercial producers wean all male and female progeny, retain ownership of these animals through the feedlot and sell on a carcass merit grid.

**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.

Driving the science of better breeding

There's little room for error in the cattle business. Producers need the most advanced information to make smart selection decisions, and Angus Genetics Inc. (AGI) provides it through genomic-enhanced expected progeny differences (GE-EPDs).

GE-EPDs have become the industry standard for herd improvement, building on decades of science-backed genetic evaluation tools originated and maintained through the American Angus Association®, home to the largest and ever-growing single-breed beef cattle database.

EPDs that traditionally contained all pedigree, performance and progeny information now also include results from available genomic, or DNA, tests. Breeders who use genomic technology give buyers access to AGI-generated GE-EPDs that provide:

Increased predictability and decreased risk for young and unproven animals due to enhanced accuracy of EPDs

Better characterization of genetics for difficult-to-measure performance traits (such as carcass traits, maternal traits and feed efficiency)

The ability to make more rapid progress for traits that are important to you, due to:

- more accurate selection
- easier identification of genetic outliers
- the ability to propagate young animals with confidence earlier in their lives

In fact, GE-EPDs on unproven animals have the same amount of accuracy as if they have recorded an average of 15 progeny, depending on the trait. That's valuable insight, offered regularly through the breed's weekly national cattle evaluation.

TRAIT	PROGENY EQUIVALENT	TRAIT	PROGENY EQUIVALENT
Calving Ease Direct	25	Pulmonary Arterial Pressure	17
Calving Ease Maternal	19	Hair Shed Score	8
Birth Weight	23	Heifer Pregnancy	17
Weaning Weight	27	Maternal Milk	35
Yearling Weight	22	Mature Weight	14
Yearling Height	15	Mature Height	9
Dry Matter Intake	11	Carcass Weight	14
Scrotal Circumfrence	13	Marbling Score	10
Docility	11	Ribeye Area	16
Foot Claw Set	13	Backfat Thickness	13
Foot Angle	13		

How do you know if EPDs are genomic-enhanced?

Ask your breeder, refer to the registration paper, or look for the AGI GE-EPD logo, Angus GS™ powered by partner Neogen or the HD50k by partner Zoetis. These images indicate animals for which genomic testing has been conducted and incorporated by AGI into GE-EPDs

AGI GE-EPD

ANGUS GS Powered by NEOGEN®

HD 50K

www.angus.org

– Angus –

4102 Csu Ram 4102

Reg: 21448420 Tattoo: 4102 DOB: 04/20/24 BULL

Circle L Gus	S Chisum 6175	ACT. BW
Csu Gus Ram 2102	Circle L PRIDE X097	
Csu MS Rangefinder Ram 0109	RAML Rangefinder 7536	ADJ. WW
	C S U Miss Z135	639
EF Complement 8088	Basin Franchise P142	ADJ. YW
CSU Complement Miss 7109	EF Everelda Entense 6117	1164
CSU Miss C114	Boyd New Day 8005	PAP
	CSU MS Ram Nation 7101	40

	CED	BW	WW	YW	CEM	MILK
	8	2	66	118	14	25
%	35	70	60	55	5	60
	MW	MARB	RE	$W	$B	$C
	51	0.54	0.58	61	152	267
%	75	70	65	60	55	50

***Parental average EPDs. We will have updated EPDs at/before time of sale.** We are really excited about this one. If you're looking for a bull with real potential and undeniable appeal, this is the kind that deserves your attention. He's long-bodied without sacrificing depth of body or outward rib shape. That eye-catching shape is the kind that looks right in the pasture today and shows up again in a standout 2027 calf crop. He offers both look and longevity. Raised at CSU-ARDEC, he's been developed in a program that emphasizes function and real-world performance, making him a bull that's as practical as he is impressive.*

4102

4103 Csu K 611 Ram 4103

HDSOK

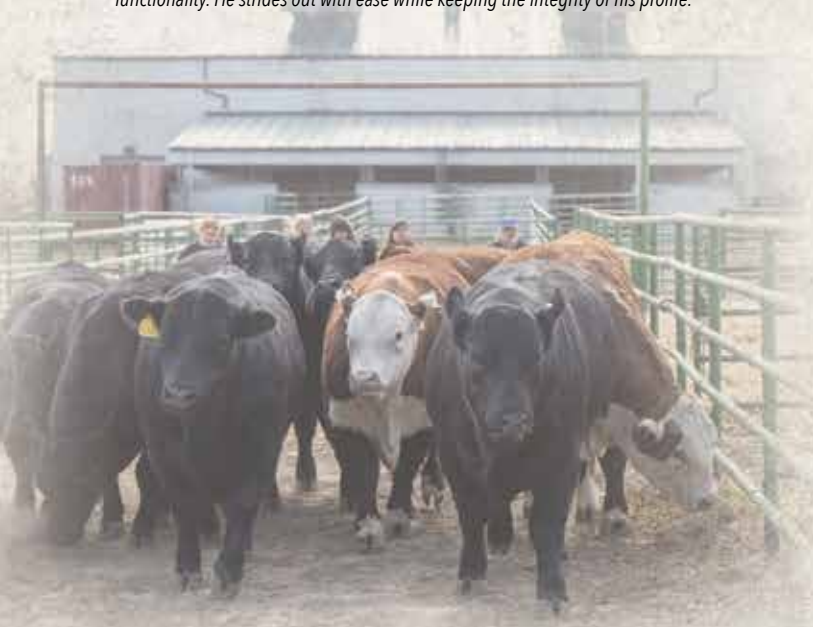
Reg: 21438142 Tattoo: 4103 DOB: 04/26/24 BULL

SAT Wolverine 916	Tehama Tahoe B767	ACT. BW
Csu Wolverine Ram K611	SAT Prairie 788	105
CSU Miss D106	EF Complement 8088	ADJ. WW
	CSU Miss B133	702
G A R Xceptional	A A R Ten X 7008 S A	ADJ. YW
Csu Miss Xcept Ram 0106	G A R Daybreak A3010	1230
C S U Miss Z101	S A V Final Answer 0035	PAP
	Csu X101	37

	CED	BW	WW	YW	CEM	MILK
	7	3.5	69	123	8	28
%	45	90	50	50	55	40
	MW	MARB	RE	$W	$B	$C
		0.78	0.59	54	157	282
%		45	65	75	45	40

He offers an extended, balanced profile that supports growth, efficiency, and overall functionality. He strides out with ease while keeping the integrity of his profile.

4103



4104 Csu RAM 4104

HDSOK

Reg: 21438143 Tattoo: 4104 DOB: 04/27/24 BULL

SAT Wolverine 916	Tehama Tahoe B767	ACT. BW
Csu Wolverine Ram K611	SAT Prairie 788	65
CSU Miss D106	EF Complement 8088	ADJ. WW
	CSU Miss B133	698
McIntosh Moose	Connealy Confidence 0100	ADJ. YW
Csu Miss Moose 1115	McIntosh Regis Lady 21D	1180
C S U Miss Z114	S A V Final Answer 0035	PAP
	CSU Miss Ram Time 3107	36

	CED	BW	WW	YW	CEM	MILK
	13	-3.6	59	98	11	33
%	10	1	80	85	25	15
	MW	MARB	RE	$W	$B	$C
	32	0.5	0.48	71	133	258
%	90	75	80	40	75	60

This thick topped bull brings plenty of dimension and substance from end to end. He handles the fundamentals well and is balanced and functional. 4104 is a versatile option that should fit across a wide range of programs. He should do well at elevation with a PAP score of 36. He could also be a great options for heifers.

M589 Csu True Grit M589

HD50K

Reg: 21449007 Tattoo: M589 DOB: 03/15/24 BULL

Square B True North 8052	S A V Rainfall 6846	ACT. BW
Basin True Grit 1021	Elbanna of Conanga 1209	68
Basin Camilla 9044	Basin Rainmaker 4404	ADJ. WW
	Basin Camilla 7026	574
G A R Xceptional	A A R Ten X 7008 S A	ADJ. YW
Csu Xcept Miss 0242H	G A R Daybreak A3010	1091
CSU MS Power One 8141	Connealy Power One	PAP
	C S U Ms Momentum 2156	44

	CED	BW	WW	YW	CEM	MILK
	14	-2.6	56	103	13	31
%	4	2	85	80	10	20
	MW	MARB	RE	$W	$B	$C
		0.93	0.67	58	153	255
%		35	55	65	50	60

This True Grit son is extremely thick and stout made. He is bold ribbed and wide topped. He should work well on heifers, ranking in the top 4% for CED and top 2% BW. If you want power and deep capacity, look no further as this bull will sire progeny that will pack a punch. Raised at CSU - BIC..

M589

M669 Csu True Grit M669

HD50K

Reg: 21449006 Tattoo: M669 DOB: 03/19/24 BULL

Square B True North 8052	S A V Rainfall 6846	ACT. BW
Basin True Grit 1021	Elbanna of Conanga 1209	72
Basin Camilla 9044	Basin Rainmaker 4404	ADJ. WW
	Basin Camilla 7026	648
McIntosh Moose	Connealy Confidence 0100	ADJ. YW
Csu Miss Moose Ram J1854	McIntosh Regis Lady 21D	1133
CSU Miss A138	Hoover Dam	PAP
	CSU Miss Sonny 3147	42

	CED	BW	WW	YW	CEM	MILK
	10	-1.1	70	121	11	30
%	20	10	50	50	25	25
	MW	MARB	RE	$W	$B	$C
		0.92	0.88	71	177	299
%		35	30	40	25	25

This Angus bull comes with all of the capacity and power. He's big ribbed, stout made, and offers a heavy-muscled, wide-based look that commercial cattlemen should appreciate. His maternal numbers suggest he's a promising heifer bull. He is built to add pounds and shape with the kind of mass that shows up on the rail and on the scale, while also adding some dollars to your paycheck ranking in the top 25% in $F, $B, and $C. Raised at CSU - BIC.

