Volume 32 Number 1 January 2024 Linking SimGenetics to Commercial Cattle

In This Issue:

At the Heart of the Issue

Bovine Congestive Heart Failure in the Feedyard

Feedlot Trends in Management and Productivity

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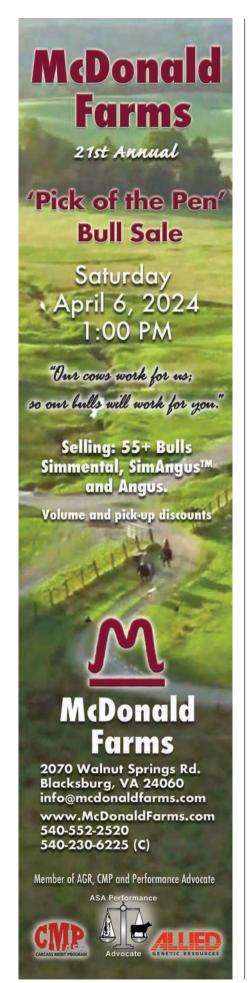
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Bovine heart health affects everyone in the beef industry. Collecting data and combining perspectives may be our best path toward solutions. Bull ultrasound photo by Josh Hook, Tracy, MN.



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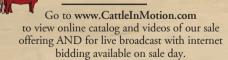
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FROM THE EDITOR

by Lilly Platts, managing editor



I hope this issue of *SimTalk* finds everyone well, and having spent some time off during the holidays.

This issue focuses on congestive heart failure in beef cattle, which was a primary topic at ASA's 2023 Fall Focus event in Denver, Colorado.

One of our feature articles is a summary of five expert talks from the Fall Focus event. These industry professionals and scientists each offer insight on what causes heart failure, how it's being studied, and future solutions.

Many of my co-workers put a lot of thought into last year's Fall Focus event, and chose to tackle some big industry issues head-on. If you notice differing ideas it is because these speakers were chosen based on their expertise, not to push any narratives.

I also had the pleasure of speaking to two feedlot professionals for another article focused specifically on heart failure loss in feedlots, and management practices that help mitigate mortality. A third article, reprinted from the Oklahoma State University Extension, shares feedlot trends that many of you may find interesting.

I enjoyed learning more about this topic, and am especially looking forward to our March issue, which will focus on sustainability.

Again, I hope the New Year finds everyone well. Thanks for reading!

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At the Heart of the ISSUE

by Lilly Platts



ASA's 2023 Fall Focus event honed in on several issues that are top of mind for the industry today. This included five expert talks about heart health in beef cattle. Pulmonary Arterial Pressure (PAP) testing has been standard practice for many seedstock producers for some time, often preventing costly loss for those who run cattle at high elevation. Additionally, Bovine Congestive Heart Failure (BCHF) has been on the rise in feedlots, killing cattle days before harvest. Like many things in the beef industry there are a variety of factors at play, from environment to genetics and management, which makes getting to the root of an issue like heart failure difficult. Please note that the following summaries are not comprehensive, but rather highlights of each presentation.

Justin Buchanan, PhD Geneticist, J.R. Simplot Company

Dr. Justin Buchanan is primarily responsible for managing genetic evaluation and genetic improvement across Simplot resources. Buchanan shared data collected at Simplot concerning BCHF, first clarifying the difference between BCHF and PAP. "We certainly see an uptick in congestive heart failure when it gets warm in Grandview, Idaho," he said. "There's a genetic component for PAP, and a genetic component for congestive heart failure. We know the genetic correlation probably

isn't there, so that indicates there's a separate set of genes leading to congestive heart failure."

Buchanan continued, "There's an independent set of genes leading to PAP, but there is also some crossover. These two traits are related, and it's pretty clear from the physiology how that works."

Simplot has the unique opportunity to track cattle throughout the cycle from the ranch to the feedyard. Buchanan gave an example of a recent group of cattle from one of Simplot's cow-calf operations that had 26 heart failure mortalities in a group of 988. The majority died just weeks before harvest. "This is why this trait is so important to us and why we've invested a pretty big chunk of our research budget in designing a tool that works today," Buchanan said.

To gather data at Simplot's packing facility (CS Beef), Buchanan and his team evaluated hearts as animals were harvested. By scanning the carcass tag, the heart score went back into the feed yard system, tying the data together. "To date we've collected close to 79,000 heart scores all out of CS Beef. These are all fat cattle that walk through the plant," he said. "The big picture here is that since 2020 around 4.3% of cattle that walk through the packing plant door are at a heart score four or five. So, they are in end-stage heart failure, so with one more stressor or one more weather event those cattle would have died in the feedlot."

Buchanan and his team then took this data and did full genome sequencing. "This is a moderately heritable trait. It's in line with carcass weight and gain, and there's an opportunity for selection," he shared.

The Simplot team used a multi-breed approach, and compared data across various breed compositions, with

more concentration in black-hided cattle. "It is a problem with every breed," Buchanan said.

Mark Enns, PhD

Professor, Colorado State University

Dr. Mark Enns teaches courses in animal breeding and genetics, and livestock production systems. His primary research focuses on beef cow adaptability / longevity, sustainability, and genetic improvement in susceptibility to high mountain disease and bovine congestive heart failure.

Dr. Enns discussed the development of a PAP EPD. There are many considerations, including genetic variability, environmental influences, what is being measured, the construction of contemporary groups, and more. Due to the lack of data on PAP, finding correlated traits is also helpful. "Our goal in developing PAP EPD was to give breeders a tool to select animals that are less susceptible to pulmonary hypertension, and ultimately the probability of a death," Enns shared.

Heritability is a primary focus. Enns' team found that there is a genetic contribution to overall pulmonary hypertension. The next piece involved looking at the environmental, or non-genetic factors that influence the PAP measures. Things like parasite load can affect PAP scores. "We know that respiratory disease or anything that damages the lung function is going to influence that observation that we get when the veterinarian takes a PAP," Enns explained.

This information, in addition to adjustments for elevation, age, temperature, and more are considered when determining contemporary groups. "They've all had the same opportunity to express genetic differences," Enns said.

Heterosis is another factor that Enns and his team explored. "We know in the context of our research that heterosis has a favorable effect on pulmonary arterial pressure," he said.

Enns also discussed the nuances of effectively using a PAP EPD. "PAP is a unique trait because it's not just the EPD we're concerned about, but also the genetics it passes on," Enns said. Matings add another challenge. "This is where pulmonary arterial pressure is a unique trait because you need to interpret that it's a new EPD in the context of where the herd is currently, and how the genetics will be used," Enns explained.

Enns also clarified that a PAP EPD may be useful when looking at genetics and the next generation, while a PAP score is going to be the most useful for animals that will actually be living at a high elevation.

"Where we're at with our work right now is looking at how we can utilize genomic information to up the accuracy of our PAP EPD and give you as breeders better tools to select against this," Enns concluded.

Tim Holt, DVM

Professor and Clinical Instructor, Colorado State University

Dr. Tim Holt has been measuring PAP scores in the western US since 1980, and has studied pulmonary hypertension in cattle extensively. Currently, he is studying and evaluating the increase in feedlot cardiac death, and potential ties between bovine high mountain disease and acute cardiac failure. Holt also gave a live PAP scoring demonstration at Fall Focus 2023.

Holt explained the physiological process of heart failure in cattle. Hypoxia, which is a lack of oxygen to

(CONTINUED ON PAGE 14)

Opposite: Participants from across the country gathered in Denver, Colorado, for Fall Focus 2023. Right: Heart failure can affect cattle at high elevations; PAP measurements are a way to reduce the risk of death.



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At the Heart of the Issue

(CONTINUED FROM PAGE 11)

the body, is what happens when the heart isn't pumping blood and oxygenating the lungs. "The most common reason for that is altitude," he explained.

Shunting is the process of blood being pushed from the bottom to the top where it becomes oxygenated. When this fails, an animal becomes hyperresponsive. In cattle, the heart can remodel to accommodate for a number of issues, in which case the heart works harder to get oxygen into the blood. "It [the heart] goes through this muscle thickening called pulmonary hypertrophy, where the muscle gets thicker and thicker. If that one gallon of blood can't get into the lungs, hence we have pulmonary hypertension and that heart is going to work and work to try and overcome that, until finally it goes into right ventricular dilation and death," Holt explained.

He also shared an example demonstrating the severity of PAP issues: in a group of 435 calves, 117 died before six months of age from congestive heart failure. Holt explained, "I look at a sire group with a lot of potential for high PAP, and therefore I'm going to draw the conclusion that the sire may not be good for use in altitude."

Scott Speidel, PhD

Associate Professor, Colorado State University

Dr. Scott Speidel is an associate professor of beef cattle breeding and genetics in the Department of Animal Sciences at Colorado State University. Speidel's research interests include the development of models for genetic evaluation of efficiency and adaptability traits in beef cattle. Speidel discussed the development of genetic prediction for heart failure.

Developing genetic prediction tools requires a robust dataset. "We need a lot of data that we can collect relatively inexpensively, get reported, get the pedigree associated, and then we can actually make a genetic evaluation," Speidel explained.

The scoring system for heart failure ranges from one to five, with one and two being healthy, and three to five being an issue. Speidel shared that his research has involved collecting heart scores at packing plants.

Speidel's research uses a holistic approach, with a focus on understanding the relationship between heart score and the other measures that are already taken on animals. "One of my biggest goals was to really understand how heart scores relate to other carcass traits," Speidel shared. "How they relate to feed intake, or pulmonary arterial pressures that we're already measuring."

As of August, 1,400 head of Angus-influenced cattle harvested in the Texas panhandle had been evaluated. The data also included a subset of PAP and feed intake scores. In that group of cattle, 71% had normal heart scores, while 29% were "unhealthy threes or fours."

"The feedyard didn't have any mechanisms of identifying animals prior to them having extreme heart failure, so we never observed those in the plant," Speidel

continued, adding that in some populations up to 40% of cattle have an affected or unhealthy heart at harvest.

In addition to heart scores, Speidel's team has collected PAP scores, including at nine months of age as they enter the feedlot, and from two to four weeks before harvest. PAP scores increased (worsened) across the feeding period, at a low elevation, which is not expected. "Higher PAP scores are indicating higher heart scores, phenotypically," Speidel said.

When looking at the relationship between heart failure score and other carcass traits, the strongest relationship was found with hot carcass weight. "We have a .063 core genetic correlation between heart score and carcass weight," Speidel shared. "The way I like to think about that is if you think about two traits that have a set of genes, and the genetic correlation is measuring the percentage of genes influencing both traits. So, 63% of the genes that influence hot carcass weight are also influencing our problems with heart score."

Larger ribeyes were also noted as having a stronger correlation than other carcass measures.

Brian Vander Ley, DVM

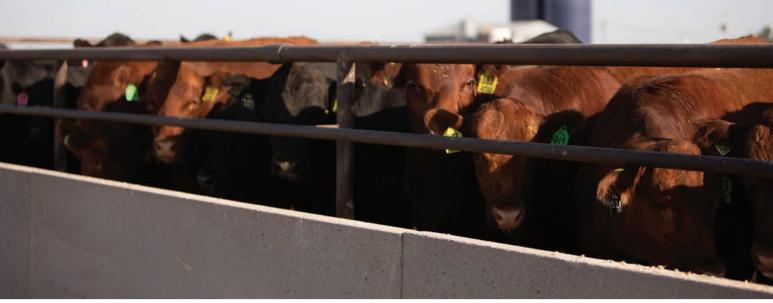
Associate Professor and Veterinary Epidemiologist, University of Nebraska–Lincoln, Great Plains Veterinary Educational Center

Dr. Brian Vander Ley conducts research aimed at improving livestock health and well-being, and serves as a veterinary Extension specialist. Concerning the issue of heart failure, Vander Ley said, "What we'd really like to do is figure out how to make animals healthier by figuring out what we can tie to the associations between characteristics of animals, the environments they live in, and the things we do to manage them for the outcomes we're interested in."

One of the most challenging aspects of heart failure in cattle is determining what is associated, and what is causally related. "We see a lot of variation in not just the manifestation of a particular disease, but often in the paths that can lead to the development of a particular syndrome," he explained.

Vander Ley then discussed the cardiovascular system, comparing the system to a relay race: when the baton holder doesn't get to the next runner in time, the whole system fails. "The heart is entirely dependent on elastic vasculature. All the blood vessels stretch out a little bit, and once the heart relaxes, that stretched-out blood vessel will push blood back into the heart," Vander Ley described.

The heart and cardiovascular system are finely tuned. The heart has two circuits: one oxygenates blood, and the other goes out to the organs and muscles. Each has to pump the same amount of blood to stay in balance. The right side of the heart is responsible for oxygenating the blood via the lungs, which is why "right-sided" heart failure is referenced in cattle.



BCHF has been affecting cattle that are close to finished weight at an increasing rate.

Studying the progression of heart failure in cattle is particularly challenging. Vander Ley explained that things like echocardiography, which is used on humans, doesn't work because of the amount of tissue the ultrasound would have to get through. Another challenge is identifying the actual cause, or incident, that leads to heart failure. "One of the most challenging things about heart disease is that in order to know when the insult happens, we have to figure out what the insult is, which is the holy grail of research," Vander Ley said.

The heart of an animal in heart failure will compensate for some time by increasing in rate, or building extra muscle, masking the issue. Additionally, the timing of the failure when a heart is evaluated presents a challenge for researchers. Vander Ley asked, "Are we looking at different stages of progression, or are we looking at different severities of disease?"

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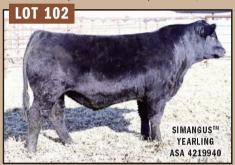
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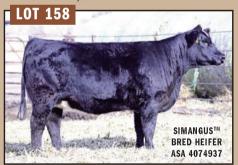
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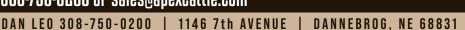


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BEST PRACTICES FOR SEEDSTOCK PRODUCERS

Best Practices to Receive the Most Accurate Genetic Predictions

1 Clearly define breeding objectives

With the ability to increase the rate of genetic change comes the possibility to make mistakes at a faster pace. Breeding goals need to be clearly identified to ensure that selection at the nucleus level matches the profit-oriented needs of the commercial industry.

2 Use whole herd reporting

Inventory-based reporting captures more complete phenotypes on reproduction and longevity traits, and thus creates more accurate genetic selection tools.

3 Properly define contemporary groups

It is important for the precision of the genetic evaluation to group animals treated uniformly. Proper reporting of contemporary groups reduces bias in EPD.

4 Take data collection and reporting seriously

Phenotypes are the fuel that drives the genetic evaluation. Take pride in collecting accurate data. Report records on the complete contemporary group in order to paint the most accurate picture of the genetics in these cattle. If possible, collect additional phenotypes like mature cow weight, cow body condition score, udder scores, feed intake, and carcass data.

Make both thorough and accurate phenotypic data collection for economically relevant traits a high priority

The quantity and quality of fertility traits need to dramatically improve. Providing disposal codes to identify why females leave the herd is vital. Commercial data resources, where the true economically relevant traits exist, are going to become more critical to capture. Breeders can help prove the genetics of their own seedstock by encouraging their commercial customers to join ASA's Commercial Total Herd Enrollment (THE) option and add valuable data to the evaluation.

6 Use index-based selection

As the list of published EPD continues to grow, using economic selection indices will become even more helpful to reduce the complexity of multiple trait selection.