M669

M726 CSU Gus M726

Reg: PENDING Tattoo: M726 DOB: 03/24/24 BULL

S Chisum 6175	S Alliance 3313	ACT. BW
Circle L Gus	S Gloria 464	77
Circle L PRIDE X097	HARB Pendleton 765 J H	ADJ. WW
	Circle L Pride 38T	527
Stevenson Rockmount RX933	MCC Daybreak	ADJ. YW
CSU Miss D139	FSHK Pride 180	1009
CSU Miss B1013	Connealy Thunder	PAP
	C S U Miss Z101	47

	CED	BW	WW	YW	CEM	MILK
	14	-2.6	59	103	15	28
%	4	2	80	80	3	40
	MW	MARB	RE	$W	$B	$C
	35	0.63	0.57	61	142	255
%	90	60	70	60	65	60

***Parental average EPDs. We will have updated EPDs at/before time of sale.** Muscular with round, outward rib shape, and an expressive hindquarter, this bull brings real shape and power in a rugged ready-to-go-to-work look. Balanced in his design and athletic on the move, he offers the kind of genuine muscle and performance look that translates from the pen to the pasture–an excellent option for programs that value muscle and power. Raised at CSU - BIC.*

M729 Csu Moose M729

HD50K

Reg: 21437351 Tattoo: M729 DOB: 03/24/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	77
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	498
S A V Resource 1441	Rito 707 of Ideal 3407 7075	ADJ. YW
CSU Miss D130	S A V Blackcap May 4136	919
CSU MS Top Cut 8114	Three Trees Prime Cut 0145	PAP
	CSU Miss Ram Spirit 4120	35

	CED	BW	WW	YW	CEM	MILK
	9	-0.3	52	94	7	23
%	30	20	90	90	65	75
	MW	MARB	RE	$W	$B	$C
	39	0.25	0.45	45	109	214
%	85	95	80	90	95	90

This bull brings added body shape and dimension with a rugged, big-bodied look that stands out in the pen. He is massive through his middle and eye-catching from the side; he profiles as well as any bull in the offering. His combination of capacity and balance gives producers more options for success across a variety of environments. With a measured PAP of 35 he should perform well in high elevations. Coupled with his BW (top 20%) and DMI (top 20%) he supports practical use and efficiency. Add in top 10% for $EN, and you have a versatile bull built to work and last. Raised at CSU - BIC.

M745

Csu Ram M745

Reg: PENDING Tattoo: M745 DOB: 03/29/24 BULL

Connealy Confidence 0100		Connealy Tobin	ACT. BW
McIntosh Moose		Becka Gala of Conanga 8281	80
McIntosh Regis Lady 21D		Coleman Regis 904	ADJ. WW
		McIntosh Lady Weigh Up 491	595
Stevenson Rockmount RX933		MCC Daybreak	ADJ. YW
CSU Miss D112		FSHK Pride 180	1073
CSU Miss B108		Hoover Dam	PAP
		C S U Miss Z106	36

	CED	BW	WW	YW	CEM	MILK
	6	1.2	65	107	10	24
%	55	50	60	75	30	65
	MW	MARB	RE	$W	$B	$C
	35	0.56	0.54	67	147	272
%	90	70	70	50	60	45

*** Parental average EPDs. We will have updated EPDs at/before time of sale. ** This bull has been a standout in the bull pen from day one. He is long-bodied, yet still yields a ton of capacity. This bull is docile and is able to put all of his parts and pieces together in a neat package that hits you hard when you walk into the pen. Don't overlook his 36 PAP!*

M745

M765

Csu Moose M765

HD50K

Reg: 21427946 Tattoo: M765 DOB: 04/03/24 BULL

Connealy Confidence 0100		Connealy Tobin	ACT. BW
McIntosh Moose		Becka Gala of Conanga 8281	62
McIntosh Regis Lady 21D		Coleman Regis 904	ADJ. WW
		McIntosh Lady Weigh Up 491	492
MF Eagle Eye 51		BC Eagle Eye 110-7	ADJ. YW
CSU 51 Miss 7145		MF Cherry 64	964
CSU Sun Rise 7143		Boyd New Day 8005	PAP
		CSU Ram New Level 5141	38

	CED	BW	WW	YW	CEM	MILK
	10	-0.7	49	77	10	23
%	20	15	95	95	30	75
	MW	MARB	RE	$W	$B	$C
	28	0.34	0.5	47	111	217
%	95	90	75	85	95	90

This bull is the kind that sells himself once you see him. His overall look draws you in and his data profile that keeps you there. His standout CED (top 20%) paired with a sensible BW (top 15%) makes him a smart, low-risk choice for heifers without giving up power. A moderate DMI (top 4%) points toward efficiency, while a dependable PAP (top 15%) adds confidence for higher-elevation or tougher environments. His FL (top 15%) supports long-term soundness, and a solid $EN (top 10%) rounds out a balanced, functional package. He's attractive, usable, and built to work, exactly the kind buyers come looking for. Raised at CSU - BIC.

M773

Csu Moose M773

HD50K

Reg: 21427947 Tattoo: M773 DOB: 04/03/24 BULL

Connealy Confidence 0100		Connealy Tobin	ACT. BW
McIntosh Moose		Becka Gala of Conanga 8281	62
McIntosh Regis Lady 21D		Coleman Regis 904	ADJ. WW
		McIntosh Lady Weigh Up 491	581
MCC Payweight 6033		Basin Payweight 1682	ADJ. YW
Csu 6033 Miss 8162		MCC SuperMama 9008	1071
CSU Miss Josephine C108		EF Complement 8088	PAP
		CSU Miss A156	39

	CED	BW	WW	YW	CEM	MILK
	14	-2.2	60	101	13	30
%	4	3	75	85	10	25
	MW	MARB	RE	$W	$B	$C
	26	0.5	0.73	68	129	246
%	95	75	50	45	80	70

We love the functionality and sheer quality this bull offers and he is often the topic of discussion at our weekend team breakfasts. First and foremost, he ranks in the 20% for PAP EPD and his progeny should do well at higher elevations. He also has a 39 PAP score and should do well to breed cows at higher elevations. Ranking in the top 4% and 3%, respectively for CED and BW, you can trust him with your heifers. He also ranks in the top 10% for CEM and top 25% for MILK proving his capabilities to sire a fine group of daughters. Bottom line – make daughters out of this bull. Raised at CSU - BIC.

M773

M804 Csu Moose M804

Reg: 21427948 Tattoo: M804 DOB: 04/09/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	75
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	598
EF Complement 8088	Basin Franchise P142	ADJ. YW
CSU Miss D106	EF Everelda Entense 6117	1041
CSU Miss B133	Connealy Consensus 7229	PAP
	CSU MS Navigator 8110	37

	CED	BW	WW	YW	CEM	MILK
	10	0.3	63	106	12	29
%	20	30	70	75	15	30
	MW	MARB	RE	$W	$B	$C
	32	0.57	0.56	66	140	257
%	90	70	70	50	70	60

A long-bodied, smooth-sided bull that offers a clean, extended profile and an efficient look. His added length of design and overall balance supports performance while maintaining a functional build suited for longevity. A sustainable CED EPD ranking in the top 20% brings confidence for calving season, while a DMI in the top 10% points toward efficiency. His PAP EPD in the top 15% adds adaptability for elevation-minded programs. A balanced, practical bull that combines calving ease, efficiency, and sound design in a smooth, attractive package. Raised at CSU - BIC.

M832 Csu Moose M832

Reg: 21427950 Tattoo: M832 DOB: 04/10/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	88
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	593
SD Advantage 6019	Sitz Advantage 869	ADJ. YW
Csu Miss Advantage J1754	SD Lucy 4021	1047
Csu Substantial Miss 8111	Mohnen Substantial 272	PAP
	CSU Miss D110	40

	CED	BW	WW	YW	CEM	MILK
	2	2.6	67	115	6	23
%	85	80	55	60	70	75
	MW	MARB	RE	$W	$B	$C
		0.44	0.52	52	129	248
%		80	75	80	80	70

This big-ribbed, stout Angus bull offers practical options for producers who want a functional and reliable herd sire. He should sire females that are profitable and efficient as he ranks the top 20% in $EN and $M. He is deep bodied and will get the job done, making him a bull that shouldn't be overlooked.

M831 Csu Moose M831

Reg: 21427949 Tattoo: M831 DOB: 04/10/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	80
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	573
G A R Xceptional	A A R Ten X 7008 S A	ADJ. YW
Csu Xcept Miss Ram 0255H	G A R Daybreak A3010	1063
CSU Miss A135	Connealy Consensus 7229	PAP
	Csu X109	37

	CED	BW	WW	YW	CEM	MILK
	8	0.8	66	113	9	27
%	35	40	60	65	40	45
	MW	MARB	RE	$W	$B	$C
		0.67	0.86	61	156	281
%		60	35	60	50	40

Now here's a bull that is big-bodied, bold-ribbed bull with impressive length and extension that demands a second look. His added body and presence give him a powerful, eye-catching profile that stands out in the offering. He puts all of his parts and pieces in a neat package and would be a great addition to your herd. Raised at CSU - BIC.

M849 Csu Moose M849

Reg: 21427951 Tattoo: M849 DOB: 04/13/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	81
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	588
RAML Rangefinder 7536	GDAR Leupold 298	ADJ. YW
Csu RF Miss Ram 0305H	RAML Royce 536	1007
CSU Miss B137	Connealy Consensus 7229	PAP
	CSU Miss Sonny 3147	36

	CED	BW	WW	YW	CEM	MILK
	6	1.9	67	109	8	25
%	55	65	55	70	55	60
	MW	MARB	RE	$W	$B	$C
	47	0.43	0.86	62	134	258
%	80	80	35	60	75	60

This bull is broad topped, big hipped, and has loads of capacity. Not to mention he has a PAP score that should work well at any elevation. He brings function for the real world. Coupled with his top 20% in FL, he should sire cattle that will stay productive in your herd for many years. This stout bull is economically smart with his $EN (top 25%) and $M (top 15%). Raised at CSU - BIC.

M869

Csu Moose M869

HOSOK

Reg: 21427952 Tattoo: M869 DOB: 04/17/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	71
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	512
S A V Final Answer 0035	Sitz Traveler 8180	ADJ. YW
CSU Miss A114	S A V Emulous 8145	955
CSU Miss Ram Power 5110	K G Power Design	PAP
	C S U Miss Transition 8164	40

	CED	BW	WW	YW	CEM	MILK
	14	-1.7	47	76	9	21
%	4	5	95	95	40	85
	MW	MARB	RE	$W	$B	$C
	22	0.62	0.37	43	108	225
%	95	65	90	90	95	85

Get your bills paid year after year with this one! He would be a great option for heifers ranking in the top 4% CED and top 5% low BW. He is correct in his lines and would be hard to give up. Let's not forget his $EN (4%), PAP (15%) and DMI (15%) figures for added feed efficiency and profits. Raised at CSU - BIC

M874

Csu Moose M874

HOSOK

Reg: 21427954 Tattoo: M874 DOB: 04/18/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	84
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	524
Hoover Dam	SydGen C C & 7	ADJ. YW
CSU Miss A138	Erica of Ellston C124	970
CSU Miss Sonny 3147	Schiefelbein Lubick 2220	PAP
	C S U Miss Emulation 8134	38

	CED	BW	WW	YW	CEM	MILK
	4	1.6	52	96	7	26
%	70	60	90	90	65	50
	MW	MARB	RE	$W	$B	$C
	26	0.26	0.75	45	125	230
%	95	95	45	90	85	80

M874 brings a fresh, attractive look with a neck and shoulder as neat as any in the offering. From the side, he shows impressive muscle shape and natural expression behind. A balanced DMI (top 15%) supports efficiency, while a top 20% PAP EPD tells us progeny should do well at high elevation. He ranks in top 10% for $EN, he offers durability and longevity to match his clean design. A smooth, functional bull that combines look, muscle, and practicality in one attractive package. Raised at CSU - BIC.

M871

Csu Moose M871

HOSOK

Reg: 21427953 Tattoo: M871 DOB: 04/18/24 BULL

Connealy Confidence 0100	Connealy Tobin	ACT. BW
McIntosh Moose	Becka Gala of Conanga 8281	80
McIntosh Regis Lady 21D	Coleman Regis 904	ADJ. WW
	McIntosh Lady Weigh Up 491	580
LCoC New Standard G008B	LCC New Standard	ADJ. YW
Csu G008B Miss 7152	LCOC Lakina PG080	1034
CSU Miss C130	MF Net Return 8197	PAP
	Csu 9118	39

	CED	BW	WW	YW	CEM	MILK
	3	2.5	65	113	4	29
%	75	80	60	65	85	30
	MW	MARB	RE	$W	$B	$C
	43	0.35	0.4	60	123	234
%	85	90	85	65	85	80

His body shape and dimension signal efficiency, durability, and the ability to thrive in demanding production environments. Raised at CSU - BIC.

M874

– Sale Schedule–

February 20 –

2 to 4 pm preview sale cattle at CSU-ARDEC

February 21 –

7:30 a.m. coffee and breakfast

8 a.m. Cattle Chat with Industry Leaders

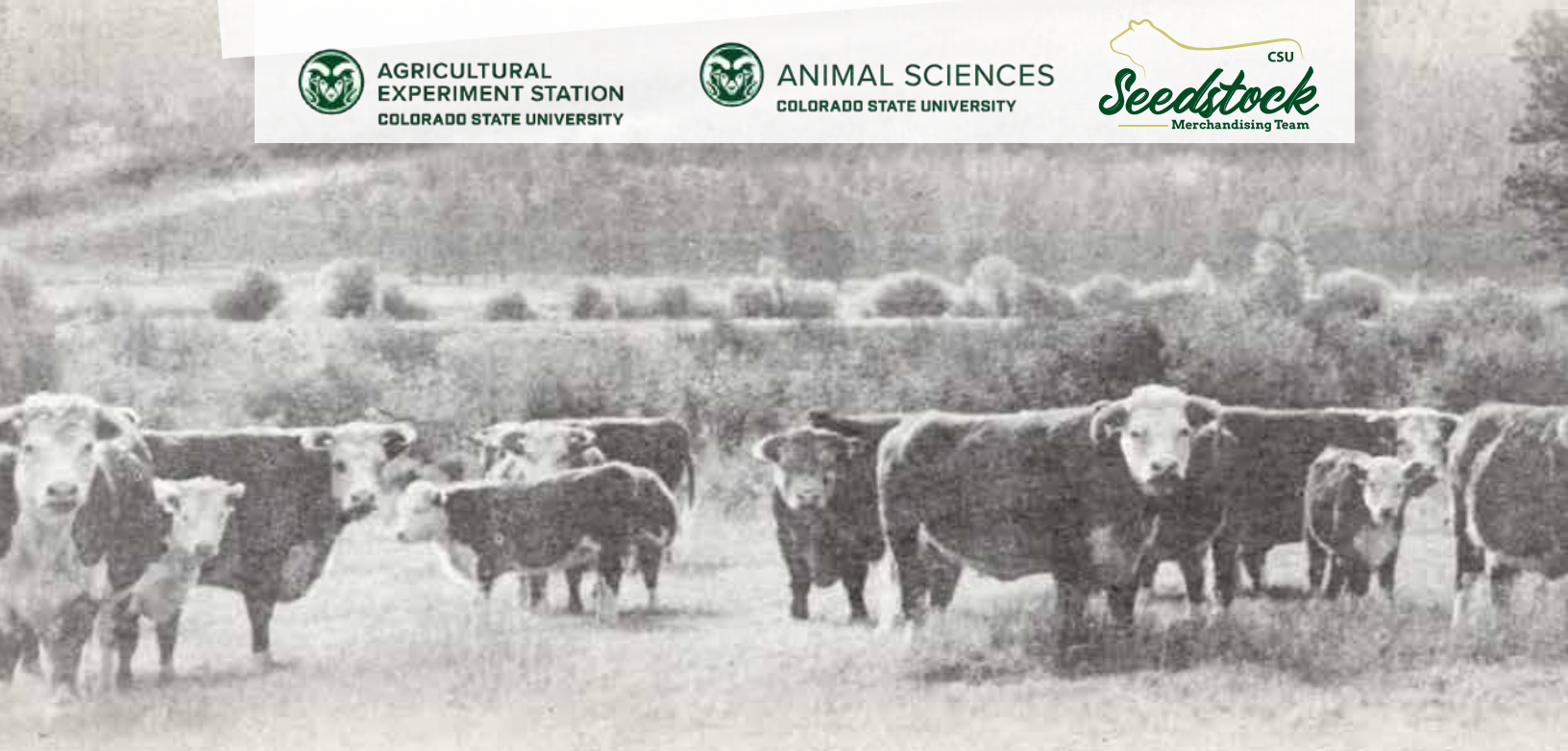
9 a.m. Sale Cattle Preview & Industry Connection

11 a.m. 49th Annual CSU Bull and Female Sale

AGRICULTURAL EXPERIMENT STATION
COLORADO STATE UNIVERSITY

ANIMAL SCIENCES
COLORADO STATE UNIVERSITY

CSU Seedstock Merchandising Team



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Understanding Hereford EPDs

The American Hereford Association (AHA) currently produces expected progeny differences (EPDs) for 17 traits and calculates three profit ($) indexes. AHA's genetic evaluation makes use of a Marker Effects Model that allows the calculation of EPDs by incorporating the pedigree, phenotypic and genomic profile of an animal. Animals that have a genomic profile will be denoted with a GE-EPD logo.

The current suite of Hereford EPDs and $ indexes includes:

Calving Ease — Direct (CE)
CE EPD is based on calving ease scores and birth weights and is measured on a percentage. CE EPD indicates the influence of the sire on calving ease in females calving at 2 years of age. For example, if sire A has a CE EPD of 6 and sire B has a CE EPD of -2, then you would expect on average if comparably mated, sire A's calves would be born with an 8% more likely chance of being unassisted when compared to sire B's calves.

Birth Weight (BW)
BW EPD is an indicator trait for calving ease and is measured in pounds. For example, if sire A has a BW EPD of 3.6 and sire B has a BW EPD of 0.6, then you would expect on average if comparably mated, sire A's calves would come 3 lb. heavier at birth when compared to sire B's calves. Larger BW EPDs usually, but not always, indicate more calving difficulty. The figure in parentheses found after each EPD is an accuracy value or reliability of the EPD.