If the number of EPD increase, tools to reduce the complexity of sire selection for commercial producers must continue to develop. Breed associations and seedstock producers have the obligation to aid commercial clientele in making profitable bull selection decisions.



Jackie Atkins, PhD



Matt Spangler, PhD



Bob Weaber, PhD



Wade Shafer, PhD

7 Use genomics

Genomic selection offers an opportunity to increase the rate of genetic change and break the antagonistic relationship between generation interval (the average age of the parents when the next generation is born) and the accuracy of selection (e.g., accuracy of EPD) — two components that determine the rate of genetic change. However, as with any tool, genomic information must be used correctly and to its fullest extent.

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Best Practices for Genomic Testing

All animals within a contemporary group should be genotyped.

If genomic data are meant to truly enable selection decisions, this information must be collected on animals before selection decisions are made. The return on investment of this technology is substantially reduced if it is used after the decision is made. The ASA's Calf Crop Genomics (CCG) program offers 50% off GGP100K test for breeders who commit to genotype the entire calf crop. See sidebar for more details.

Both male and female animals should be genotyped.

The promise of genomic selection has always suggested the largest impact is for lowly heritable and/or sex limited (e.g., fertility) traits or those that are not routinely collected (e.g., disease). This is indeed true, but it necessitates that genotyped animals have phenotypes. For sex-limited traits, this becomes a critical choke point, given that historically the vast the vast majority of genotyped cattle are males. If producers wish to have genomic-enhanced EPD for traits such as calving ease maternal and heifer pregnancy, they must begin or continue to genotype females. The ASA has a unique program called the Cow Herd DNA Roundup (CHR) to help herds collect female genotypes. See sidebar for more details.

Genotypes can provide useful information in addition to predictions of additive genetic merit.

Do not forget the value in correcting parentage errors, tracking inbreeding levels, identifying unfavorable haplotypes, estimating breed composition, and estimating retained heterozygosity. All of these can be garnered from populations that have a well-defined set of genotyping protocols.

The beef industry should be congratulated for the rapid adoption of genomic technology, but there is a lot of work to do. Of critical importance is the fact that genomic technology will continue to change and does not replace the need for phenotypes nor the fundamental understanding of traditional selection principles including EPD and accuracy.

Total Herd Enrollment (THE)

A cow inventory reporting program, THE requires participants to provide annual reproductive and inventory status on their cow herd. THE is designed to improve quality of data submitted for the genetic evaluation, and in turn improve and develop reproductive EPD. By



submitting data on the entire calf crop or contemporary group, breeders will receive more accurate predictions of their cattle. The ASA has four THE options to fit most seedstock and commercial operations.

Cow Herd DNA Roundup (CHR)

The Cow Herd DNA Roundup (CHR) is designed to increase the number of female genotypes to better predict maternal traits, such

as maternal calving ease. Genotyping entire herds reduces bias created when only the best cattle are genotyped. Gathering massive amounts of genotypes on entire cow herds will significantly improve the genomic predictions and rate of genetic progress. As parentage testing is included, CHR herds will have pedigrees validated through



DNA. Participating breeders benefit from having genomically enhanced EPD on the entire cow herd — equivalent to a lifetime number of calf records in several traits for an exceptionally low cost.

Calf Crop Genomics (CCG)

Calf Crop Genomics, a research project launched by the ASA in collaboration with Neogen Genomics, offers 50% off GGP100K genomic test including parentage (\$25 compared to \$50 equivalent test) to participating breeders who test their entire calf crop. Geno-

typing entire calf crops is important to use genomically enhanced EPD (GE-EPD) for selection decisions, reduce selection bias in genomic predictions, and increase the volume of genotyped animals for future improvements to genetic predictions. The latter two points make any singular genomic test in the future better for all members using genomics.



Carcass Expansion Project (CXP)

Despite the importance of carcass traits to our industry, few producers devote resources to collecting and recording actual carcass data. While the Carcass Merit Program (CMP) is a valuable

progeny test, it is limited in the number of records produced. We cannot depend on the CMP alone to bring in carcass data. In the age of genomics, it is clear we need genotypes on animals with actual carcass phenotypes.



Adding another layer of commitment to predicting carcass traits, the ASA initiated a new program, called the Carcass Expansion

new program, called the Carcass Expansion Project, in the fall of 2018 to increase the number of carcass records on genotyped animals. The ASA is are ramping up both phenotypic and genotypic data collection on terminal calves — a vital part of our vision.

Bovine Congestive Heart Failure in the Feedyard

by Lilly Platts

The increase in Bovine Congestive Heart Failure (BCHF) in finished cattle has added a new challenge for many feeders, including identifying affected cattle in time, and getting to the root of the issue. Dr. Randall Raymond, director of research and veterinary services for Simplot Land and Livestock, and David Trowbridge, manager of Gregory Operations, have a depth of knowledge and experience in the industry. Simplot is an integrated operation, taking their own cattle from conception to the feedlot, as well as many acquired cattle from across the western US, while Gregory Feedlots feeds a range of cattle from a variety of backgrounds. These two operations provide an insightful look at managing the issue in two very different systems.

Simplot Land and Livestock, headquartered in southern Idaho, is a diversified business including 30,000 mother cows, multiple feedyards with a capacity of 200,000, in addition to a large packing operation. After observing an increase in BCHF throughout their operation and seeing catastrophic death loss in other areas —



like the 2022 heatwave in Kansas that caused hundreds of deaths per day in feedlots — Raymond and his colleagues at Simplot set out to research the issue.

The continuity of the business has allowed Simplot to closely track cattle from conception to the rail. To date, they have evaluated around 95,000 animals affected by heart failure, and obtained DNA samples and genotypes on each. From this data, they have identified a promising solution.

"We've developed a genetic prediction model for heart failure," Raymond shares. "The outcome is very robust. The heritability is in the 0.35 range, and the accuracy is between 0.8 and 0.85."

A test has been developed, which started with a methodology established by the USDA identifying four DNA markers important to heart failure. "As we pulled that into a broader population, one of those four markers identified by the USDA was validated in this larger population and we found thousands of other markers. It's what we call a polygenic trait. We don't know how many genes, but it's probably dozens, and we know it's thousands of markers that are predictive," Raymond explains.

The test was recently licensed through Neogen and is just coming onto the market.

Heart failure risk is now a consideration throughout the Simplot system. "It's really a multi-tiered approach," Raymond shares. "From the cow-calf standpoint, we're trying to reduce feedyard incidents by screening all of our bulls that are going on commercial cows for this trait. We're not going to put another bull in that battery that hasn't been screened and assessed for heart failure risk."

Raymond emphasizes that this genomic test is not the same as Pulmonary Arterial Pressure (PAP) testing. "The association between PAP EPD and PAP scores is relatively low. We believe they are two separate traits. We think that this heart failure model we've developed encompasses multiple pathophysiologic pathways to heart failure. We believe elevated PAP is just a clinical sign of right-sided heart failure. It's a heart that's in the process of failing. This genetic test is really independent of PAP, and broader. We think that using PAP and this genetic prediction model together should have some benefit, and there could be some synergies to using both the traits in a multi-pronged approach toward selection, but they're very separate."

At Gregory Feedlots, Taybor, Iowa, cattle are coming in from a variety of operations. Trowbridge shares, "We have between 60 and 70 different customers each year, from 20 different states. Our customers' genetics are varied, from straight Angus to very mixed breeds."



Trowbridge attributes the issue to a combination of genetics and overfeeding. "We're taking cattle to a weight that's past their maximum growth, and just putting on fat. I don't think that's the whole reason, but with the combination of genetics and overfeeding is where we are seeing it," Trowbridge explains.

Gregory Feedlots does not see many deaths from BCHF, which Trowbridge attributes to their specific sorting procedure. "We're sorting them at finish time. We'll go into a pen of one hundred head and pull every animal we think has between five and six-tenths of an inch of backfat."

While Trowbridge and his colleagues are sorting cattle for processing based on individual evaluation, some systems involve sorting cattle when they come into the feedyard based on frame and muscle score. Largely, these pens are sent to slaughter as a whole, which means animals that finish faster may stay in the feedlot longer, leading to an increased risk of heart failure.

Over-fattening is top of mind, but Trowbridge emphasizes that cattle are still pushed to finish quickly, which is industry standard. "We are very aggressive implanters, and very aggressive feeders," he says.

Simplot has been employing a similar sorting approach for some time. "We've trained our pen riders to go into groups of cattle that are at high risk, or during high-risk times of the year, to identify some specific clinical signs. Then we remove them from the pen and ship them," Raymond shares. "That's allowed us to do a couple things. One is that we get the cattle to a harvest facility before they die. Two, it's given us the opportunity to see a lot of hearts that are in end-stage heart failure, but they made it to the plant."

Raymond and Trowbridge both acknowledge that simply feeding cattle at a slower rate, or to be less fat, doesn't fit within the industry or make financial sense.

Additionally, high performance isn't a straightforward indicator of risk. "We do know it [BCHF] is highly connected to performance. Animals that have a propensity for high carcass weight and high average daily gain tend to also be at high risk for this syndrome. However, there are animals with that same profile that are also low-risk," he explains.

Beyond the financial implications of finished cattle dying in the feedyard, animal welfare is a priority. Raymond explains that animals with heart failure don't respond to treatment — often showing signs of lethargy, respiratory distress, and occasionally swelling — which

can leave those caring for them feeling helpless. "We've tried a lot of things. The only option is to get them removed from the system and harvested prior to becoming more clinical or dying. That's been our most effective tool to date with handling the cattle that are in the pipeline: training our pen riders to identify those animals early," Raymond expands.

Animal welfare matters to the consumer as well. "Letting this condition perpetuate itself is going to be really challenging from an animal welfare standpoint," Raymond says.

Heat stress can be the breaking point for an animal at risk for heart failure. The huge losses from heat stress in recent years made international news, and placed a significant amount of scrutiny on the industry. "From a global industry perspective, if we don't work on this in a really coordinated fashion we're going to see a lot more of that. We're going to have really high scrutiny on animal welfare, and I think we should be scrutinizing ourselves about if we're doing the right thing."

The feedyard presents a number of challenges beyond BCHF, and minimizing other risk factors sets cattle up for success. Trowbridge explains that a good health protocol and genetics are vital. "Calves should be weaned for at least 60 days, and on a good nutrition and vaccine program," he shares. "I believe we can't make the cattle any better than they are, so genetics is another huge thing."

While BCHF has the largest financial implications for feedyards, Raymond believes the entire industry should be committed to improvement. "I think seedstock producers should be really worried about it," he shares. "Without testing cattle and being judicious we are going to continue selecting cattle that generate these high-risk animals because it's somewhat unknown without doing genetic testing," Raymond concludes.

<u>ST</u>



W/C Fort Knox 609F By W/C Bankroll 811D EPD: CE: 11 \$API: 134 \$TI: 85



W/C Pinnacle E80 By W/C Loaded Up 1119Y EPD: CE: 14 \$API: 118 \$TI: 71



W/C Night Watch 84E By CCR Anchor 9071B EPD: CE: 18 \$API: 139 \$TI: 83



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THSF Lover Boy B33 EPD: CE: 12 \$API: 148 \$TI: 91



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TJSC King of Diamonds 165E By LLSF Pays To Believe ZU194 EPD: CE: 13 \$API: 114 \$TI: 69



PBF Red Paint F88 By W/C Executive Order 8543B EPD: CE: 12 \$API: 122 \$TI: 72



SC Pay the Price C11 By CNS Pays to Dream T759 EPD: CE: 7 \$API: 113 \$TI: 78



JASS On The Mark 69D By W/C Loaded Up 1119Y EPD: CE: 11 \$API: 98 \$TI: 67



W/C Relentless 32C By Yardley Utah Y361 EPD: CE: 10 \$API: 114 \$TI: 74



WLE Copacetic E02 **By HPF Quantum Leap Z952** EPD: CE: 13 \$API: 108 \$TI: 77



Holtkamp Clac Change Is Coming 7H **By WLE Copacetic E02** EPD: CE: 13 \$API: 105 \$TI: 73



W/C Cyclone 385H By W/C Bankroll 811D EPD: CE: 11 \$API: 137 \$TI: 80



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WS Revival B26
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EPD: CE: 13 \$API: 110 \$TI: 65



CLRS Guardian 317G
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EPD: CE: 16 \$API: 206 \$TI: 117



KSU Bald Eagle 53G
By Hook's Eagle 6E
EPD: CE: 16 \$API: 183 \$TI: 102



WLE Black Mamba G203

By WLE Copacetic E02

EPD: CE: 15 \$API: 138 \$TI: 82



I Reckon 043J
By Reckoning 711F
EPD: CE: 11 \$API: 123 \$TI: 74



W/C Express Lane 29G
By Rubys Turnpike 771E
EPD: CE: 11 \$API: 123 \$TI: 74



CLRWTR Clear Advantage H4G
By LLSF Vantage Point F398
EPD: CE: 15 \$API: 164 \$TI: 102



Erixon Bitten 203A

By NCB Cobra 47Y

EPD: CE: 12 \$API: 135 \$TI: 87



LCDR Favor 149F
By LCDR Witness 541C
EPD: CE: 7 \$API: 128 \$TI: 95



LLW Card Merit 03H
By TL Ledger
EPD: CE: 10 \$API: 113 \$TI: 72



TL Ledger 106D

By Profit

EPD: CE: 11 \$API: 114 \$TI: 70



GCC New California 131J By GEFF County O EPD: CE: 3 \$API: 91 \$TI: 64



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EPD: CE: 13 \$API: 140 \$TI: 82



LLSF Favored One H98
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EPD: CE: 7 \$API: 128 \$TI: 95



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EPD: CE: 7 \$API: 121 \$TI: 75



WHF/JS/CCS Double Up G365
By W/C Double Down
EPD: CE: 11 \$API: 108 \$TI: 74



TJ 50K 485H

By TJ Teardrop

EPD: CE: 11 \$API: 158 \$TI: 88



W/C Style 69E

By Style 9303

EPD: CE: 15 \$API: 131 \$TI: 68



Mr Ishee Triple Trailblazer 018H By KOCH Big Timber 685D EPD: CE: 14 \$API: 145 \$TI: 81



HRCC Hondo 035

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EPD: CE: 13 \$API: 115 \$TI: 79



CDI Innovator 325D

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Feedlot Trends

in Management and Productivity

by Derrell S. Peel, Oklahoma State University Extension Livestock Marketing Specialist

Feedlot production continues to develop and reflect changes in cattle genetics and feeding technology and management. This article summarizes trends in production and productivity in Kansas feedlots over the last 15 years.

The data is from the Focus on Feedlots survey

compiled by Kansas State University. Figures 1–6 depict data as 12-month moving averages, which smooths month-to-month and seasonal variation to focus on underlying trends. This article focuses on steers, but data on heifers indicates similar trends over time.

Figure 1 shows how feedlot placement and finishing weights have changed over time. Average final weights the last twelve months have been 1,419 pounds, up 80 pounds from the average final weight in 2010. Average initial weights have been lower in recent years, averaging 757 pounds the last year, and down by 43 pounds from the 2010 level. Both initial and final weights are impacted by cyclical variation in cattle numbers and by feed costs.



The gap between initial and final weights means that the amount of cattle gain occurring at the feedlot has increased over time. Figure 2 shows the increasing amount of total feedlot gain over time. Total feedlot gain currently averages 123 pounds more than in 2010. About two-thirds of the increase in total feedlot gain is due to increased final weight, with the remaining one-third due to lighter placement weights.