Weaning Weight (WW)
WW EPD is an estimate of pre-weaning growth that is measured in pounds. For example, if sire A has a WW EPD of 60 and sire B has a WW EPD of 40, then you would expect on average if comparably mated, sire A's calves would weigh 20 lb. heavier at weaning when compared to sire B's calves.

Yearling Weight (YW)
YW EPD is an estimate of post-weaning growth that is measured in pounds. For example, if sire A has a YW EPD of 100 and sire B has a YW EPD of 70, then you would expect on average if comparably mated, sire A's calves would weigh 30 lb. heavier at a year of age when compared to sire B's calves.

Dry Matter Intake (DMI)
The Dry Matter Intake EPD predicts the daily consumption of pounds of feed. For example, if sire A has a DMI EPD of 1.1 and sire B has a DMI EPD of 0.1, you would expect sire B's progeny, if comparably mated, to consume on average 1 pound of feed less per day.

Scrotal Circumference (SC)
Measured in centimeters and adjusted to 365 days of age, SC EPD is the best estimate of fertility. It is related to the bull's own semen quantity and quality, and is also associated with age at puberty of sons and daughters. Larger SC EPDs suggest younger age at puberty. Yearling sons of a sire with a .7 SC EPD should have yearling scrotal circumference measurements that average 0.7 centimeters (cm) larger than progeny by a bull with an EPD of 0.0 cm.

Sustained Cow Fertility (SCF)
The AHA's new Sustained Cow Fertility EPD (SCF) is a prediction of a cow's ability to continue to calve from three years of age through twelve 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. For example, the daughters of a bull with a 30 EPD would have the genetic potential to have one more calf by age twelve then the daughters from a bull with a 20 EPD. In other words, the daughters from the 30 EPD bull would have a 10% greater probability of having one more calf than the bull with a 20 EPD. This is equivalent to saying that the daughters are 10% more likely to remain in the herd to age 12.

Maternal Milk (MM)
The milking ability of a sire's daughters is expressed in pounds of calf weaned. It predicts the difference in average weaning weights of sires' daughters' progeny due to milking ability. Daughters of the sire with a +14 MM EPD should produce progeny with 205-day weights averaging 24 lb. more (as a result of greater milk production) than daughters of a bull with a MM EPD of -10 lb. (14 minus -10.0 = 24 lb.). This difference in weaning weight is due to total milk production during the entire lactation.

Maternal Milk & Growth (M&G)
Maternal Milk & Growth reflects what the sire is expected to transmit to his daughters for a combination of growth genetics through weaning and genetics for milking ability. It is an estimate of daughters' progeny weaning weight. A bull with a 29 lb. M&G EPD should sire daughters with progeny weaning weights averaging 19 lb. heavier than progeny of a bull's daughters with a M&G EPD of 10 lb. (29 minus 10 = 19 lb.). It is equal to one-half the sire's weaning weight EPD, plus all of his MM EPD. No accuracy is associated with this since it is simply a mathematical combination of two other EPDs. It is sometimes referred to as "total maternal" or "combined maternal."

Maternal Calving Ease (MCE)
MCE EPD predicts how easily a sires daughters will calve at 2 years of age and is measured on a percentage. For example, if sire A has a MCE EPD of 7 and sire B has a CE EPD of -3, then you would expect on average if comparably mated, sire A's daughters would calve with a 10% more likely chance of being unassisted when compared to sire B's daughters.

Mature Cow Weight (MCW)
The MCW EPD was designed to help breeders select sires that will either increase or decrease mature size of cows in the herd. The trait was developed after years of cow weight data collection and the EPD relates directly to the maintenance requirements of a cow herd. For example, if sire A has a MCW EPD of 100 and sire B has an EPD of 85, then you would expect the females of sire A, if mated to similar cows, to be 15 lb. heavier at mature size.

Udder Suspension (UDDR)
UDDR EPDs are reported on a 9 (very tight) to 1 (very pendulous) scoring scale. Differences in sire EPDs predict the difference expected in the sires' daughters' udder characteristics when managed in the same environment. For example, if sire A has a UDDR EPD of 0.4, and sire B has a UDDR EPD of -0.1, the difference in the values is 0.5, or one-half of a score. If daughters of sires A and B are raised and managed in the same environment, you would expect half a score better udder suspension in daughters of sire A, compared to sire B.

Teat Size (TEAT)
TEAT EPDs are reported on a 9 (very small) to 1 (very large, balloon shaped) scoring scale. Differences in sire EPDs predict the difference expected in the sires' daughters' udder characteristics when managed in the same environment. For example, if sire A has a teat size EPD of 0.4, and sire B has a teat size EPD of -0.1, the difference in the values is 0.5, or one-half of a score. If daughters of sires A and B are raised and managed in the same environment, you would expect half a score smaller teat size in daughters of sire A, compared to sire B.

Carcass Weight (CW)
Carcass weight is a beneficial trait when considering the impact that pounds have relative to end product value. At the same age constant endpoint, sires with higher values for carcass weight will add more pounds of hot carcass weight compared to sires with lower values for carcass weight. For example, if sire A has a CW EPD of 84 and sire B has a CW EPD 64, then you would expect the progeny of sire A, if harvested at the same age constant endpoint, to have a 20-lb. advantage in terms of hot carcass weight.

Rib Fat (FAT)
The FAT EPD reflects differences in adjusted 365-day, 12th-rib fat thickness based on carcass measurements of harvested cattle. Sires with low, or negative FAT EPDs are expected to produce leaner progeny than sires with higher EPDs. Ultrasound measures are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Ribeye Area (REA)
REA EPDs reflect differences in an adjusted 365-day ribeye area measurement based on carcass measurements of harvested cattle. Sires with relatively higher REA EPDs are expected to produce better-muscled and higher percentage yielding slaughter progeny than will sires with lower REA EPDs. Ultrasound measurements are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Marbling (MARB)
MARB EPDs reflect differences in an adjusted 365-day marbling score (intramuscular fat, [IMF]) based on carcass measurements of harvested cattle. Breeding cattle with higher MARB EPDs should produce slaughter progeny with a higher degree of IMF and therefore higher quality grades. Ultrasound measurements are also incorporated into this trait and have been shown to be highly correlated with the performance of slaughter progeny. All data is expressed on a carcass scale.

Baldie Maternal Index (BMI$)
The Baldy Maternal Index is a maternally focused index that is based on a production system that uses Hereford x Angus cross cows. Progeny of these cows are directed towards Certified Hereford Beef. This index has significant weight on Sustained Cow Fertility, which predicts fertility and longevity of females. There is a slightly positive weight on Weaning Weight, Mature Cow Weight and Milk which accounts for enough growth but ensures females do not increase inputs. There is some negative emphasis on Dry Matter Intake, but a positive weighting on Carcass Weight which is anticipated to provide profitability from finishing of non-replacement females and castrated males. Marbling and Rib-eye Area are also positively weighted to keep the harvested progeny successful for CHB. This index is geared to identify Hereford bulls that will be profitable when used in a rotational cross with mature commercial Angus cows.

Brahman Influence Index (BII$)
The Brahman Influence Index is a maternally focused index that is based on a production system that uses Brahman x Hereford cross cows. Progeny of these cows are directed towards a commodity beef market since Certified Hereford Beef does not accept Brahman influenced cattle. This index has significant weight on Sustained Cow Fertility, which predicts fertility and longevity of females. There is a slightly positive weight on Weaning Weight, Mature Cow Weight and Milk which accounts for enough growth but ensures females do not increase inputs. There is some negative emphasis on Dry Matter Intake, but a positive weighting on Carcass Weight which is anticipated to provide profitability in finishing non-replacement females and castrated males. Marbling and Rib-eye Area are also positively weighted to keep harvested progeny successful for a variety of commodity based programs. This index targets producers that use Hereford bulls on Brahman influenced cows.

Certified Hereford Beef Index (CHB$)
The Certified Hereford Beef Index is a terminal sire index that is built on a production system where Hereford bulls are mated to mature commercial Angus cows and all progeny will be targeted for Certified Hereford Beef after the finishing phase. This index has significant weight on Carcass Weight to ensure profit on the rail. As well there is a positive weighting for Average Daily Gain along with a negative weighting on Dry Matter Intake to ensure efficient pounds of growth in the finishing phase. Keep in mind, this production system takes advantage of complimentary breeding with the commercial Angus cow. Although Marbling is weighted positively in this index, a positive weighting for Rib-eye Area and a negative weighting for Back Fat are a greater priority in this index to allow for optimum end-product merit. This is the only index that has no emphasis on fertility. Remember that no replacement heifers are being retained.

The Power of Genomically Enhanced EPDs

The American Hereford Association (AHA) has embraced the use of genomics into their genetic evaluation by launching a first of its kind single step analysis that utilizes the marker effects of specific traits. Likewise, AHA is directly estimating accuracy values rather than approximating. The direct estimation of accuracy results in a more conservative value but a more accurate value than previous methodologies. The AHA is producing the most reliable genetic evaluation that is supported by Whole Herd TPR™ and genomics, which will give prospective buyers added confidence in purchasing young and unproven animals.

Buying animals that have a genomic profile incorporated into their Expected Progeny Difference (EPD) offers many advantages that allow for quicker breed and herd improvement. Below is a table showing the average increase in accuracy when buying a young animal with a Genomic Enhanced EPD (GE-EPD) versus an animal without a GE-EPD. Similarly, an effective progeny number increase is listed by trait that shows how many progeny equate to a genomic enhancement of a young animal (e.g. yearling). That's right, buying a young animal that has been genotyped is like having 2-17 progeny, depending on the trait. The proof gained on young, non-parent animals, through a genomic enhancement is valuable and greatly mitigates the risk and allows for more directed selection.

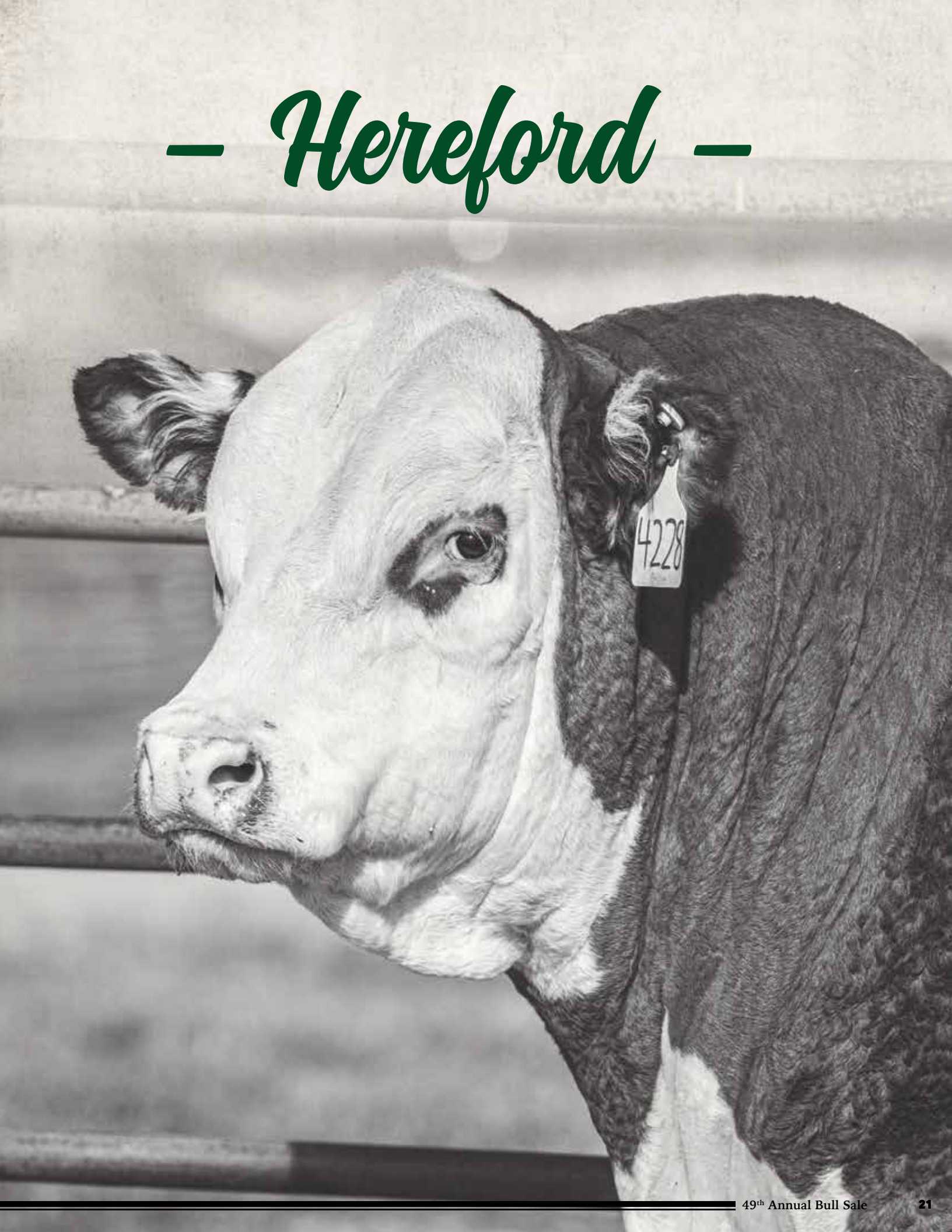
Each animal tested is recognized with the AHA GE-EPD logo.

AHA Trait	Accuracy Improvement	Effective Progeny Number Increase*
Calving Ease	0.09	17
Birth Weight	0.12	8
Weaning Weight	0.14	12
Yearling Weight	0.16	9
Scrotal Circumference	0.17	6
Mature Cow Weight	0.12	4
Udder Suspension	0.17	7
Teat Size	0.17	7
Carcass Weight	0.11	3
Fat	0.08	2
Rib-Eye Area	0.07	2
Marbling	0.10	3

* Effective Progeny Number Increase (EPNI)- EPNI is the difference gained for genotyped animals versus non-genotyped animals.

American Hereford Association

– Hereford –



4204 CSU Valor 4204

Reg: 44652081 Tattoo: 4204 DOB: 3/19/24 Homo Polled BULL

JDH Victor 719T 33Z ET	TH 122 71I Victor 719T	ACT. BW
RV Valor 9444g ET	JDH MS Yankee 11U ET	70
RV Bobbi 1404	ECR L18 Extra DEEP 9279	ADJ. WW
	HPH Miss Eptension 205 404	671
BG LCC 11B Perfecto 84F	LCX Perfecto 11B ET	ADJ. YW
CSU MS Perfecto 84F RAM 2204et	BG 100W Nicky 31C	1130
CSU Leader Miss 8266 ET	R Leader 6964	PAP
	CSU Miss A206	39

	CED	BW	WW	YW	MILK	M&G
	15.2	-1.8	59	97	29	58
%	2	3	44	37	40	44

	CEM	REA	MARB	BMI	CHB
	3.5	0.63	0.28	493	139
%	28	27	20	6	28

From one of Dr. Cunningham's favorite cow families, this stout-made Hereford bull offers a unique look combined with top-ranking EPDs. He ranks in the top 2% in CED, TEAT, and UDDER, top 3% in BWT, and top 6% BMI – this dude is here to help you make replacement females. When it's time to market his steer progeny, they should do well on the rail given his REA ranking in the top 27% and MARB ranking in the top 20%. He is also a paternal half-sib to four of our bred heifers that we showed at National Western. He is extremely level topped and big ribbed and would be a great addition to your herd.

4204

4208 CSU KING 4208

Reg: 44655781 Tattoo: 4208 DOB: 3/22/24 Polled BULL

K KING 400	NJW 73S W18 Hometown 10Y ET	ACT. BW
GO KING E33	H Karly 2515 ET	86
GO MS Sensation B3	Churchill Sensation 028X	ADJ. WW
	GO MS Revolution Z1	643
/S Mandate 66589 ET	R Leader 6964	ADJ. YW
CSU Miss Mandate RAM 2211	/S LADY Domino 0158x	
CSU Miss KID RAM 0245	KT Small TOWN KID 5051	PAP
	CSU Miss A224	38

	CED	BW	WW	YW	MILK	M&G
	9.4	0.3	64	99	36	68
%	11	11	23	32	7	7

	CEM	REA	MARB	BMI	CHB
	0.5	0.51	0.38	474	154
%	65	47	10	9	14

A docile, big-ribbed Hereford with goggles on both eyes combines look with numbers that matter. Correct in his angles, this bull stays level down a thick top while ranking in the top 11% for both CED and BWT EPDs. Not only can you put him on heifers, but his calves should also bring added dollars at weaning. If you are looking to keep females, don't overlook his maternal columns ranking in the top 14% of the breed or higher for SC, MILK, TEAT, & UDDER EPDs. This stud of a bull should also sire calves that perform better on the rail, making him a complete, balanced option for both commercial and seedstock programs. High elevations breeders–he's a great option for you with a 38 PAP.

4208

4209

CSU Harvest 4209

4209

Reg: 44653889 Tattoo: 4209 DOB: 3/23/24 Horned BULL

SHF Daybreak Y02 D287 ET	SHF YORK 19H Y02	ACT. BW
SHF Harvest D287 H033 ET	SHF Miss M326 T08 ET	85
SHF TIME 001A D81	Gerber Anodyne 001A	ADJ. WW
	SHF TIME 42X A140	627
UPS Entice 9365 ET	NJW 79Z Z311 Endure 173D ET	ADJ. YW
CSU 0225 RAM 2259	UPS Miss Sensation 2277 ET	1054
CSU Miss A224	SHF Yahoo 40W Y37	PAP
	CSU Miss RAM Dominator 8225	39

	CED	BW	WW	YW	MILK	M&G
	3.2	2.7	62	98	32	63
%	53	52	31	34	21	21

	CEM	REA	MARB	BMI	CHB
	1.6	0.61	0.26	387	136
%	51	30	23	45	32

Don't miss the chance to get in on this HORNED bull. Watching this bull come together with an undeniable width about his hip and rib has been neat. He carries a lot of natural shape that will undoubtably be seen in his future calves. Additionally, this bull has the capacity to put together some high performing daughters through a top 21% MILK and top 21% MG.