Feedlot cattle achieve more total gain now than before due to increased days on feed. Figure 3 shows that average days on feed has increased significantly in recent years to a current average of 187 days, up by 39 days from 2010. More days on feed means that the resulting feedlot turnover rate has decreased from 2.46 in 2010 to 1.95 currently. This means that feedlots can now finish slightly less than two sets of steers per year, or in other words, feedlots can maintain feedlot capacity while producing fewer animals per year.

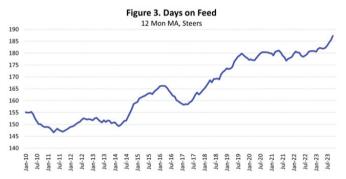
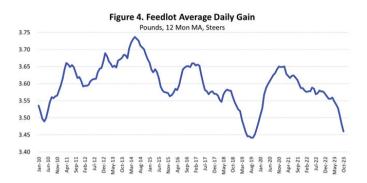


Figure 4 shows that average animal performance is quite variable over time. Average daily gain (ADG) is very seasonal and is impacted by weather, placement weight, feed markets, and cattle cycles, in addition to long-term trends. Feedlot ADG appears to have generally decreased since the peak in 2014. Most relevant to the current situation is the sharp drop in average daily gain in the past 12 months. Since late 2022, the 12-month moving average of ADG has decreased by 3.4 percent to a current level of 3.46 pounds per day.





The feed/gain ratio, along with ADG, are the two most important economic indicators of feedlot profitability. Figure 5 shows that feed efficiency in feedlots has declined over time with the feed/gain ratio trending higher. Feedlot feed efficiency is impacted by the same list of short- and long-term factors that affect ADG. The average feed/gain ratio has increased sharply in the past year with the current feed/gain ratio at 6.33, up 2.8 percent from one year ago.

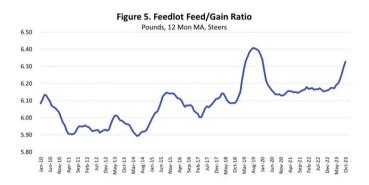


Figure 6 shows the concerning trend of higher feedlot death loss over time. The most recent 12-month average steer death loss rate is 1.93 percent, up 56 percent from the 2010 level.



Feedlot productivity and management combine with underlying feed market conditions to determine feedlot cost of gain. Figure 7 shows the monthly feedlot steer cost of gain. After peaking at a record level of \$149/cwt. in March 2023, cost of gain is declining with lower corn prices, to the most recent October level of about \$133/cwt.



Editor's note: This article originally appeared in the Oklahoma State University's Cow-Calf Corner newsletter.

SI





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*USMARC, Zimmerman, M., et al., "Breed and heterotic effects for mature weight in beef cattle," J. of Anim. Sci., Vol. 99, 2021. Adjusted for sire sampling, Angus was the heaviest at maturity among the 16 breeds evaluated. Solutions are deviations from Angus. YW EPDs were extracted from genetic evaluations conducted in 2019. Estimate of MWT differences at 6 years of age. The study considered 108,857 weight records from 5,156 crossbred cows sired by 787 bulls. Effect of sire breed group on carcass value of feedlot cattle harvested through Tri-County Steer Carcass Flurity Cooperative, Lewis, Iowa, 2002 to 2018. Odde, K. & King, M. (March 2021). Kansas State University. Relationships Among Sire-Breed Group, Calf Sex and Year Group on Carcass Traits. Breeds represented in the English-sired group: Angus, Sed Angus, South Devon, Hereford and Shorthorn.

INDUSTRY UPDATE

Mycoplasma bovis, a Sneaky Invader

by Ronald K. Tessman, DVM, PhD, DACVIM, DACVPM, Beef Cattle Technical Consultant, Elanco Animal Health

Uncovering the elusive nature of *M. bovis* and its impact on feedlot cattle.

Mycoplasma bovis (M. bovis) is a small, pleomorphic bacterium in cattle that commonly affects feedlot cattle. Like other pathogens infecting cattle, M. bovis can have significant implications on processing cattle, productivity, and operational profitability. M. bovis is especially concerning for producers because the bacteria do not have a cell wall, meaning it has a poor response to some commonly used antibiotic therapies.

It can be very difficult to identify when feedlot cattle are infected with *M. bovis* because the bacteria do not immediately trigger an immune response, meaning clinical signs of disease can take a while to appear. The opportunistic nature of the bacteria allows it to grow slowly or even lay dormant until the host's defense mechanisms are compromised, taking the first opportunity to attack the animal's suppressed immune system.

Stress from weaning, transportation, and nutritional transition, coupled with *M. bovis*'s ability to inhibit an immune reaction to fight off infection can lead to a variety of serious, sometimes life-threatening diseases, including:

- Chronic pneumonia
- Myocarditis: A condition that causes inflammation of the heart muscle
- Tenosynovitis: A disease that infects the joints and surrounding tendons causing severe inflammation
- Otitis: An infection of the middle ear caused by severe swelling
- Conjunctivitis: An infection of the transparent membrane that lines the eyelid and eyeball, also known as pinkeye

Although *M. bovis* is most associated with these chronic diseases, more recently, *M. bovis* has been increasingly identified with *Mannheimia haemolytica*, *Pasteurella multocida*, and *Histophilus somni*, common pathogens in the BRD complex, leading to serious and often chronic respiratory disease. More concerning, *M. bovis* can also induce significant respiratory disease in the absence of these primary BRD pathogens.

Pathological Changes

P ure mycoplasma cultures confirm that animals experiencing respiratory disease caused by *M. bovis* will have gross lesions that are often discolored and fibrous. Lungs are firm on palpation and small bb-like abscesses that have combined into a larger mass may be present on one or all lung lobes. Additionally, there will be lobular or lobar consolidation, meaning normally air-filled sacs of the lung are instead filled with bacteria and inflammatory materials. It can be highly variable and often doesn't

correlate with clinical disease severity. Severely ill calves may have little to no lung consolidation.

Transmission

Mycoplasma organisms require special media and growth conditions. *M. bovis* is usually transmitted by direct contact with an infected animal. The pathogen will multiply with no clinical signs and then wait to attack when the host's immune function is suppressed.

Once a calf sheds the pathogen, it can shed for months. However, it is not clear if it is a persistent infection or if it is a repeated clearing and reinfection. *M. bovis* appears to move quickly among cattle by respiratory route when introduced to a naïve group of cattle, leading to a high prevalence of M. *bovis* among newly received feedlot cattle.

Clinical Signs

Cattle infected with *M. bovis* can show clinical signs including nasal discharge, cough, often appear depressed, and may have excessive tearing. Rectal temperatures are often elevated but may be lower than what is associated with other BRD pathogens. In herd outbreaks it is not uncommon for a percentage of animals to present with lameness associated with infectious arthritis or tenosynovitis. They may also have drooping ears with or without a head tilt due to otitis, a middle ear infection.

Diagnosis

Definitive diagnosis of *M. bovis* associated BRD may be difficult. Several mycoplasmas can be cultured from cattle that have been associated with sporadic disease. That's why most recent recommendations have focused on PCR diagnosis. The sensitivity and specificity of these methods are reportedly high. However, we must be careful when using these tests because, most often, the reported sensitivities and specificities are analytical rather than clinical. In most practical cases, diagnosis can be made based on clinical signs, pathological changes, and history.

Treatment and Control

Since *M. bovis* is difficult to diagnose, can cause multiple chronic infections, and responds poorly to antimicrobials, it can be challenging to treat and control. Antibiotics with label indications for *M. bovis* including florfenicol, enrofloxacin, and tulathromycin can be effective tools in treating infections caused by the pathogen when the proper dose is administered at the onset of clinical signs. When using antibiotics, practicing antibiotic stewardship is key. Determining an accurate dosage by weighing calves can help to both ensure efficacy and reduce risk of overuse of antibiotics. Regardless of the antibiotic used, producers should continue to closely monitor calves and follow recommended protocol for re-treatment.

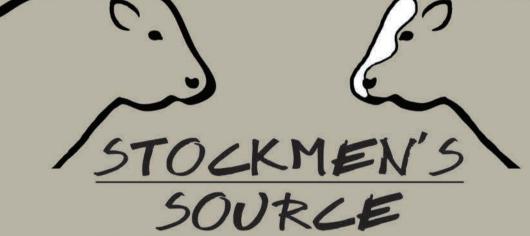
L ike other bacterial infections, proactive management practices and prevention are instrumental for reducing the occurrence and impact of *M. bovis* in feedlot cattle.

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INDUSTRY UPDATE

Vaccinating calves can help build immunity to viruses that predispose to bacterial infection. Taking steps to minimize stress in transport, upon arrival, and throughout transition can play a vital role in supporting the immune system so its defense mechanisms can focus on warding off infection. Producers may also consider categorizing cattle by risk level for disease upon arrival to allow for consistent monitoring and support to mitigate a disease outbreak.

M. bovis is an elusive pathogen. That's why prevention tactics, proper diagnosis, and antibiotic therapy are key for reducing the transmission, colonization, and attack of this pathogen and its impact on cattle health and a producer's bottom line.

Nutrition Requirements of the Cow Herd

by Mark Z. Johnson, Oklahoma State University Extension

As we near the winter months and the time of year when feeding harvested forage becomes the norm in Oklahoma, we address the topic of daily nutritional requirements of the cow herd. Grazing and feed expenses account for about 42%–52% of the input cost of a cow-calf operation. Knowing the nutritional needs of our cows helps us cost-effectively meet their needs.

Overfeeding or underfeeding both rob the profit potential from cow-calf operations. During the normal production cycle, cows should gain some weight/body condition during the dry stages and lose some weight/body condition while nursing a calf. With that in mind, having cows at a BCS 5–6 going into the calving season is optimal. This means that cows are in good shape and have ample energy reserves to draw upon when the "spike" in Crude Protein (CP) and energy (TDN) requirements occur post-calving as the cow begins lactation. Cows need to be in good shape at the beginning of calving season to reduce the rebreeding interval and stay on schedule to breed, calve, and raise a calf to weaning each 12 months.

Assuming we have an ample supply of good-quality water and an adequate vitamin/mineral supplementation program, the two primary nutritional requirements of cows are CP and TDN. In normal weather, there are three primary influences on the daily requirements of both:

- 1. Mature Weight
- 2. Level of Milk Production
- 3. Stage of Production

Where cows are now in the production cycle and when they will start calving should be considered when making management decisions regarding feeding. The example

CONTINUED ON PAGE 36



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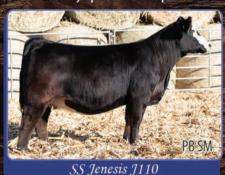
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below follows a 1,300-pound cow through a normal production cycle during the middle trimester of pregnancy, the final trimester of pregnancy, and the first 90 days post-calving based on her level of milk production.

During the middle third of pregnancy, the 1,300-pound mature cow needs:

CP = 1.64 pounds per day

TDN = 11 pounds per day

The same 1,300-pound cow in the final third of pregnancy needs:

CP = 1.84 pounds per day

TDN = 13.3 pounds per day

The increased nutritional needs reflect not only the cow's maintenance requirements but also the increased growth and development of the fetus as calving draws near.

After calving, during the first 90 days of lactation, the same 1,300-pound cow will have increased nutritional requirements based on how much milk she is producing:

If giving 25 pounds of milk per day at peak lactation, she will need:

CP = 3.4 pounds per day

TDN = 19.3 pounds per day

If giving 35 pounds of milk per day, she will need:

CP = 4.2 pounds per day

TDN = 22.2 pounds per day

In summary, the same cow has a dramatic rise and fall in protein and energy needs over the normal production cycle. Knowing these requirements is essential to cost-effective feeding of the cow herd. Managing our nutritional program correctly plays a huge role in reproductive performance.

"One Black Mark"

by Maureen Hanson, Bovine Veterinarian

Liver abscesses continue to be the one black mark in an emerging vein of the dairy industry that otherwise is mostly rosy: beef-cross cattle.

According to the National Association of Animal Breeders (NAAB), units of beef semen sales increased by 260% from 2017 to 2021, largely due to the strategic shift by dairy producers to capture more value for their surplus calves. Those beef-on-dairy-bred calves have been a welcome addition to US feedlots, as the US beef cow herd hit historically low numbers in roughly the same timeframe.

But the challenge of liver abscesses in finished beefcross cattle continues to frustrate feeders and packers. Severe liver abscesses can negatively impact cattle performance in terms of lower body weight, carcass yield, and dressing percentage. They also can cause livers to be condemned at slaughter, and may result in even more condemned tissue if the infection spreads to other organs and tissue. And if a liver abscess ruptures during slaughter, it necessitates stopping the production chain at the packer so equipment can be cleaned and sanitized. This can dramatically affect a plant's daily production yield. In large plants, industry estimates suggest chain stoppage can result in productivity losses of up to \$3,000 per minute.

At the 34th Florida Ruminant Nutrition Symposium, Dr. Tiruvoor Nagaraja, PhD, professor of microbiology at Kansas State University, presented a review of liver abscesses in beef-on-dairy animals, and the industry's knowledge of the issue to date.

Nagaraja said that although no scientific studies have yet been performed to validate the higher levels of liver abscesses in fed cattle with dairy genetics, "there is consensus that the incidence in beef-on-dairy cattle is two to three times greater than crossbred beef cattle."

L iver abscess can range from one to hundreds in a single animal, and vary in size from a pinpoint to more than 15 cm in diameter. So far, no reliable diagnostic tools have been developed to detect them, as both blood tests and ultrasound have failed to reliably identify liver abscesses prior to slaughter.

Nagaraja explained that liver abscess formation is likely the result of "good" bacteria that helps digest feed-stuffs in the rumen escaping to the bloodstream and setting up shop in the liver, where they create infection sites that progress to abscesses.

The overgrowth of the bacteria — the two most common being *Fusobacterium necrophorum* and *Trueperella pyogenes* — is thought to be caused by a highly acidic environment (acidosis) that causes lesions to form on the rumen wall (rumenitis). The bacteria then travel via the bloodstream from the gut to the liver, creating the "acidosis-rumenitis-liver abscess complex."

Why dairy-beef and dairy-cross animals seem to be more susceptible to liver abscesses is not completely understood. But Nagaraja said their increased incidence is associated with the following dietary feeding programs:

- Inadequate roughage in the diet: Diets containing rapidly fermentable grains such as wheat and barley or processed grains like steam-flaked or high-moisture corn.
- Long feeding duration at the feedlot stage: Dietary adjustments to address these contributors could help to lessen the incidence of liver abscesses. Further, Nagaraja said the antibiotic tylosin, fed with veterinary oversight, is the most effective antibiotic to control liver abscesses.

However, concern over the development of antimicrobial resistance, and the desire to reduce antibiotic use in food-animal production, are fueling research in alternative interventions to control liver abscesses. To date, two vaccines have been developed for that purpose,

with one subsequently being withdrawn from the market.

Feeding probiotics and essential oils as feed additives is also being explored. The essential oils limonene and thymol have been shown to successfully inhibit growth of *Fusobacterium necrophorum*. More research continues to potentially solve this compelling issue for both the beef and dairy industries.

Your Cattle Forage Analysis Results Are In: Now What?

Purina

Harvested forages, like hay, are a significant investment for cattle nutrition programs. The USDA currently estimates hay to cost \$209 per ton as of September, up 28.3% from 2011. These prices can vary widely depending on your location and the demand for forage.

No matter your overall cost of buying or baling hay, it is vital to get a grasp on the quality of your forages to know if your cattle are getting what they need. Before you start feeding forage, get it sampled and then create a balanced nutrition program.

"While it can seem like a daunting task, understanding a few key values can make results analysis easier," says Chad Zehnder, PhD, cattle nutritionist with Purina Animal Nutrition.

Here are a few values to pay attention to when you get your cattle forage analysis back:

Dry matter (DM)

Dry matter is the simplest measurement to understand, and it is critical to know. Analysis results should always be viewed on a DM basis to remove moisture variation, especially when comparing values between forage for cattle.

"Dry matter can tell you quite a bit about how forages were harvested and how they may transform

CONTINUED ON PAGE 38





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during storage," says Zehnder. "You'll also know your risk for mold and yeast growth."

Crude protein (CP)

Crude protein is a calculation of nitrogen content multiplied by 6.25. In most cases, CP can be used to balance protein in cattle feed rations.

"Stored cattle forage that has undergone significant heating is an exception. In this instance, the analysis should account for bound protein or unavailable protein, defined as ADF-CP, where ADF is acid detergent fiber. This value is used to report available crude protein (ACP), which can be used to balance cattle feed rations for protein," says Zehnder.

Energy content

Values used to interpret energy content are often the most confusing. The only real determination of a feed's energy value is through feeding trials. Therefore, forage energy is estimated based on measurable values in a feedstuff.

"ADF and neutral detergent fiber (NDF) are laboratory procedures used to predict forage digestibility and intake potential," says Zehnder. "Forage intake potential decreases as forages mature and NDF fractions increase. Likewise, cattle forage digestibility decreases as ADF fractions increase."

ADF content is the best laboratory measurement of forage energy value. ADF is used in prediction formulas to calculate energy value expressed as net energy gain (NEg) and net energy maintenance (NEm). These values can be used to balance cattle feed rations for energy requirements.

"Relative feed value (RFV) is often reported and considers forage dry matter digestibility and dry matter intake," says Zehnder. "RFV is not used to balance diets but can be useful in comparing multiple lots of hay or to get a basic idea of forage quality."

Minerals

Consider macromineral content (Ca, P, K, and Mg). Concentrations can vary, but knowing forage macromineral content can help estimate supplementation requirements; for example, if you've experienced winter tetany in the past and want to estimate magnesium supplementation needs.

While macromineral analysis can be helpful, micromineral analysis is more expensive. It's also difficult to get a representative sample of microminerals because forage content varies by field and season.

"That's why providing quality mineral year-round is important, so you ensure your cattle are receiving the nutrients they need," says Zehnder.

Final thoughts

A good rule of thumb for balancing a cow ration is to aim for the following daily nutrition requirements for a 1,400-lb. cow during the middle of pregnancy on a dry matter basis:

- 23 lbs. of DM
- 7.1% CP
- 0.44 Mcal/lb. of NEm
- 0.19% calcium (Ca)
- 0.15% phosphorus (P)

These values will need to be adjusted based on a variety of factors, including animal age, stage of production, current body condition, animal size, environment, etc.

"Well-interpreted results can be used to fine-tune cattle diets, meet cattle requirements, and optimize performance. But don't interpret alone," says Zehnder.

B ring your feed supplier, nutritionist, and agronomist to the table. A whole-farm approach can help determine the best way to use your cattle forage today and help you raise better forages in the future.

Tyson Leaving "No Stone Unturned" in Plans to Cut Costs, Improve the Business

by Nathan Owens, Agriculture Dive

The nation's largest meat packer reported its third consecutive loss as it trudges through a period of margin compression driven by tighter supplies, lower pricing, and soft demand.

Despite lackluster earnings results, leadership was upbeat, saying income has improved from the previous quarter and Tyson is headed in the right direction as the company focuses more of its efforts on food service.

President and CEO Donnie King highlighted improvements in the chicken segment, which has been weighed down by high grain and input costs, as well as solid results from Tyson's prepared foods segment. He also noted various challenges in the beef and pork segments that have affected profit margins.

Cattle supplies continue to be tight as the industry patiently waits for herds to rebuild, which has moved prices higher. Meanwhile, the pork industry is working through supply-demand imbalances with signs of improvement as grain costs decline.

"Despite these headwinds, our goal remains to be best-in-class operators, so that we can manage these businesses as efficiently as possible. We remain focused on what we can control," King said in the earnings call.

This year has been challenging for Tyson, Smithfield, JBS, and other meat companies due to volatile prices and soft consumer demand, resulting in consecutive losses and a number of operational closures and consolidations.

So far, Tyson has closed six of its "older, less efficient plants" to better manage its chicken processing capacity, King said, and will bring "two smaller fresh meats caseready, value-added facilities offline" to "leverage efficiencies and reduce network redundancies."



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"We will continue to evaluate our production footprint and network to drive efficiencies," King said.

Looking ahead, Tyson is expecting input cost improvements to have a positive impact on the business next year.

In fiscal 2023, the company generated sales of \$52.9 billion, down less than 1% from the previous year. It also recorded an operating loss of \$395 million over the past 12 months. Adjusted income was \$933 million, down 79% from the previous year.

Tyson's fourth quarter earnings were mixed on Wall Street, with adjusted income beating analyst expectations as sales dipped during a rocky market backdrop, according to a Zacks Consensus Estimate.

Pros and Cons of Using Darts to Treat Cattle

by Rhonda Brooks, Bovine Veterinarian

Whether you are for or against the use of darts remote drug delivery (RDD) devices — to administer pharmaceutical products to cattle, the tools have gained traction in livestock production practices over the years and are likely here to stay.

In a survey *Bovine Veterinarian* conducted this past summer, 369 veterinarians and producers weighed in to

share their preferred ways to treat cattle on pasture. Respondents ranked their preference for using darts second only to walking the animals to a nearby barn or facility for treatment. The latter was preferred by only a slim margin: 128 votes to 124 votes.

Survey participants' votes for the other treatment options presented included trailering to a facility (47), roping (64), or doing nothing (6).

A study by USDA, completed in 2017 and updated in March 2023, found a range of use among cow-calf operations across the country. As a positive, the study noted, "pneumatic darts can be used to administer antibiotics and other injectable medications to cattle to reduce the need to run animals through a chute or use other immobilization practices such as roping."

Use of the darts varied considerably by size of operation. During a 12-month period, USDA found that "4.3% of small, 15.8% of medium, and 32.8% of large operations used at least one pneumatic dart to deliver injections. Across all cow-calf operations, 8.1% used at least one pneumatic dart to deliver injections. Overall, 1.1% of cattle were injected with pneumatic darts (data not shown), and this percentage did not differ substantially by herd size."

The USDA summary offers one of the key risks associated with using RDDs: "There is risk that the intended

CONTINUED ON PAGE 42



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4204978 - HOMO BLACK, HOMO POLLED BW - 83 ADJ WW - 695 CDI MAJOR IMPACT 280H x CDI MADE RIGHT 353B

target may be missed with a pneumatic dart and instead hit a location that could compromise an animal's welfare. Because of this, and other reasons, the Beef Quality Assurance (BQA) program has an advisory statement against the use of pneumatic darts."

Is Dart Use Ever Advisable?

Josh Newton's perspective is RDDs are just one more tool in the toolbox that can help ensure sick cattle get the treatment they need.

"I think veterinarians and producers find the value in an RDD because it empowers them to deliver various medications at a distance safely and effectively to those animals in need," says Newton, cervid livestock division

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manager for Pneu-Dart, Inc., based in Williamsport, Pennsylvania. The 50-plus-year-old company provides a variety of RDD systems for livestock producers, wildlife managers, and conservationists.

"(An RDD) can be used for a variety of different products and situations," Newton says. "I try to tailor it for specific cases. My number one (use) is for capture work or sedation when you need to restrain the animal's movement and no facility is available to do that."

Along those same lines, South Dakota State University Extension says the use of RDDs can be a good option when there are safety considerations for people and animals.

Newton adds: "When there's a better treatment option for the animal that doesn't involve remote delivery, that's the right way to go."

Pneu-Dart offers a variety of training videos and other resources on how to use RDDs via its website at https://www.pneudart.com/

"Just Don't Do It"

Some veterinarians believe the use of RDDs is never a good idea. "Darting is a no-go for me because there's too many foreign objects found (once the cattle reach) packing plants," says Brian Lubbers, DVM and associate professor of food animal therapeutics outreach at Kansas State University.

"From a pharmacology perspective, I can't be assured the product is actually getting into the animal," Lubbers adds.

Lubbers' colleagues, Drs. Bob Larson and Brad White, respectively, are in agreement with him. Their preference, they said during a recent BCI Cattle Chat podcast, would be to trailer or walk the animal to a nearby facility or location for treatment.

Dee Griffin, DVM, MS, sought to discourage the use of RDDs during his presentation at the 2020 American Association of Bovine Practitioners (AABP) conference. He offered three concise words of advice: "Don't do it."

CONTINUED ON PAGE 44

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CONTINUED

A handful of the reasons Griffin cited for why he recommends not using darts to treat cattle included that:

- Not all darts comply with FDA medication use requirements or BQA medication use requirements.
- Some darts and/or dart components are confirmed to have been found in carcasses at packing plants.
- There are confirmed reports of injection site abscesses from medication dart usage. These are likely caused by using unsterile darts and/or contamination while filling the dart with medication.
- Confirmed fatal cases of phlegmonous cellulitis have occurred from contaminated needles.
- There are confirmed reports of violative drug residues being traced to medication dart usage.

Best Management Practices and Considerations

For veterinarians looking to help producers do the best job possible using RDDs, consider the questions and information posted in a 2019 article written by then Utah State University veterinarians, David J. Wilson and Kerry Rood:

Is the drug delivered to the correct tissue as labeled (e.g., SQ or IM)? Using remote delivery may not ensure proper placement of medication by route. It would be best to use a product that has both a SQ and IM label.

Is the injection site recommended by BQA? When administering medications by darts, accurate placement into a small space takes practice and some operator skill. Some producers might be tempted to target injection sites that are not recommended by BQA.

How sure can the producer or veterinarian be that foreign objects such as broken needles do not embed in the tissues? Carefully check equipment to ensure that microcracks or defects are not appearing in the needle or syringe. Also, needles may develop a burr, which may contribute to abscess formation.

Does the dart have adequate volume to inject the dose needed? Carefully review the volume that is required for the different medications intended for delivery by dart. The volume required may exceed the single dart capacity and require multiple dartings.

Want More Calves Born in Daylight? Feed the Cows at Night

by Rhonda Brooks, Bovine Veterinarian

Feeding expectant beef cows at sunset or later results in more calves being born in daylight. That's a benefit anytime of the year and especially during spring calving season when weather conditions are often harsh.

CONTINUED ON PAGE 46





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"Calving during daylight means calves are born during times of warmer temperatures, cows calving are easier to find and provide assistance to if needed, and accordingly, more calves saved and alive," reports Mark Johnson, Oklahoma State University Extension beef cattle breeding specialist, in an online bulletin.

The concept of nighttime feeding was introduced by a Manitoba rancher, Gus Konefal, in the 1970s. He found that 80% of his cows calved between 7 AM and 7 PM when they were fed later in the day. Konefal's method included two feedings per 24-hour period, with the first feeding between 11:00 AM and noon and a second feeding between 9:30 and 10:00 PM.

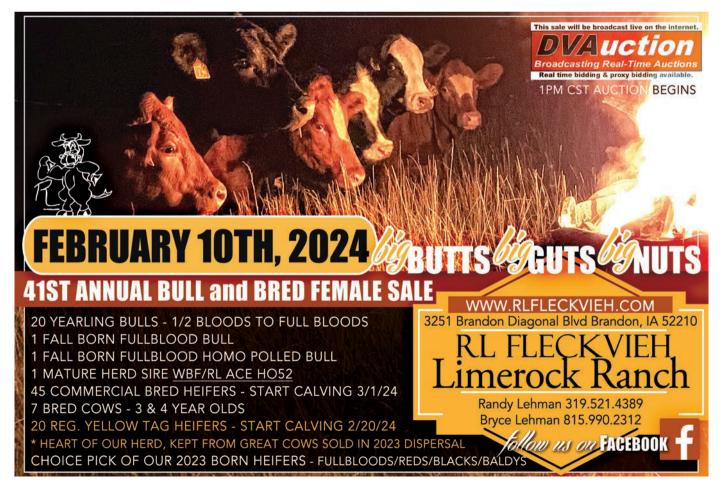
Research at Iowa State University found similar results, according to Johnson. He reports that in one of the largest trials conducted, involving 1,331 cows on 15 Iowa farms, cows were fed once daily at dusk. The result: 85% of the calves in those herds were born from 6:00 AM to 6:00 PM.

Scientists haven't confirmed why the nighttime feeding practice works, but the predominant theory is that it contributes to a hormonal effect that puts pressure on the cow's rumen.

Adele Harty, a former South Dakota State University Extension cow/calf field specialist, offers some pointers to help make the Konefal method more successful:

- Research indicates that for this method to be most effective, it should be started one month prior to calving, but shorter duration before the start of calving will still have some effect.
- Iowa State advises staying as close to the same feeding schedule and feed amount as possible each day. Deviating more than 15 minutes or providing too much feed will yield less desirable results.
- Maintain regular night checks. Konefal calving may simply mean that there will be less work to be done between checks due to fewer calves born during the night.
- It works best in a drylot situation where all feed is provided. Desired effects in a grazing situation may not be seen unless supplemental hay or timing of grazing can be regulated.
- Weather can play a role in effectiveness. Before or during storms, cattle may not come to the bunk to eat and may be more likely to calve at night.
- Additional research indicates that a first-calf heifer that calves during the day will tend to calve during the remainder of her productive years.

CONTINUED ON PAGE 48





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UN Agency to Suggest Global Meat Consumption Reduction

The Food and Agricultural Organization (FAO) of the United Nations is preparing to release a series of reports that include a recommendation that the West — including the United States — lower meat consumption as part of global sustainability efforts.

FAO released the reports spotlighting the role of agrifood systems in boosting sustainability at the UN Climate Change Conference COP28 that took place November 30 in Dubai in the United Arab Emirates.

"The climate and food crises are inseparable. Investing in agrifood systems and rural areas creates the concrete solution to address the impacts of the climate crisis," Director-General Qu Dongyu said in a news release announcing the program's goals.

The COP28 climate summit also featured the FAO's first-ever document that recommended that nations that "over-consume meat" limit consumption to help blunt the effects of climate change, according to the release.

The FAO initiatives are based on the agency's position that the agrifood sector contributes one-third of greenhouse gas emissions that contribute to climate change in a world where an estimated 735 million people are currently facing hunger.

New Program to Support Native American Farmers with Climate-Smart Grazing

Farm Journal Foundation and the Intertribal Agriculture Council (IAC) are launching a new program to support climate-smart grazing practices among Native American cattle farmers and ranchers.

The program, which will work in partnership with Ecosystem Services Market Consortium (ESMC) and the Yield Lab Institute, will offer a combination of direct incentive payments, technical assistance, and education to producers who adopt certain conservation practices on their grazing lands. It will also better enable Native American cattle producers to participate in carbon and branded commodity markets and create pathways to join US Department of Agriculture conservation programs. This new program, developed through support from the USDA's Partnerships for Climate-Smart Commodities initiative, officially launched at IAC's Eastern Oklahoma and Southern Plains Regional Summit.

"We are at a critical moment with pressing climate issues that not only impact each of us globally but have meaningful consequences for the original land stewards of this country," said Kari Jo Lawrence, Chief Executive Officer of IAC. "Our partnership with Farm Journal Foundation not only furthers IAC's mission-driven work with Tribes and Tribal producers nationwide, it

offers climate-smart benefits with increased opportunities for economic growth in Indian Country."