CSU HARVEST 4211

4211

Reg: 44655782 Tattoo: 4211 DOB: 3/25/24 Polled BULL

SHF DAYBREAK Y02 D287 ET	SHF YORK 19H Y02	ACT. BW
SHF HARVEST D287 H033 ET	SHF MISS M326 T08 ET	72
SHF TIME 001A D81	GERBER ANODYNE 001A	ADJ. WW
	SHF TIME 42X A140	622
/S Mandate 66589 ET	R Leader 6964	ADJ. YW
CSU Miss Mandate RAM 2214	/S LADY Domino 0158x	
CSU Miss KID RAM 0231	KT Small TOWN KID 5051	PAP
	CSU Miss B227	39

	CED	BW	WW	YW	MILK	M&G
	7.3	0.4	65	109	29	62
%	20	15	20	15	40	25

	CEM	REA	MARB	BMI	CHB
	5	0.6	0.22	401	144
%	15	30	30	35	20

***Parental Average EPDs. Will have updated EPDs on/before sale day** This stout, big-ribbed bull brings the kind of rugged build and body capacity that should hold up in real-world commercial environment. His extra dimension and depth support longevity and doability; an all-around bull that combines durability and end-product value, this is one you don't want to miss.*

CSU Valor 4214

4214

Reg: 44652098 Tattoo: 4214 DOB: 3/31/24 Homo Polled BULL

JDH Victor 719T 33Z ET	TH 122 71I Victor 719T	ACT. BW
RV Valor 9444g ET	JDH MS Yankee 11U ET	64
RV Bobbi 1404	ECR L18 Extra DEEP 9279	ADJ. WW
	HPH Miss Eptension 205 404	555
Innisfail WHR X651/723 4020 ET	Efbeef TFL U208 Tested X651 ET	ADJ. YW
CSU Miss 4020 RAM 2216	Innisfail P230 T723	1127
CSU Miss KID RAM 0235	KT Small TOWN KID 5051	PAP
	CSU Miss Dominator 8207	42

	CED	BW	WW	YW	MILK	M&G
	11.9	-2.1	60	95	18	48
%	5	3	39	43	92	85

	CEM	REA	MARB	BMI	CHB
	8.3	0.69	0.36	430	149
%	2	20	11	23	17

Coming from one of Dr. Cunningham's favorite cow families, this bull is not only phenotypically pleasing but also has the data to back it up. An eye-catching build makes him a standout for programs that value real muscle and real-world function. He's bold sprung, deep bodied, and square made, with a strong muscle shape that gives him that masculine herd-sire presence. An elite CED (top 5%) and BW (top 3%) keep him usable across a wide range of females, while an impressive REA (top 20%) and MARB (top 11%) will allow his calves to perform well on the rail. Coupled with his CHB (top 23%) he would be a great option to put on commercial cattle. Additionally, he should make some valuable heifer calves with his TEAT and UDDER both ranking in the top 1% and a top 23% BMI. This is a good-looking, functional bull for breeders who appreciate muscle, power, and dependable genetics wrapped in a package that flat works.

4214

CSU Valor 4217

4217

Reg: 44652130 Tattoo: 4217 DOB: 4/4/24 Homo Polled BULL

JDH Victor 719T 33Z ET	TH 122 71I Victor 719T	ACT. BW
RV Valor 9444g ET	JDH MS Yankee 11U ET	92
RV Bobbi 1404	ECR L18 Extra DEEP 9279	ADJ. WW
	HPH Miss Eptension 205 404	650
Efbeef BR Validated B413	Efbeef TFL U208 Tested X651 ET	ADJ. YW
CSU Miss Validated RAM 0222	Efbeef 4R Thyra Y865	1175
CSU 10Y Miss 7208 ET	NJW 73S W18 Hometown 10Y ET	PAP
	CSU Miss RAMS RULE 6213	34

	CED	BW	WW	YW	MILK	M&G
	2.9	3.3	66	108	18	51
%	56	65	17	14	92	76

	CEM	REA	MARB	BMI	CHB
	-0.6	0.88	0.41	419	180
%	77	5	8	28	3

This big hipped, powerful bull should sire calves that pack a punch–He's going to add a lot of growth and carcass merit to a calf crop ranking in the top 17% and 14% for WWT and YWT respectively, as well as impressive top 5% REA and top 8% MARB. Not only should his calves perform well on the rail, he should sire excellent females with TEAT and UDDER numbers in the top 2 and 1 percentiles. If you're need a bull to run at higher elevations, DO NOT MISS THIS BULL – PAP = 34!! He's a paternal-sib to 4 heifers from our Denver pen, and his mother raised one of the top three high sellers in last year's sale.

4218 CSU Advance 4218

Reg: 44655787 Tattoo: 4218 DOB: 4/5/24 Polled BULL

D Advance 304	ADV BEAR 91	ACT. BW
D Advance 538B	D Louise 905	83
D Miss Advance 13	D Triple 8 Advance	ADJ. WW
	D Miss Advance 223	655
KCF Bennett Acclaim C442	KCF Bennett Encore Z311 ET	ADJ. YW
CSU Acclaim Miss 9225	KCF Miss Sensation A294	1067
CSU Miss A206	THM Durango 4037	PAP
	CSU Miss Dominator 8215	39

	CED	BW	WW	YW	MILK	M&G
	7.9	1.7	49	75	18	43
%	17	30	84	89	92	93

	CEM	REA	MARB	BMI	CHB
	3.9	0.48	0.23	391	110
%	24	52	29	43	74

This deep cherry-red bull brings the look and balance and is sure to catch your eye. We love his top shape, boldness of rib and and practical EPD profile. This stud is the kind of bull that stays productive and easy to manage over the long haul and if you're in the market for a low PAP sire, don't miss this one.

4224 CSU RAM 4224

Reg: 44652101 Tattoo: 4224 DOB: 4/9/24 Polled BULL

CSU Excede RAM 8203 ET	Mohican THM Excede Z426	ACT. BW
CSU 8203 RAM 1267	UA R294 Prospecta 1102	80
CSU Leader Miss 8268 ET	R Leader 6964	ADJ. WW
	CSU Miss A206	651
CMF 1756 Guideline 535G	R Landmark 4386	ADJ. YW
CSU Miss Guideline RAM 2243	L III TFL C609 1756	1223
CSU Miss B227	TH 122 71I Victor 719T	PAP
	CSU Miss Dominator 8201	40

	CED	BW	WW	YW	MILK	M&G
	6.5	1.8	55	85	25	52
%	26	32	63	70	67	72

	CEM	REA	MARB	BMI	CHB
	1.6	0.05	0.15	354	88
%	51	97	47	65	96

This dark red bull is rugged, stout, and powerful. He phenotypically pleasing with his outward rib shape and a big top. Don't overlook this bull who's ready for real-world use at more moderate elevations.

4219 CSU Valor 4219

Reg: 44652129 Tattoo: 4219 DOB: 4/6/24 Polled BULL

JDH Victor 719T 33Z ET	TH 122 71I Victor 719T	ACT. BW
RV Valor 9444g ET	JDH MS Yankee 11U ET	80
RV Bobbi 1404	ECR L18 Extra DEEP 9279	ADJ. WW
	HPH Miss Eptension 205 404	643
/S Mandate 66589 ET	R Leader 6964	ADJ. YW
CSU Miss Mandate RAM 0219	/S LADY Domino 0158x	1090
CSU 167Y Miss 8208 ET	NJW 33TB 100W Trust 167Y	PAP
	UA R294 Prospecta 1110	37

	CED	BW	WW	YW	MILK	M&G
	14	-1.2	59	90	20	50
%	2	4	44	57	89	79

	CEM	REA	MARB	BMI	CHB
	4.7	0.78	0.35	418	147
%	17	11	12	29	19

This bull has yet to disappoint us and is a hard one to let go as he has value from every angle. We like him so much we used him on cows this summer, and he is a paternal half-sib to four of our Denver pen heifers this year. Speaking of Denver, his mother was a member of the 2022 Champion Pen of 3 Spring Yearling Heifers at National Western. It would do you right to turn him out with heifers as he ranks in the top 2% for CED and top 4% for BW. He is also in the top 2% for UDDER and top 1% for TEAT and should improve the replacement females in your operation. If your needs are more related to endpoint over replacement, he ranks in the top 11% REA, top 12% MARB, and top 19% in CHB. This bull is proportionate, deep, flexible, and most importantly your next herd sire. Did we mention he has a PAP score of 37?! Do not pass up the opportunity to get such a complete bull that can work at any elevation, we would hate for you to have to see this goggle-eyed bull in your neighbor's pasture and not your own.

4224

4219

4228 CSU Red Cloud 4228 {mdc}

Reg: 44655789 Tattoo: 4228 DOB: 4/15/24 Polled BULL

Churchill RED Baron 8300f ET	R Leader 6964	ACT. BW
Churchill RED Cloud 0376h ET	Churchill LADY 500C ET	100
BR Validated B413 6035 7098	Efbeef BR Validated B413	ADJ. WW
	BR Bennett 4R Y428 2101 6035	635
KT Small TOWN KID 5051	NJW 73S W18 Hometown 10Y ET	ADJ. YW
CSU Miss KID RAM 0231	KT MS 0124 Times A Wastin 2086	1123
CSU Miss B227	TH 122 71I Victor 719T	PAP
	CSU Miss Dominator 8201	37

	CED	BW	WW	YW	MILK	M&G
	0.4	3.4	70	113	33	68
%	77	67	8	8	17	7

	CEM	REA	MARB	BMI	CHB
	2.9	0.54	0.1	382	130
%	35	41	61	48	40

The look and presence of this Red Cloud son hit you hard as soon as you walk into the pen. The amount of body and mass this bull brings is unmatched! A potential performance sire, he is ranking in the top 8% of the breed for WWT and YWT offering you the potential for larger paydays. Out of a moderate Small Town Kids 5051 daughter who has consistently produced quality progeny, this bull brings power and versatility to near any operation.