Enrollment is now open for this three-year project, which will provide approximately \$1 million in direct funding to producers to enable them to implement one or more designated climate-smart conservation practices. The program will work with Native American producers in three states — Florida, Montana, and Oklahoma — whose primary source of business income comes from beef cattle farming. Both small-scale and large-scale producers are encouraged to apply.

The program will incentivize the adoption or expansion of a variety of practices, including adopting prescribed grazing, establishing fencing and watering facilities, planting native or perennial seeds, pasture and hay planting, and other work. In addition, producers who join the program will have access to in-person, location-based technical assistance for beef grazing and production, classroom-based learning events, online training, and web-based resources such as educational video content.

"We are excited to launch this new program that will put Tribal producers at the forefront of climate-smart agriculture," said Tricia Beal, Chief Executive Officer of Farm Journal Foundation. "Native American producers, including both small-scale and large-scale farmers, are fierce stewards of the land, and this work will recognize the benefits of traditional Tribal grazing and increase access to conservation incentives to expand the use of sustainable practices."

Historically, Native American producers have faced barriers when trying to access USDA programs due in large part to the complex relationship between the US federal government, Tribal nations, and individual Native American farmers and ranchers. In some cases, this has inhibited the development of conservation infrastructure and economic growth for Tribal Nations. Approximately 75% of farms managed by American Indians and Alaska Natives specialize in livestock production, often excluding them from programs prioritizing crop-side incentives.

In addition, this new program will enable Native American producers to get credit for their conservation practices by creating pathways to connect with carbon markets. ESMC will provide support to validate farmers' greenhouse gas emission reductions, soil carbon sequestration, and other environmental benefits generated from this project.

Senior Project Manager Jake Deutmeyer, who is leading ESMC's participation, noted, "This program is an exciting opportunity for ESMC to expand into areas beyond traditional row-crop systems to showcase the beneficial impact that Native American livestock systems have on landscapes across the country. We can document the improved outcomes in our science-based,

standards-based Eco-Harvest program and monetize the outcomes to benefit these producers. The opportunity to participate in this program also ensures that Eco-Harvest is inclusive to as many types of producers as possible — especially those that have been traditionally left out of agricultural market programs."

The goal of this project is to create lasting benefits both for Native American agricultural livelihoods, as well as the land and environment. To help ensure long-term impact, the Yield Lab Institute will map the propensity for adopting climatesmart farming practices within Native American communities, creating an analysis tool that can be used to determine where conservation efforts can be expanded in the future.

"We are extremely excited to launch this important project for livestock farmers, particularly those in Native American tribes and communities," said Brandon Day, Chief Operating Officer of the Yield Lab Institute. "The deliverables, the mapping analysis and tool, we hope will serve as a resource for Native American livestock producers to measure, validate, and monetize the value that they create. As a global agtech think tank, we will deploy our methodology and technology portfolio to do just that."

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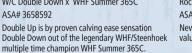
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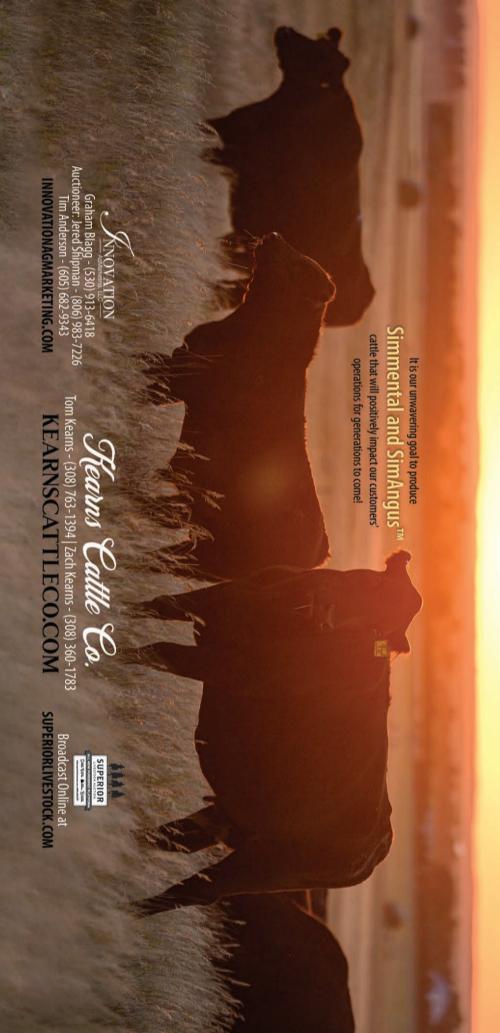


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CE BW WW YW MCE Milk MWW API TI
10.7 2.6 85.3 128 6.5 28.3 70.7 127 80



MRL Discovery 21A x GW-WBF Substance 820Y
BD: 2-14-23 BW: 96 WW: 784
CE BW WW YW MCE Milk MWW API TI
10.2 1.8 75.8 122 8.2 20.0 57.7 120 76



CCR Wide Range 9005A x MRL Discovery 21A
BD: 2-9-23 BW: 80 WW: 876
CE BW WW YW MCE Milk MWW API TI
11.9 1.4 87.2 136 7.0 18.7 62.1 137 83



MRL Discovery 21A x Connealy Right Answer 746
BD: 2-18-23 BW: 97 WW: 964
CE BW WW YW MCE Milk MWW API T
10.7 1.7 76.9 125 7.8 24.8 62.8 126 7



TJ Gold 274G x GW-WBF Substance 820Y
BD: 2-7-23 BW: 90 WW: 869
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FEBRUARY 7TH, 2024 1PM CST @ THE RANCH - KINTYRE, ND

65 RED & BLACK SIMMENTAL BULLS - SELECET FEMALE & EMBRYO LOTS

PRE-SALE VISITORS ARE ALWAYS WELCOME & RECEIVE \$100 OFF A BULL PURCHASE VOLUME DISCOUNTS & BEGINNING RANCHER DISCOUNTS



WATCH FOR OUR UPCOMING WINTER EMBRYO SALE ON SCONLINE MID JANUARY!



LCDR 166L API: 140 TI: 97 Homo Black Homo Polled PB Impact x LCDR Ms Eleonora 41E



LCDR 153L API: 172 TI: 96 Homo Black Homo Polled ¾ SM Fireproof x LCDR Ms Gia 5G



LCDR 163L API: 161 TI: 106 Homo Black Homo Polled PB SM Innovator x WS Miss Sugar C4



LCDR 167L API: 180 TI: 86 Red Homo Polled PB Net Income x CDI Miss Verdict 172C



LCDR 174L API: 161 TI: 91 Red Homo Polled PB Captivate x LCDR Ms Joyride 63J



LCDR 295L API: 165 TI: 97 Red Homo Polled PB Captivate x CDI Miss Abundance 42E



LCDR 157L API: 180 TI: 103 Homo Black Homo Polled ¾ SM Homeland x WS Miss Sugar C4



LCDR 161L API: 152 TI: 91 Homo Black Homo Polled PB Need4Speed x WS Miss Sugar C4



LCDR 154L API: 153 TI: 98 Homo Black Homo Polled PB Need4Speed x LCDR Ms Joy 17J

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LCDR Ms Lizbeth 67L API: 163 TI: 99 Homo Black Homo Polled 5/8 SM Homeland x HHS Miss 836Z



LCDR Ms Lian 42L API: 143 TI: 99 Homo Black Homo Polled PB Impact x LCR Ms Jennifer 18J



LCDR Ms Lena 26L API: 154 TI: 95 Red Homo Polled PB Captivate x LCDR Ms Danika 40D

Selling Choice of the 63 j and 802 G Captivate daughtery



LCDR Ms Lexi 35L API: 162 TI: 90 Red Homo Polled PB Captivate x LCDR Ms Joyride 63J



LCDR Ms Lark 94L API: 160 TI: 96 Red Homo Polled Purebred Captivate x HHS Georgia 802G



LCDR Ms Lindy 92L API: 155 TI: 91 Red Homo Polled PB Captivate x HHS Georgia 8026



LCDR Ms Lydia 10L API: 178 TI: 100 Homo Black Homo Polled ¾ SM Homeland x WS Miss Sugar C4



LCDR Ms Lyla 11L API: 178 TI: 98 Homo Black Homo Polled ¾ SM Homeland x WS Miss Sugar C4



LCDR Ms Lane 66L API: 181 TI: 103 Homo Black Homo Polled ¾ SM Homeland x WS Miss Sugar C4

Selling Choice of the Innovator/Need4 Speed x Sugar daughters



LCDR Ms Londyn 20L API: 174 TI: 104 Homo Black Homo Polled PB Innovator x WS Miss Sugar C4



LCDR Ms Leah 14L API: 177 TI: 98 Homo Black Homo Polled PB Need4Speed x WS Miss Sugar C4



LCDR Ms Lia 21L API: 178 TI: 103 Homo Black Homo Polled PB Need4Speed x WS Miss Sugar C4

EPDS 12/15/23

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2.28.24 CO RANCH 1PM CST DAWSON ND



CDI 17L Homo Polled Homo Blk PB SM CDI Jericho 291J x CDI Miss Warden 11E

7 3.0 90 143 4 25 0.37 0.87 —— ASA# 4279622 API 142 TI 90



CDI 34L Homo Polled Homo Blk PB SM CDI Jericho 291J x CDI Miss Taylormade 75C

CE BW WW YW MCE MM MARB REA 6 4.2 88 144 4 29 0.54 1.10 ASA# 4279656 API 163 TI 93



CDI 95L Homo Polled PB SM
CDI Abundance 391C x CDI Ms Trustee 40J

CE BW WW YW MCE MM MARB REA 9 4.3 93 150 6 33 0.43 1.35 — ASA# 4279766 API 145 TI 94



CDI 32L Homo Polled PB SM CDI Abundance 391C x CDI Ms Trustee 40J

9 4.3 93 150 6 33 0.43 1.35 —— ASA# 4279652 API 145 TI 94



CDI 137L Homo Polled Homo Blk PB SM CDI Jericho 291J x CDI Ms Legendary 1F

9 2.7 90 138 5 30 0.56 0.78

—— ASA# 4279833 API 162 TI 95



CDI 33L Homo Polled Hetero Blk PB SM CDI Nazareth 298J x CDI Ms Lincoln 83G

CE BW WW YW MCE MM MARB REA

13 2.2 93 143 3 23 0.53 0.96

ASA# 4279654 API 165 TI 98



CE BW WW YW MCE MM MARB REA

9 4.3 93 150 6 33 0.43 1.35 CDI Abundance 391C x CDI Ms Trustee 40J

CDI 65L

ASA# 4279718 Homo Polled PB SM API 145 TI 94

> CDI 86L ASA# 4279756 Homo Polled PB SM API 151 TI 94



CE BW WW YW MCE MM MARB REA

7 1.9 89 138 4 33 0.44 1.33 CDI Abundance 391C x CDI Ms Trustee 49J



CDI 67L Homo Polled PB SM



CDI 714L Homo Polled Homo Blk 3/4 SM



CDI 81L Homo Polled PB SM Rockin H Captivate J75 x CDI Miss Hometown 163C BCLR Manifesto G352 x CDI Ms Firesteel 138J Rockin H Captivate J75 x CDI Miss Hometown 163C

CE BW WW YW MCE MM MARB REA 15 -2.5 87 132 8 30 0.07 1.14 ASA# 4279722 API 144 TI 90



CE BW WW YW MCE MM MARB REA 14 0.6 89 134 7 30 0.11 1.14 ASA# 4279744 API 133 TI 88



CDI 709L Homo Polled Homo Blk PB SM Hook's Galileo 210G x CDI Ms CEO 36G



CDI 57L Homo Polled PB SM Rockin H Captivate J75 x CDI Ms Trustee 40J



CDI 122L Homo Polled Homo Blk PB SM Hook's Galileo 210G x CDI Ms Impact 8J

CE BW WW YW MCE MM MARB REA 11 0.4 89 138 9 35 0.82 0.89 ASA# 4279684 API 185 TI 105

CE BW WW YW MCE MM MARB REA 15 1.6 94 139 8 29 0.16 1.19 ASA# 4279708 API 145 TI 91

CE BW WW YW MCE MM MARB REA 14 -0.8 91 138 10 32 0.74 0.71



CDI 51L Homo Polled PB SM Rockin H Captivate J75 x LCDR Ms Cassidy 516C



CDI 130L Homo Polled Homo Blk PB SM LCDR Affirmed 212H x CDI Ms Trustee 85H Rockin H Captivate J75 x LCDR Ms Cassidy 516C



CDI 84L Homo Polled PB SM

CE BW WW YW MCE MM MARB REA 16 -1.5 73 100 9 30 0.33 1.01 ASA# 4279697 API 155 TI 86

CE BW WW YW MCE MM MARB REA 16 -1.2 85 126 8 30 0.64 079 ASA# 4279816 API 179 TI 99

CE BW WW YW MCE MM MARB REA 16 -0.9 86 122 8 30 0.40 1.05 ASA# 4279752 API 165 TI 95



CDI 126L Homo Polled Homo Black PB SM CDI Rush 261H x CDI Ms Impact 28H ASA# 4279810



CDI 115L Homo Polled PB SM ASA# 4279794



CDI 149L Homo Polled Homo Blk PB SM Rockin H Captivate J75 x CDI Ms Xpect 42J KBHR Honor H060 x CDI Ms Redeemed 45J ASA# 4279860

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MSA Members Bull and Private Treaty Sales

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Date	Ranch/Sale	City	Phone
01/12/24	Diamond Bar S	Great Falls	406-467-3303
02/05/24	Gateway Simmental Breeding Value Bull Sale	Lewistown	406-538-9695
02/06/24	Little Bitterroot Ranch	Hot Springs	406-741-2523
02/07/24	Begger's Diamond V Ranch Genetic Source Bull Sale	Wibaux	406-796-2326
02/08/24	Lassle Ranch Simmental – Annual Bull Sale	Glendive	406-486-5584
02/12/24	Nelson Livestock Company Annual Production Sale	Wibaux	406-588-3371
02/13/24	Edge of the West Sale	Mandan	701-453-3105
02/19/24	Bulls of the Big Sky Bull Sale	Billings	208-267-2668
02/24/24	Emmons Ranch	Olive	406-436-2277
3/4/24	Hill's Ranch Production Sale	Stanford	406-566-2479
03/15/24	Black Summit Cattle	Powell, WY	307-899-3553
May 2024	Nelson Ranch Production Auction	Glasgow	406-367-5261
12/07/24	Western Choice Simmental Sale	Billings	208-267-2668
Private Treaty	Walking 5 Ranch	Broadview	406-667-2251
Private Treaty	99 Bar Cattle	Alzada	605-101-1280
Private Treaty	3 JM Simmental	Payette, ID	208-731-6646
Private Treaty	3H Simmental	Plains	406-826-3765
Private Treaty	Wichman Ranch Feeder Calves	Moore	406-350-0127
Private Treaty	Maloney Angus & Simmental	Turner	406-654-7115
Private Treaty	Sunny Slope Ranch	Fairfield	406-590-7984
Private Treaty	Koch Cattle	Roberts	406-860-0659
Private Treaty	Shane and Kate Koch	Molt	406-580-7458
Private Treaty	Wang Ranch	Baker	406-778-3672
Private Treaty	Rocking L 4 Ranch	Bonners Ferry, ID	208-691-6656

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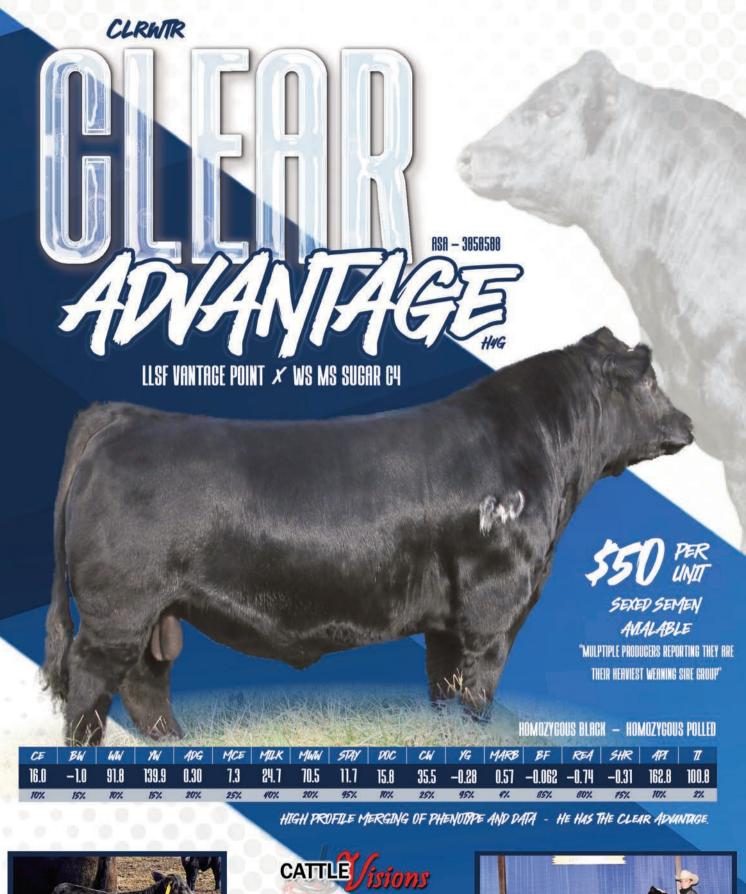
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50 direct progeny of RFS Heavy Hitter H45 will sell! This unique SimAngus™ breeding piece is a son of the clone to the \$8.6 million producing S A V Blackcap May 4136!



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This homozygous polled three-quarter blood blaze faced herd bull prospect by OMF Jester J47 is one of the best to ever walk the ground of W/C!



W/C BEEF KING 6038L ASA: 4280949 • 3/4 SM W/C BEEF KING 1025F X W/C MISS WERNING 90G

An incredible red hided herd sire prospect that offers unparalleled quality and eye appeal! A sale feature on February 13!



W/C INNOVATOR 3354L ASA: 4281060 • PB SM W/C INNOVATOR 533H X W/C MISS WERNING 978G

One of several performance standouts that will sell! This homozygous black and polled Purebred ranks top 5% ADG; 10% YW, REA, TI; 15% WW; 20% Marb: 25% API.



W/C TRIPLE THREAT 1056L ASA: 4281003 • 5/8 SM 3/8 AN BAR CK 4118B 8102F X W/C MISS WERNING 1056J

Sired by the calving ease specialist, "Triple Threat", this low birth weight herd bull prospect is supported by the influence of a first calf heifer by the \$750,000 S A V President 6847!



W/C PANDEMIC 141L ASA: 4281053 • 5/8 SM TRCC PANDEMIC X RAB MS MARTY Y9207

The first progeny sired by the \$300,000 TRCC Pandemic to be offered! Backed by the tried and true Y9207 donor dam!

43RD ANNUAL PRODUCTION SALE

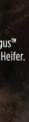
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130 YEARLING BULLS | 40 AGE ADVANTAGE BULLS 115 REGISTERED BRED HEIFERS | SEMEN & EMBRYOS



W/C RITA 203K ASA: 4122784 • 1/2 SM W/C BANKROLL 811D X EXAR RITA 5406

A FULL SISTER to the \$164,000 high selling SimAngus™ female that was the 2019 NAILE Supreme Champion Heifer. Safe in calf to "Triple Threat"!





W/C MISS WERNING 261K ASA: 4121187 • PB SM RFS HEAVY HITTER H45 X MISS WERNING 174Y

A homozygous black and polled Purebred that is supported by 174Y, a FULL SISTER to the iconic 8543U!

Safe in calf to TSN Statesman K006.



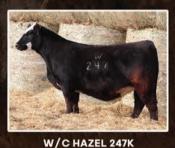
W/C MISS WERNING 218K ASA: 4121098 • 3/4 SM W/C BANKROLL 811D X RAB MS MARTY Y9207

This stunning red baldy daughter of the iconic W/C Bankroll 811D is from the Y9207 cow family! Safe in calf to KBHR Sniper J079!



W/C MISS WERNING K241 ASA: 4300905 • 3/4 SM W/C BANKROLL 811D X RAB MS MARTY Y9207

One of the best bred females we have offered to date! An elite look of quality with the extra "bells & whistles"! Safe in calf to MR SR 71 Right Now E1538.



ASA: 4121157 • 5/8 SM W/C NEED 4 SPEED 1016H X W/C MISS WERNING 735E

247K is an exceptional female that offers extra mass and dimension. She is from one of the most reliable cow



W/C MISS WERNING 271K ASA: 4121221 • PB Sm RFS HERALD H104 X W/C RJ MISS 8544 6101D

Hard to find outcross red genetics with superior EPD profile. Her dam is a full sister to W/C Executive Order 8543B! Safe in calf to KBHR Sniper J079.



W/C MISS WERNING 2014K ASA: 4300836 • 1/2 SM

S A V RAINFALL 6846 X W/C MISS WERNING A343

A daughter of the industry leading S A V Rainfall 6846 that is supported by the great W/C Miss Werning A343. Safe in calf to W/C Trifecta 975G!



W/C MISS WERNING 2317K ASA: 4300833 • PB SM

W/C VIP 005G X W/C MISS WERNING 793E

This eye appealing female is supported by two shots of the legendary Miss Werning KP 8543U. Safe in calf to MR SR 71 Right Now E1538!



W/C MISS WERNING 2335K ASA: 4194288 • 3/4 SM

W/C HOC HCC RED ANSWER 33B X W/C MISS WERNING 909G

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G65L ASA 4260366 SIRE: FIVE STAR JACKSON J10 CE 18 • YW 123 • MARB 0.37 • RE 1.05 • \$API 159 • \$TI 94



H29L ASA 4260386 1/2 SM 1/2 AN SIRE: FIVE STAR JACKSON J10 CE 13 • YW 162 • MARB 0.81 • RE 0.78 • SAPI 166 • STI 105



J76L ASA 4260348 1/2 SM 1/2 AN SIRE: POSS DEADWOOD CE 12 • YW 140 • MARB 0.78 • RE 0.80 • SAPI 160 • STI 98



F651L ASA 4260390 5/8 SM 3/8 AN SIRE: BSUM MOST WANTED 117J CE 14 · YW 138 · MARB 0.30 · RE 0.75 · SAPI 127 · STI 87



G765L ASA 4260345 3/4 SM 1/4 AN SIRE: FIVE STAR JACKSON J10 CE 15 • YW 129 • MARB 0.43 • RE 1.10 • \$API 147 • \$TI 87



F29K ASA 4289339 5/8 SM 3/8 AN SIRE: TJ BONAFIDE 647H CE 14 • YW 127 • MARB 0.31 • RE 0.81 • \$API 132 • \$TI 85 Due 1/29/24 to KBHR REVOLUTION H071



Drake Sale Facility, Centerville, IA 1:00 PM (CT)

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To request a sale book, contact any of the numbers listed. View online sale book, visit drakesimmental.net or ironcreekcattle.com



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4 MILES SOUTH OF THE RANCH, MONTPELIER, NORTH DAKOTA
26TH ANNUAL PRODUCTION SALE



PB SM Homo Black, Homo Polled WS ENHANCEMENT 25H x WS MAINE H49



PB SM Red. Homo Polled BAR CK ADMIRAL 0053H x WS HONEYCOMB J57



PB SM Homo Black, Homo Polled WS JESSE JAMES 31J x HOOK 'S GORMET 69G



Red, Homo Polled WS 38 SPECIAL 20H x WS UPDRAFT J15



SimAngus Hetero Black, Homo Polled CLRS GUARDIAN 317G x BAR CK MS 6225 911Z



PB SM Red, Homo Polled 3C HARMONY 0575H B x WS MISS HONEY H72



SimAngus Homo Black, Homo Polled LCDR FIREPROOF 206H x WS FOREFRONT F15



PB SM Red. Homo Polled MR SR RED OCTOBER G1761 x WS FAST FORWARD J30



3/4 SM 1/4 AN Homo Black, Homo Polled CLRS GUARDIAN 317G x BAR CK MS 6225 911Z Bred to KBHR Absolute

60 SIMMENTAL AND SIMANGUS™ BULLS SELECT OPEN HEIFERS 25 BRED FEMALES



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ASA 4217466 3/4 SM 1/4 AN SAPI 138.1 - \$TI 85.1



809L TJ MULTIPLIER 470H SON
ASA 4216935 1/2 SM 1/2 AN SAPI 156.1 • \$TI 81.9



852L TJ FRONTMAN 518J SON ASA 4217196 PB SM \$API 171.8 • \$TI 96.0



505L TJ CHIEF 460G SON
ASA 4217463 3/4 SM 1/4 AN SAPI 128.9 • \$TI 87.6



507L TJ CHIEF 460G SON ASA 4217465 3/4 SM 1/4 AN SAPI 125.7 • \$TI 89.2



917L TJ WAR PAINT 759J SON
ASA 4216721 3/4 SM 1/4 AN SAPI 126.1 • STI 81.6



518L KBHR BOLD RULER H152 SON ASA 4217476 3/4 SM 1/4 AN \$API 175.2 • \$TI 97.4



538L KBHR HONOR H060 SON
ASA 4217496 PB SM \$API 173.9 • \$TI 96.5



574L TJ GOLD 274G SON
ASA 4217532 PB SM \$API 152.6 • \$TI 87.1



600L KBHR BOLD RULER H152 SON ASA 4217558 PB SM \$API 179.3 • \$TI 100.8



1504L KBHR BOLD RULER H152 SON ASA 4217738 3/4 SM 1/4 AN \$API 149.9 • \$TI 87.4



1507L KBHR BOLD RULER H152 SON ASA 4217741 3/4 SM 1/4 AN \$API 163.4 • \$TI 96.5

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Bulls will be performance and fertility tested, and sell with genomicaly enhanced EPDs. All bulls will be cared for free of charge until April 1, 2024.



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558L TJ GOLD 274G SON
ASA 4217516 PB SM SAPI 184.4 • \$TI 97.7



565L KBHR BOLD RULER H152 SON ASA 4217523 PB SM SAPI 181.4 • STI 99.8



598L KBHR BOLD RULER H152 SONASA 4217556 PB SM SAPI 200.1 • STI 103.4



1572L TJ MAKERS MARK 215Y SON ASA 4217997 1/2 SM 1/2 AN SAPI 152.0 • \$TI 78.9



846L KBHR DUALLY H167 SON
ASA 4217360 3/4 SM 1/4 AN \$API 146.0 • \$TI 90.8



589L TJ FRONTMAN 518J SON ASA 4217547 PB SM \$API 156.1 • \$TI 95.8

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WL Accomplishment 053 x Hook's Bozeman EPDs 11 -0.3 68 110 7 30 72 API 132 TI 76



TNT Diversify x BBS Meatball EPDs 5 2.9 91 153 4 25 71 API 117 TI 77



SITZ Stellar x BAS Heavy Duty EPDs 13 0.8 85 146 9 24 67 API 141 TI 83



KBHR Global x KS Tailored EPDs 9 3.4 90 144 6 30 75 API 131 TI 84



KS Dutton x Hook's Bozeman EPDs 6 4.7 90 137 3 27 72 API 134 TI 84



Tehama Tahoe x BCLR Manifesto EPDs 18 -1.4 94 148 10 33 80 API 167 TI 102



KS Net Income x KS Robin Hood EPDs 10 2.9 98 155 8 29 77 API 147 TI 93



DCR Mr Hang Over x 3D Red Power EPDs 9 4.8 101 145 5 28 78 API 134 TI 87



GW Major Move x KS Bases Loaded EPDs 12 0.4 81 118 6 26 66 API 123 TI 77



KS Dominance x S Powerpoint EPDs 6 3.9 88 145 4 26 70 API 137 TI 90



KS Reggie x LRS Emil EPDs 10 1.2 71 108 6 32 67 API 131 TI 76 Al Bred to Colorado Bridle Bit



GW Major Move x KS Robin Hood EPDs 8 2.3 89 142 5 32 76 API 132 TI 81 Al Bred to IR Imperial



VISIT OUR WEBSITE TO REQUEST A SALE CATALOG TODAY!

WWW.KENNERSIMMENTAL.COM

28TH ANNUAL PRODUCTION SALE

FEBRUARY 10, 2024 1:00 PM CST / AT THE RANCH / LEEDS, ND

Selling 120 Bulls & 65 Bred Heifers / Black & Red - Purebred, SimAngus™ & Red Angus

NO EXTREMES COMMITTED TO Solow

WE PRIORITIZE FINDING THE BALANCE BETWEEN DATA & PHENOTYPE FOR GENETICS THAT WILL IMPROVE YOUR BOTTOM LINE.



KBHR Global x KS Brinley B33 EPDs 14 0.9 82 120 10 32 73 API 142 TI 86



WL Accomplishment 003 x Double J Miss X011 EPDs 15 0.8 91 142 9 28 74 API 131 TI 86



KS Dutton x LRS Crossroads EPDs 9 2.5 81 122 5 27 67 API 121 TI 75



STRA Admiral x ALC Mr Right Kind EPDs 14 0.2 85 123 10 23 65 API 135 TI 84



GW Hilger One x KS Robin Hood EPDs 7 3.9 109 174 3 29 83 API 145 TI 98



Rockin H Captivate x WS All In EPDs 11 2.1 100 143 5 31 81 API 140 TI 93

ENTER TO WIN!

Visit the farm to view the sale offering from December 1st through February 9th to be entered to win a \$500 SALE CREDIT to be used at our 2024 production sale!



Roger, Jeanette & Erika Kenner
Erika 406-581-1188 / Roger 701-466-2800
Herdsman, Bryan Leapaldt 701-466-2553 • C. 701-739-8764
erika.kenner@gmail.com / 5606 57th St NE Leeds, North Dakota 58346

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DVAuction Videos Online DVAuctions by Mid-January

PROFIT THROUGH PERFORMANCE MARCH 3, 2024 SPENCER, SD Production Sale





Jeremy, Bethany, Cash & Emerson Lehrman Jeremy: (605) 530-5909 | Cash: (605) 270-4848 25064 432nd Ave. Spencer, SD 57374 Scan the QR Code to find us on Facebook



Tim Anderson: (605) 682-9343 Jered Shipman: (806) 983-7226 Graham Blagg: (530) 913-6418 InnovationAgMarketing.com

LYMAN LIVESTOCK BULL SALE

REFERENCE SIRES

FIGH Great Nestern 876

FOR THE STEEN BY STEEN BY

1:00 PM MT | PRODUCERS LIVESTOCK MARKET SALINA, UTAH

FEBRUARY 24

PAPTESTED 100 Bulls Sell SIMMENTAL · SIMMENTAL · SIMANGUST · ANGUS

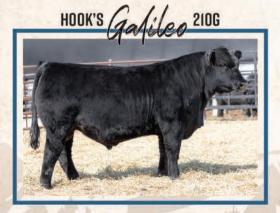
- PAP tested at 6,300' elevation
- Breeding Soundness Exam and Semen Tested
- · "Cattlemen to Cattlemen" guarantee
- Bulls raised by BLM range-calved cows on the 6,500' Utah high desert





FEBRUARY 10 | 6-8 PM

Enjoy food and refreshments while you look through the bulls. Educational talk by Rocky Forseth, Allied Genetic Resources.