4228

4230

4230 CSU Ground Breaker 4230

Reg: 44661280 Tattoo: 4230 DOB: 4/20/24 Horned BULL

OR N162 Husker L574	OR 3575 Husker N162 ET	ACT. BW
OR L574 Groundbreaker B945	DS RAM Domet 702	60
OR 3027 Miss Domino 403R	UPS Domino 3027	ADJ. WW
	DS 9059 MS BEEF 815	579
/S Mandate 66589 ET	R Leader 6964	ADJ. YW
CSU Miss Mandate 1203	/S LADY Domino 0158x	1058
CSU A250 Miss 9201	Efbeef X651 Tested A250	PAP
	CSU Trust Miss 7235	39

	CED	BW	WW	YW	MILK	M&G
	16.7	-3.9	50	78	28	53
%	1	2	81	85	47	68

	CEM	REA	MARB	BMI	CHB
	5.1	0.69	0.35	434	139
%	14	20	12	21	29

If you're in the market for a goggle-eyed HORNED bull, he is sure to impress and has been on our team's radar since August. He is stout-made, level topped, and will do best as a heifer bull, ranking in the top 1% for CED and top 2% for BW. His calves are certain to perform in the feedyard and on the rail as he is in the top 20% for REA and top 12% MARB. Even so, there is an opportunity to build high-performance maternal baldies out of him through his top 21% BMI. Either way you go, you will find success with this Groundbreaker son.

4231 CSU Harvest 4231

Reg: 44653887 Tattoo: 4231 DOB: 4/22/24 Homo Polled BULL

SHF Daybreak Y02 D287 ET	SHF YORK 19H Y02	ACT. BW
SHF Harvest D287 H033 ET	SHF Miss M326 T08 ET	80
SHF TIME 001A D81	Gerber Anodyne 001A	ADJ. WW
	SHF TIME 42X A140	617
BG LCC 11B Perfecto 84F	LCX Perfecto 11B ET	ADJ. YW
CSU Miss Perfecto 1232 ET	BG 100W Nicky 31C	1064
CSU Leader Miss 8202 ET	R Leader 6964	PAP
	CSU Miss A206	40

	CED	BW	WW	YW	MILK	M&G
	7.7	-.1	64	101	26	58
%	18	8	23	27	61	44

	CEM	REA	MARB	BMI	CHB
	3.3	0.94	0.34	396	164
%	30	4	13	40	8

Another bull tracing back to one of Dr. Cunningham's favorite cow families, this moderate, dark red bull is a great option for heifers. He's another team favorite – he's goggle-eyed, level and wide topped, big ribbed, and deep through his mid-section. His growth and carcass figures indicate that his calves should add dollars to your pocket.

4231

4232 CSU Red Cloud 4232

Reg: 44655780 Tattoo: 4232 DOB: 5/4/24 Homo Polled BULL

Churchill RED Baron 8300f ET	R Leader 6964	ACT. BW
Churchill RED Cloud 0376h ET	Churchill LADY 500C ET	93
BR Validated B413 6035 7098	Efbeef BR Validated B413	ADJ. WW
	BR Bennett 4R Y428 2101 6035	599
SHF Yahoo 40W Y37	Bar-h Ideal 40W	ADJ. YW
CSU Miss B215	SHF LADY W05	1003
CSU Miss Z211	TH 122 71I Victor 719T	PAP
	CSU MS Aggie 7222	35

	CED	BW	WW	YW	MILK	M&G
	2.5	1.7	54	77	30	56
%	60	30	67	86	33	55

	CEM	REA	MARB	BMI	CHB
	4.5	0.43	0.17	454	107
%	18	61	42	14	78

This bull is pigmented on both eyes, he's rugged built and gets the fundamentals right -- level topped, square hipped, and balanced on the profile. 4232 comes with a functional frame size that fits well in practical cowherd settings. He is an outstanding option if you're looking to make replacement females with a CEM ranking in the top 18% combined with is exceptional UDDER (top 2%) and TEAT (top 1%) which should contribute to long-term cow functionality, and a practical DMI (top 8%) points toward efficiency. With a PAP of 35, 4232 offers a dependable option for folks in high elevation.

4238 CSU 085H 4238

Reg: 44652396 Tattoo: 4238 DOB: 5/21/24 Homo Polled BULL

R Leader 6964	Hyalite ON Target 936	ACT. BW
KJ Nella 919E Leader 085H	R Miss Revolution 1009	78
KJ Nella 365T Roberta 919E	KJ BJ 58Z Cat-man-du 288C ET	ADJ. WW
	KJ Roberta 365T	510
Loewen Genesis G16 ET	NJW 79Z Z311 Endure 173D ET	ADJ. YW
CSU Miss Genesis 1274 ET	Loewen 77 48 Miss 344N 4rb42et	1043
BR Bryanna 5135	MM Outcross 1312 ET	PAP
	BR Bryanna 1020	35

	CED	BW	WW	YW	MILK	M&G
	7.6	.4	53	85	38	65
%	19	12	71	70	4	15

	CEM	REA	MARB	BMI	CHB
	-1.0	0.07	0.2	482	106
%	81	97	35	8	80

A rugged, athletic goggle-eyed Hereford that blends depth, mobility, and performance. He's level topped and big bellied; this bull moves free and easy while backing it up with strong maternal numbers. He's a solid contender for your heifers and could be the foundation of your herd's future as he ranks in the top 8% for BMI. Let's not miss his 35 PAP score. He'd work great for producers at higher elevations. Built for functionality with the data to support durability, capacity, and long-term productivity, this bull is the man.

4235 CSU 085H 4235

Reg: 44652392 Tattoo: 4235 DOB: 5/13/24 Polled BULL

R Leader 6964	Hyalite ON Target 936	ACT. BW
KJ Nella 919E Leader 085H	R Miss Revolution 1009	83
KJ Nella 365T Roberta 919E	KJ BJ 58Z Cat-man-du 288C ET	ADJ. WW
	KJ Roberta 365T	587
/S Mandate 66589 ET	R Leader 6964	ADJ. YW
CSU Miss Mandate RAM 0215	/S LADY Domino 0158x	1119
CSU 167Y Miss 8271 ET	NJW 33TB 100W Trust 167Y	PAP
	UA R294 Prospecta 1110	37

	CED	BW	WW	YW	MILK	M&G
	8.6	1.0	69	106	24	58
%	14	19	10	17	73	44

	CEM	REA	MARB	BMI	CHB
	8.0	0.45	0.26	459	147
%	3	57	23	13	19

He's athletic and built to sire calves that grow ranking in the top 10% WWT and top 17% YWT. Use him to make feeder cattle with those growth numbers combined with his carcass numbers; and get more bang for your buck by using him on larger framed heifers as he ranks in the top 14% CED. He's got tons of pigment around those eyes, is correct in his lines, and low PAP to boot! He's a paternal half-sib to one of the heifers we showed at National Western and would make an excellent addition to any herd whether you're looking to make straight Herefords or baldies.

4242 CSU 085H 4242

Reg: 44652399 Tattoo: 4242 DOB: 5/26/24 Polled BULL

R Leader 6964	Hyalite ON Target 936	ACT. BW
KJ Nella 919E Leader 085H	R Miss Revolution 1009	78
KJ Nella 365T Roberta 919E	KJ BJ 58Z Cat-man-du 288C ET	ADJ. WW
	KJ Roberta 365T	581
Loewen Genesis G16 ET	NJW 79Z Z311 Endure 173D ET	ADJ. YW
CSU Miss Genesis 1225 ET	Loewen 77 48 Miss 344N 4rb42et	1138
BR Belle Pepper E094 ET	BAR S LHF 028 240	PAP
	BR Belle 4082 ET	39

	CED	BW	WW	YW	MILK	M&G
	7.2	1.5	60	99	36	66
%	21	26	39	32	7	12

	CEM	REA	MARB	BMI	CHB
	4.6	0.34	0.27	493	132
%	17	76	22	6	37

You can't help but to admire the depth and mass in this bull all while getting excited about that cherry red color he flaunts. We would love to see some females out of this sire. He ranks in the top 7% for MILK, top 17% for MCE, and top 12% M&G. He even is in the top 6% for BMI. Not to mention he is a paternal half sib to one of the heifers in our Denver pen.

4242

– CSU-ARDEC –

About CSU-ARDEC (Agricultural Research Development and Education Center):

ARDEC was founded in 1993 to support cooperative research and engagement on soil, crop and water resources as a facility offering integrated teaching and research under shared management. After early success, a second ARDEC was added in 1999, using the same multidisciplinary research format to include animal sciences. Now, they are fully operational off-campus research and teaching farm, working livestock facility, and horticulture research center operating under the direction of the Colorado Agricultural Experiment Station. With goals that include coordinated and integrated scientific investigation on agricultural problems; facilities designed to enhance multidisciplinary on-site work among faculty, staff, students, producers, processors, Ag-industry, government; and educational outreach and student involvement on new agricultural technologies and the value of sustaining U.S. agriculture.

The livestock units consist of an irrigated grass circle that is utilized for both grazing the cow-herd and grazing research. Currently, the cow herd consists of approximately 100 head of registered Angus and Hereford females. In addition to the teaching herd, there is capacity for 500 head in the feedlot and 190 head in the feed intake unit. Researchers from Animal Sciences also maintain a small flock of sheep that is maintained and utilized for both teaching and research. Students across CSU use these facilities for teaching, learning, and research. It also serves as a place of student employment and volunteer work.