Bid Live Online **DVAuction**Broadcasting Real-Time Auctions

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For over 50 years, Bridle Bit Simmentals has built a cow herd known for performance adaptability, that produces cattle that perform in any environment.

TODAY performance adaptability is only one piece of what we do. With the rising cost of every input, our greatest tool is the efficiency data we are generating to benefit our customer's bottom line, and



AFFORDABLE, ROUGH TERRAIN READY BULLS BACKED BY YEARS OF PERFORMANCE TESTING, ULTRASOUND, GENOMICS AND FEED EFFICIENCY DATA.



85 SIMMENTAL AND SIMANGUS™ BULLS
15 ELITE REGISTERED HEIFER CALVES - 15 COMMERCIAL HEIFER CALVES

PERFORMANCE ADAPTABILITY













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Powerful Genetics

starts with productive dams and sires like these!



TRAX'S BULL DOG G49 X IPU RED ZONE 82Y ASA# 4244580 - Adj. WW 730 - Homo Polled



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BRIDLE BIT RED ROCK G9124 X TRAX'S BULL DOG G49

ASA# 4244560 · Adj. WW 711 · Homo Polled



TRAX'S BULL DOG G49 X HOOK'S DELEGATE 64D ASA# 4244624 • Adj. WW 815 • Homo Polled



IPU RAWHIDE 59J X LFE RED RIDGE 809W ASA# 4244627 • Adj. WW 790 • Homo Polled



IPU RAWHIDE 59J X IPU RED ZONE 82Y
ASA# 4244659 • Adj. WW 714 • Homo Polled



KESSLERS COMMODORE 6516 X BBS BATMAN F4
ASA# 4244549 - Adj. WW 817 - Homo Black/Homo Polled



MRL GUNSMOKE 38H X IPU GLADIATOR 151C

ASA# 4244708 · Adj. WW 835 · Homo Black/Homo Polled



MRL GUNSMOKE 38H X HOOK'S BLACK HAWK 50B ASA# 4244685 · Adj. WW 781 · Homo Black/Homo Polled

Call to be added to our mailing list and to request a catalog!

Dusty & Kayla Kunkel, New Salem, ND

(701) 471-5342 • (701) 843-7006

Follow us ou: f / Kunkel Simmentals

E-mail: kdkunkel@westriv.com • Visitors always welcome!



Annual Production Sale

Feb. 2, 2024

At the Ranch . New Salem, ND . 1 P.M C57

65 BULLS - 50 BRED HEIFERS





FEB. 11, 2024 AT 1 PM- CRESCO, IA
Simmental and Sim Angus M Genetics



Pounds & Presence...

who says you can't have it all?!

OMF Ludacris L17 (ASA: 4255423)

L17 is the lead-off son of KCC1 Countertime 872H that is supported by OMF Time Less B100, the dam of OMF Epic E27. A homozygous black and polled herd sire prospect with an elite number profile to compliment his first class phenotype!

Sale Management by: NOVATION

Graham Blagg - (530) 913-6418 Tim Anderson - (605) 682-9343 Auctioneer Jered Shipman - (806) 983-7226 innovationagmarketing.com

ak Meadow Farms Dr. Lynn Aggen - (507) 421-3813 Matt Aggen - (701) 866-3544 Hunter Aggen - (507) 923-0815 oakmfarm.com

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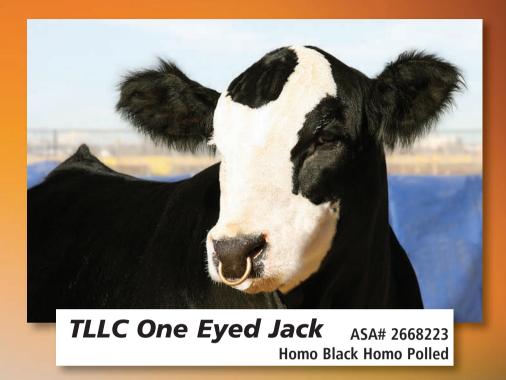
Guest Breeders

SURVIVING THE TEST OF TIME

- ◆ 11 years old and still servicing cows
- One of the most fertile bulls ever collected at Great Lakes
- Sire of nearly 2,600 progeny registered at the American Simmental Association
- Sire of several national champion bulls and heifers
- Sire of some of the most attractive black baldies
- ◆ \$50.00 per unit / original price

One Eyed Jack is a breed ICON.

Most bulls can't brag about one of these qualities let alone all of them.















Semen available through owners or CATTLE / 1510ps 573-641-5270

49th Annual Production Sale

Saturday, February 3, 2024

Private Treaty Auction: 1 p.m. Sharp At the Farm • Corning, IA

RED ANGUS ◆ RED SIMMENTAL ◆ RED SIMANGUS™

Selling

100 YEARLING BULLS

- 32 years of carcass traits, ultrasounding since 1993
- Calving ease
- Performance
- Disposition
- · Uniform, thick and easy-fleshing
- Priced from \$3,800, \$4,000 and \$4,200

Heifers will be offered private treaty in the fall as bred heifers. Loonan Genetics -

Impacting profitable bottom lines for generations!

We appreciate young cattlemen like James Johannes and his family. He came to us in 2007 – while still in high school – looking for a bull. It was July and we still had a Firefly Red Angus bull available, and he and his dad bought him.

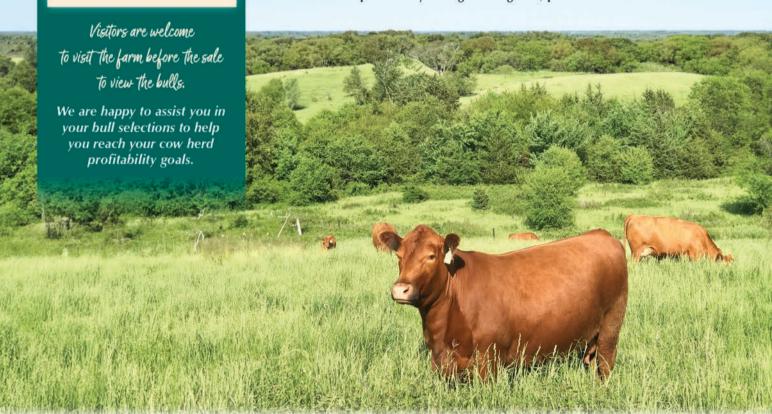
Here we are, years later, and James has gone from buying our last bull available to coming opening day. He studies over all the figures and is buying a bull from the top of the bull crop. His wife, Allison, works at one of our local banks as a credit analyst, so the Johannes family knows what their bottom line is. They know what to look for to get the most for their money from pounds to sell at the sale barn to keeping top replacement heifers.



James & Allison Johannes Jase and Mabel

James has studied his genetics and has had years of outstanding calves with thickness, gainability and eye appeal. In fact, he recently sold 900-lb. heifers for \$2,100.

Join Loonan Stock Farm on Saturday, February 3, to evaluate bulls that will add profitability through calving ease, performance and carcass merit.



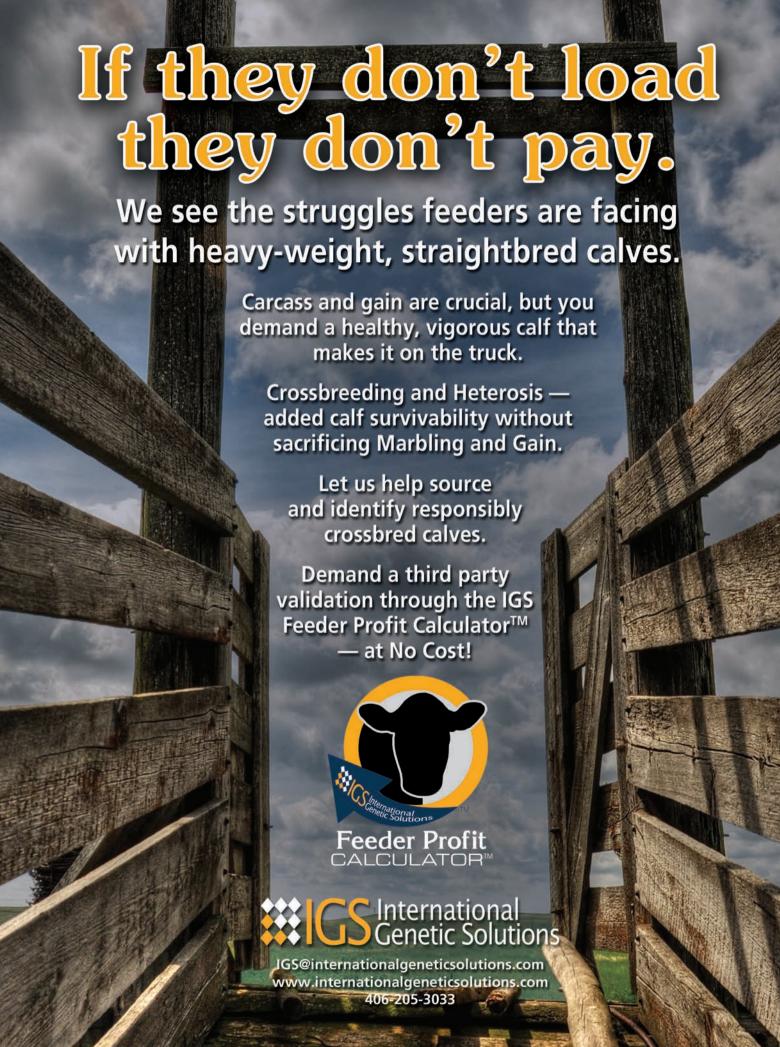
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Phone: (641) 322-3921

1724 Holly Avenue • Corning, IA 50841 Judy's Cell: (515) 423-5642 • Rick's Cell: (515) 229-0920 E-mail: Isfrras@gmail.com Website: www.loonanstockfarm.com





FORSTER FARMS

45th Annual Simmental Production Sale

JANUARY 27, 2024

SMITHFIELD, NEBRASKA • 1:00 PM



FF Getcha Sum L1877

5/8 Blood SimAngus™ Felt Getcha Sum G113 x FF Got Game F177 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI .9 86 134 .3 5 31 74 .14 .89 125 81

FF Graditude L1860

5/8 Blood Red SimAngus™

Hook's Gratitude 71G x FF Ms Premier F1360

CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI

-1.5 67 102 .22 7 24 57 .51 .61 143 81



FF Gold L1875

3/4 Blood SimAngus™ TJ Gold 274G x FF Ms Grad 714 F1285 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 15 -2.2 72 111 .24 9 30 66 .43 .66 155 86



FF Ms Gratitude K1752

5/8 Blood Red SimAngus™ Hook's Gratitude 71G x FF Ms Impressive E952 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 14 -1.8 67 98 .20 9 25 58 .31 .63 134 75 AI bred on 5/19/2023 to Redemption ASA# 2674433

season guarantee.

All animals in the sale are BVD tested

For more information, contact:



FF National L115

3/8 Blood SimAngus™ Connealy National 390C x FF Ms Frontline J1015 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 15 -1.3 84 131 .30 7 29 71 .49 .77 149 88



FF Eagle L1562

1/2 Blood SimAngus™

Hook's Eagle 6E x FF Ms Fin Answer C411

CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI

66 .57 .67 158 95

FF Gold L1619

Purebred Simmental TJ Gold 274G x FF Ms Master D116 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 14 -.3 79 126 .29 8 27 66 .40 .79 156 89

SELLING EXCEPTIONAL LOTS

90 Simmental/SimAngus™ Bulls **40 Bred Heifers** 30 Open Heifers

An outstanding performance-bred group of purebred and percentage cattle. Over 3/4 are black, and the balance are solid red or red baldy . . . hard to match this balanced-performing set of Forster-bred stock!

Join us for a great lunch!



All bulls carry a first breeding

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74096 Road 434 Smithfield, NE 68976-1039

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Sale Day Phone: 308-991-2208



12th Annual Production Sale

FEB. 4, 2024

AT THE RANCH · HURDSFIELD, ND

Selling: 55 Simmental and SimAngus™ Bulls 35 Registered Open Heifers 8 Commercial Open Heifers

& 90 Red & Black Sim-influence Bred Heifers



MADER WALK THE LINE 92J x SPRINGCREEK TESLA 6E ASA#: (4291338) • BD: 1/22/2023 • PB SM

1	Act. BW	FDDC	CED	BW	ww	YW	MCE
ĺ	92	EPDS	7.4	4	102.5	150.8	5.4
I	Adj. 205	MILK	MWW	MARB	REA	API	TI
	788	23.2	74.3	-0.04	0.89	115.2	84.7



SUNNY VALLEY CONVOY 24J x WLB BLOOD RUNNER 3011C 461F ASA#: 4286519 • BD: 2/21/2023 • PB SM

Act. BW	EPDS	CED	BW	WW	YW	MCE
88	EPUS	8.4	3	89.8	135.1	5.4
Adj. 205	MILK	MWW	MARB	REA	API	TI
745	25.4	70.1	0.01	1.01	127.7	81.6



KLSR IRONMAN J40 x RENDEZVOUS LOCOMOTIVE 80B ASA#: 4286533 · BD: 3/10/2023 · 3/4 SM 1/4 CS

Act. BW	EPDS	CED	BW	WW	YW	MCE
94	EPUS	6.1	4.6	87	132.5	4.4
Adj. 205	MILK	MWW	MARB	REA	API	TI
777	26.1	69.4	-0.03	0.9	112.2	76.6



KLSR ENCORE H20 x WLB BLOOD RUNNER 3011C 461F ASA#: 4286528 • BD: 3/22/2023 • PB SM

0.5	E 4 10 1 1 1 1 1	A STATE OF THE PARTY OF THE PAR	THE RESERVE	4.4			
à	Act. BW	EPDS	CED	BW	ww	YW	MCE
	88	EPUS	9.8	2.1	78.5	114.5	5.5
	Adj. 205	MILK	MWW	MARB	REA	API	TI
1	784	25.7	64.7	0.08	0.71	123.3	77



SUNNY VALLEY CONVOY 24J x W/C LOCK DOWN 206Z **ASA#:** 4286536 • **BD:** 3/23/2023 • PB SM

Act. BW	EDDC	CED	BW	WW	YW	MCE
93	EPDS	8.7	2.9	89.9	137.8	6
Adj. 205	MILK	MWW	MARB	REA	API	TI
762	23.8	68.5	0.09	0.81	128.4	83.1



KLSR IRONMAN J40 x KUNTZ SHERIFF 8A ASA#: 4286537 • BD: 2/28/2023 • 3/4 SM 5/32 AN 3/32 CS

Act. BW	EDDC	CED	BW	ww	YW	MCE
95	EPDS	8.5	2.9	87.6	140.4	5.6
Adj. 205	MILK	MWW	MARB	REA	API	TI
808	26.4	70.2	-0.03	0.95	121	79.4