Hereford Females

4201 CSU MS Valor 4201

Reg: 44652079 Tattoo: 4201 DOB: 3/2/24 Polled COW

JDH Victor 719T 33Z ET	TH 122 71I Victor 719T	ACT. BW
RV Valor 9444g ET	JDH MS Yankee 11U ET	48
RV Bobbi 1404	ECR L18 Extra DEEP 9279	ADJ. WW
	HPH Miss Eptension 205 404	538
Innisfail WHR X651/723 4020 ET	Efbeef TFL U208 Tested X651 ET	ADJ. YW
CSU Miss 4020 RAM 2209	Innisfail P230 T723	802
CSU Miss Validated RAM 0240	Efbeef BR Validated B413	PAP
	CSU Trust Miss 7238	39

	CED	BW	WW	YW	MILK	M&G
	12	-1.2	60	94	17	47
%	5	4	39	45	94	87

	CEM	REA	MARB	BMI	CHB
	0.5	0.48	0.45	485	148
%	65	52	6	7	18

Due to calve 3/26/26 to CMF 1756 Guideline 535G (AHA No. 44089325). Pasture exposed to CSU Harvest 4231 (AHA No. 44653887) July 7 to August 28.

4239 CSU MS 085H 4239

Reg: 44652397 Tattoo: 4239 DOB: 5/22/24 Polled COW

R Leader 6964	Hyalite ON Target 936	ACT. BW
KJ Nella 919E Leader 085H	R Miss Revolution 1009	88
KJ Nella 365T Roberta 919E	KJ BJ 58Z Cat-man-du 288C ET	ADJ. WW
	KJ Roberta 365T	544.1
SHF Yahoo 40W Y37	Bar-h Ideal 40W	ADJ. YW
CSU Miss D245	SHF LADY W05	874
CSU Miss B240	THR THOR 4029	PAP
	CSU Feltons Dominator 6225	35

	CED	BW	WW	YW	MILK	M&G
	6	2.7	61	92	20	51
%	29	52	35	51	89	76

	CEM	REA	MARB	BMI	CHB
	2.3	0.23	0.35	441	135
%	42	88	12	19	33

Due to calve on 5/25/26 to CSU Harvest 4231 (AHA 4463887). AI bred to RST Small Town Kid 9023 on June 19, 2025. Pasture expoed to CSU Harvest 4231 July 7 to August 28.

4243 CSU MS 085H 4243

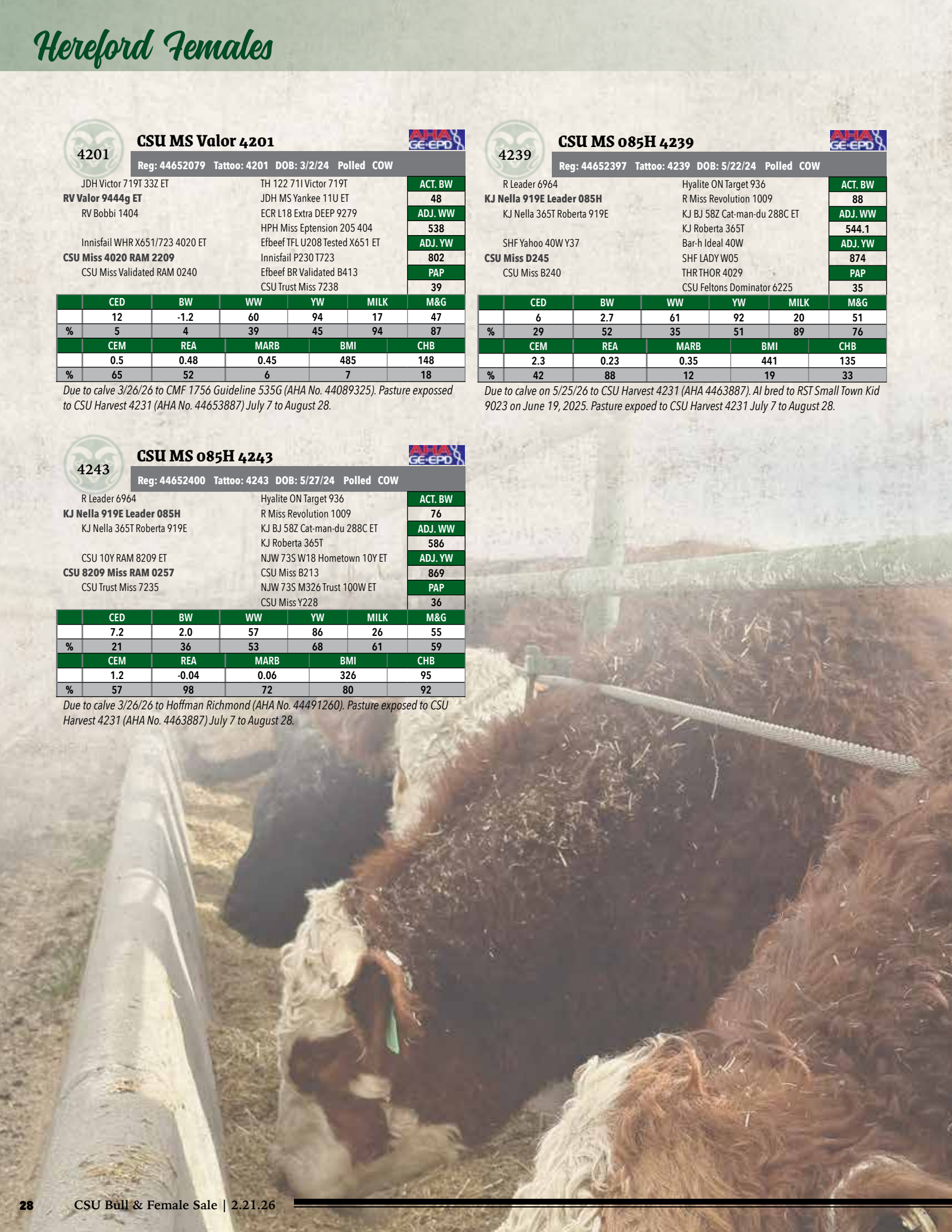
Reg: 44652400 Tattoo: 4243 DOB: 5/27/24 Polled COW

R Leader 6964	Hyalite ON Target 936	ACT. BW
KJ Nella 919E Leader 085H	R Miss Revolution 1009	76
KJ Nella 365T Roberta 919E	KJ BJ 58Z Cat-man-du 288C ET	ADJ. WW
	KJ Roberta 365T	586
CSU 10Y RAM 8209 ET	NJW 73S W18 Hometown 10Y ET	ADJ. YW
CSU 8209 Miss RAM 0257	CSU Miss B213	869
CSU Trust Miss 7235	NJW 73S M326 Trust 100W ET	PAP
	CSU Miss Y228	36

	CED	BW	WW	YW	MILK	M&G
	7.2	2.0	57	86	26	55
%	21	36	53	68	61	59

	CEM	REA	MARB	BMI	CHB
	1.2	-0.04	0.06	326	95
%	57	98	72	80	92

Due to calve 3/26/26 to Hoffman Richmond (AHA No. 44491260). Pasture exposed to CSU Harvest 4231 (AHA No. 4463887) July 7 to August 28.



Animal ID		Color	DOB	BW	WW	YW	Sire	Sire Reg. No.	Age of Dam	PAP	Predicted 2026 Calving	Comments
4314	CSU-ARDEC	BBF	4/28/24	80	540	975	Angus Multi Sire Pasture		7	35	4/25/26	Due to Natural Service mating CSU Harvest 4231 (AHA 4463887). Pasture exposed 7/7/25 to 8/28/25.
4316	CSU-ARDEC	BBF	4/29/24	60	380	770	Angus Multi Sire Pasture		3	39	4/25/26	Due to Natural Service mating CSU Harvest 4231 (AHA 4463887). Pasture exposed 7/7/25 to 8/28/25.
4317	CSU-ARDEC	BBF	4/29/24	80	485	920	Angus Multi Sire Pasture		5	35	4/25/26	Due to Natural Service mating CSU Harvest 4231 (AHA 4463887). Pasture exposed 7/7/25 to 8/28/25.
4319	CSU-ARDEC	BBF	5/1/24	90	550	970	Angus Multi Sire Pasture		6	39	4/25/26	Due to Natural Service mating CSU Harvest 4231 (AHA 4463887). Pasture exposed 7/7/25 to 8/28/25.
4323	CSU-ARDEC	RWF	5/10/24	80	480	840	KJ Nella 919E Leader 085H	P44166480	7	37	5/25/26	Due to Natural Service mating CSU Harvest 4231 (AHA 4463887). Pasture exposed 7/7/25 to 8/28/25.
4588	CSU-BIC	BLK	3/14/24	54	449	637	Connealy Rowden	20132389	3	44	5/2/26	Due to Natural Service mating in-herd sires in multi-sire pasture - 4519/1777.
4600	CSU-BIC	BLK	3/16/24	70	510	602	SITZ Essential 731J	20003666	3	49	4/12/26	Due to Natural Service mating in-herd sires in multi-sire pasture - 4519/1777.
4602	CSU-BIC	BLK	3/16/24	69	506	632	Basin True Grit 1021	20072762	4	41	5/2/26	Due to Natural Service mating in-herd sires in multi-sire pasture - 4519/1777.
4603	CSU-BIC	BLK	3/16/24	67	470	576	Duppong Demand 127	20264601	7	42	4/12/26	Due to Natural Service mating in-herd sires in multi-sire pasture - 4519/1777.
4739	CSU-BIC	BLK	3/28/24	73	484	600	5219		5	41	5/2/26	Due to Natural Service mating in-herd sires in multi-sire pasture - 4519/1777.

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