SUNNY VALLEY CONVOY 24J x TNT TANKER U263 ASA#: 4286541 • BD: 3/18/2023 • 3/4 SM 1/8 AN 1/8 CS

Act. BW	EPDS	CED	BW	ww	YW	MCE
95	EPUS	8.8	2.8	89.6	136.1	7.5
Adj. 205	MILK	MWW	MARB	REA	API	TI
790	27.2	71.8	-0.02	0.92	124.3	80.9



KLSR ENCORE H20 x KLSR NATION WIDE E702 ASA#: 4291329 · BD: 2/28/2023 · PB SM

Act. BW	EPDS	CED	BW	WW	YW	MCE
74	EPDS	12.6	-0.1	77.1	112.6	6.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
732	25.3	63.6	0.05	0.67	130.1	78.3



SUNNY VALLEY CONVOY 24J x RENDEZVOUS LOCOMOTIVE 80B ASA#: 4286531 · BD: 3/1/2023 · 3/4 SM 1/4 AN

Act. BW	EPDS	CED	BW	ww	YW	MCE
102	EPUS	7	3.9	87.5	134.7	4.8
Adj. 205	MILK	MWW	MARB	REA	API	TI
725	25.2	68.7	0.11	0.83	109.1	76.5



MADER WALK THE LINE 92J x KOP CROSBY 137W **ASA#:** (4286552) • **BD:** 1/21/2023 • PB SM

Act. BW	EPDS	CED	BW	WW	YW	MCE
94	EPUS	7.1	4.4	100.1	142.8	6.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
739	26.3	76.1	-0.11	0.93	116.3	82.6



TT FIREBALL 280B x SRF ZOOM 938G **ASA#:** (4286555) • **BD:** 3/2/2023 • 3/4 SM 1/4 AR

Ì	Act. BW	EPDS	CED	BW	WW	YW	MCE
	72	EPUS	17.3	-3.6	62.7	89.8	10.2
ğ	Adj. 205	MILK	MWW	MARB	REA	API	TI
	794	30.7	61.8	0.29	0.75	139.4	76.9



SUNNY VALLEY CONVOY 24J x DCR MR MAIN ATTRACTION E18
ASA#: 4286542 • BD: 3/3/2023 • PB SM

Act. BW	EPDS	CED	BW	ww	YW	MCE
93	EPUS	7.6	3.8	89.3	140.4	6.2
Adj. 205	MILK	MWW	MARB	REA	API	TI
808	25.4	69.8	0.03	0.96	122.8	80.7



SUNNY VALLEY CONVOY 24J x RENDEZVOUS LOCOMOTIVE 80B ASA#: 4286514 · BD: 3/3/2023 · PB SM

1	Act. BW	EPDS	CED	BW	ww	YW	MCE	ĺ.
	93	EPUS	8.6	2.8	88.9	134.8	5.8	
	Adj. 205	MILK	MWW	MARB	REA	API	TI	
	811	26.2	70.4	-0.01	1.03	127.6	81	



CROSSROAD STRIDE H149 x KUNTZ SHERIFF 8A

ASA#: 4286540 • BD: 3/7/2023 • PB SM

1	Act. BW	5000	CED	BW	79.5	YW 119.1	MCE 3.7	ľ
ž	88	EPDS	8.5	2.9				١
1	Adj. 205	MILK	MWW	MARB	REA	API	TI	ı
R	802	26.3	65.8	-0.18	1.02	109	70.8	*



CROSSROAD STRIDE H149 x KUNTZ SHERIFF 8A ASA#: 4286545 · BD: 2/26/2023 · PB SM

Act. BW	EPDS	CED	BW	ww	YW	MCE
68	EPUS	8	3.2	84.7	127.4	3.1
Adj. 205	MILK	MWW	MARB	REA	API	TI
745	24	66.1	-0.16	1.02	113.4	73.8



CROSSROAD STRIDE H149 x MRL RED WHISKEY 101B **ASA#:** 4286524 • **BD:** 3/16/2023 • PB SM

Act. BW	CDDC	EPDS CED		WW	YW	MCE
95	EPUS	6.7	4.2	85.1	122.6	3.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
746	25.1	67.4	-0.08	0.96	110.8	74.4



CROSSROAD STRIDE H149 x KS COMMISSION B739 ASA#: 4286520 • BD: 3/16/2023 • PB SM

Act. BW	EDDC	CED	BW	ww	YW	MCE
103	EPDS	3.2	5.9	84.9	126.2	0.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
788	25	67.2	-0.12	1	104.7	70.9



EPDs current as of 12/12/23.

FEEDER CALF MARKETING ASSISTANCE REPLACEMENT HEIFER CALF BUY BACK

Our customers' success is our success! **DMAUCTION**

Visitors welcome anytime!

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www.KLSRCOWS.com • [f]/Kline Simmental Ranch
Contact us for a catalog, videos, DNA and other updates prior to sale day.

all Simmental

Raising Simmental since 1968, Charolais since 1958. We would like to thank our new and returning customers.



DCR Mr Landslide L043

ASA# 4276278 BD: 2/6/23 Adj. 205 WT: 804 lb.s • WWR: 102 MWW \$API \$TI Sire: DCR Mr Hard Impact H69 Dam: DCR Ms Imperial J32

85 124



DCR Mr Lamont L119

ASA# 4276265 BD: 2/15/23 Adj. 205 WT: 797 lbs. • WWR: 101 MWW \$API Sire: GW Hilger One 454H Dam: DCR Ms U302 Red Deputy J160 ET



DCR Mr Lieutenant L137

ASA# 4276258 BD: 2/17/23 Adj. 205 WT 919 lbs. • WWR: 116 MWW \$API Sire: KS Vanderbilt G220 Dam: DCR Miss Radical H115

WW YW Milk 104 158 27



DCR Mr Landrover L128

ASA# 4276264 BD: 2/16/23 Adj. 205 WT: 873 lbs. • WWR: 111 Sire: KS Vanderbilt G220 Dam: DCR Miss All-Aboard H120

BW WW YW Milk 1.2 103 157 25 MWW \$API 76 130



DCR Mr Lock-Down L307

ASA# 4276221 BD: 3/9/23 Adj. 205 WT: 815 lbs. • WWR: 103 MWW \$API 79 149 BD: 3/9/23 Sire: LBRS Genesis G69 Dam: DCR Ms Everglad G130



DCR Mr Landlord L174

ASA# 4276250 BW WW YW Milk 3.6 103 152 30 BD: 2/22/23 Adj. 205 WT: 905 lbs. • WWR: 115 MWW \$API Sire: BC1 Structure J111 Dam: DCR Miss Denali H409



DCR Mr Landmark ET L076

ASA# 4276273 WW YW Milk BD: 2/11/23 Adj. 205 WT: 853 lbs. • WWR: ET MWW \$32I \$TI **72 157 81** Sire: DCR Mr Exclusive E28 Dam: DCR Ms Top Grade C238



DCR Mr Lineman ET L084

ASA# 4276272 BD: 2/12/23 Adj. 205 WT: 838 lbs. • WWR: ET Sire: DCR Mr Exclusive E28 Dam: DCr Ms Top Grade C238

BW WW YW Milk 2.7 86 131 29 MWW \$API \$TI 72 132 81

www.dollfarms.com

44th Annual **Production Sale** Tuesday, **March 5, 2024**

1:30 p.m. CST

Kist Livestock, Mandan, ND

Selling Top-Genetics for Both Breeds!

> 65 Simmentals 95 Charolais

4 Open Females from both breeds

Other Sires:

IR Imperial D948 RFS Force F35 Bridle Bit Resource G9117 DCR Mr Finnigan F446 **DKSR Mr Batman H290** CRS Walker 61G DCR Mr Benchmark F113 DCR Mr Gizzmo Red G380 DCR Mr Hang Over H238 WS Proclamation E202

Simmental Ranch 3991 36th St.

> New Salem, ND 58563 Charles & Pamela Doll 701-843-8673 dollboyz@westriv.com

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SELLING: ELITE FULL FLECKVIEH
YEARLING BULLS
AND FEMALES

SALE DATE:
MARCH 14TH
2024

EXPLOSIVE PERFORMANCE AND PROFIT









HORNED, POLLED AND DILUTER FREE
34TH YEAR OF SELLING FULLBLOOD FLECKVIEH
100% DNA TESTED WITH GENETIC ENHANCED EPDS
THANK YOU TO ALL OF OUR 2023 CUSTOMERS (91% REPEAT)

ALL BULLS SOLD BY PHONE AUCTION
CALL US TO REQUEST A CATALOG BY MAIL. PERFORMANCE AND ULTRASOUND
DATA AVAILABLE ON ALL BULLS. PICTURES, VIDEOS AND ONLINE CATALOG
AVAILABLE BEGINNING IN FEBRUARY ON OUR WEBSITE: BRINKGENETICS.COM

CUSTOMERS
SELLING MORE WEIGHT IN
THEIR MARKET WINDOW
= MORE MONEY

23098 GUNDER RD., ELKADER, IA 52043 • BRINKGENETICS.COM Jerry – 563-245-2048 or 563-880-1470 cell • Jbrink@Alpinecom.net Preston – 563-880-2075 • Prestonbrink@Gmail.com PRACTICALITY · + eterosis · FUNCTIONALITY



Rousey SimAngus Bull Sale 150 SimAngus™ Bulls 90 Blacks • 70 Reds SATURDAY, FEB. 10, 2024
Lincoln County Fairgrounds
1 PM CST • North Platte, Neb.

First Breeding Season Guarantee



Sires Represented Include:

Koupals B&B Pathfinder 8016 • SAV Rainfall 6846 OMF Epic E27 • WS Proclamation • Bieber CL Energize F121 GW Major Move 590E • HSF Cardinal 133G



3061L • SIRED BY CCR COMMANDER 5135F



3182L • SIRED BY YARDLEY EXCELLENCE H428



3201L • SIRED BY RREDS SENECA 731C



ROUSEY SIMANGUS, LLC

Tyrell and Deandra Rousey • (308) 530-9279 4570 N Homestead Rd • North Platte, NE 69101

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The Seventh Annual

CK CATTLE & WAGER CATTLE

PRODUCTION SALE

SATURDAY | FEBRUARY 10, 2024 | 3:00 PM Highmore, South Wabota



CKCC LINCOLN 0631H ET

Lincoln progeny continues to impress us as they mature. They come easy and offer breed leading growth! Once again, his progeny will highlight the sale!



ES RIGHT TIME FA110-4

The influence of Right Time needs no introduction! He is the "fix all" sire to inject performance, carcass merit, and maternal excellence! One of the most consistent sires that we have ever used... and the proof is in the progeny!



FRKG CKCC PLATINUM 009H ET

Sons by the \$175,000 Platinum will sell on February 10, 2024. Unmatched consistency, performance, and real world function, with a first class look!



DEER VALLEY GROWTH FUND

A large selection of SimAngus™ bulls by Growth Fund will be offered. We love the consistency and doability that this set of brothers offer. Hybrid vigor is all-inclusive!



FRKG CKCC UNDISPUTED 005H ET

Homozygous black & polled full brother to Platinum that sires more growth, length, and shape. Undisputed has sired a set of bulls that will turn heads on February 10! We love the genuine shape and performance that this sire group represents!



WAGR PATRIOT 1008

A past sale feature that was selected by Wagonhammer Ranches, WAGR Patriot 1008J has evolved as one of the most elite sons of Hook's Eagle 6E in the business. He ranks top 1% REA, TI; top 2% YW, ADG, CW; top 3% WW; top 10% CE, BW, Doc, API; top 15% Marb. Real world cattle with real world functionality!



MUSGRAVE 31

Elite growth, power, and real world performance can be identified by this sire group. The daughters of Stunner are making absolutely picture perfect females in production! This is a sire group that you can hang your hat on!



100+ BULLS 50+ BRED HEIFERS

Featuring a powerful offering of Simmental & SimAngus™ Seedstock





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UK cattle

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Dusty & Aimee Wager Lanny: 605.769.1211 Dusty: 605.769.5010



Jered Shipman: (806) 983-7226 Graham Blagg: (530) 913-6418 Tim Anderson: (605) 682-9343 innovationagmarketing.com

The gates are open!



The Fourth ANNUAL PRODUCTION SALE

FEBRUARY 5, 2024 | 1:00 PM | CRESTON, IA

SIMMENTAL, ANGUS & SIMANGUS™ BULLS | ELITE SIMMENTAL BRED FEMALES

Herd sire prospects sired by KCC1 Countertime 872H, MR SR Mic Drop G1534, OMF Epic E27, Long's The Player, Long's Pay The Man, Long's Redwood H8, Hook's Eagle 6E, KSU Bald Eagle 53G, Musgrave 316 Stunner, Musgrave Sky High 1534, Stevenson Turning Point, and more! Also selling several exclusive genetic lots and elite open heifer choice lots!

FEATURING THE INFLUENCE OF THE PROLIFIC LONG'S CARMEN!



Graham Blagg: 530-913-6418 Tim Anderson: 605-682-9343 Auctioneer Jered Shipman: 806-983-7726 INNOVATIONAGMARKETING.COM

LONG SIMMENTALS

3272 320th Street | Creston, IA 50801 Rob: 641-344-3028 | Tyler: 641-344-5085 Cody: 641-344-4357 LONGSIMMENTAL.COM





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250 Bulls Available 3.2.2024 Ellensburg, WA 509.201.0775 www.trinityfarms.info

AMERICA'S COV

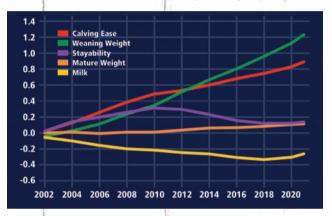
Simmental, SimAngus™, SimAngus HT, and Simbrah.

Meet America's all-purpose cow – gentle and consistent, with calves that give the heterosis boost commercial cattlemen need to stay **profitable**.

Simmental cows set the bar for fertility, weaning weights and exceptional calving ease suited to a variety of environments. Simmental cows are adaptable, built to last in heat, fescue or high altitudes.

Maternal Trait Genetic Trends

Purebred Simmental in past 20 years



Simmental genetics bring calving ease, early growth, and cow longevity while keeping feed costs at a minimum.

Breed	Mature Cow Wt.
Hereford	1,419
Angus	1,410
Red Angus	1,409
Simmental	1,404
Source: LISDA MAR	RC .

\$All Purpose Index (\$API)

predicts cow herd profitability using valuable traits like cow longevity (STAY) and calving ease while keeping pressure on terminal traits.

Compare the profit potential of two Simmental bulls using \$API

- 1 Bull A's \$API = \$120 and Bull B's \$API = \$180
- Breeding 25 females/year
- **3** Used for 5 years

Bull	\$API		# Females per year		# years using the bull		Profit Potential	
Α	\$120	Х	25	Х	5	=	\$15,000	
В	\$180	Х	25	Х	5	=	\$22,500	
	Difference = \$7,500							

Just like an EPD, compare two bulls to see the expected difference in profit. Bull B is likely to result in direct revenue and expense savings of an additional \$7,500 over the course of five years. Plug in your numbers for 1, 2, and 3 to compare your potential earnings.

MORE MORE

More carcass weight, live weight, muscle and marbling. More **profit**.

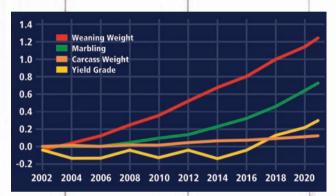
Simmental calves reliably perform in the feedyard – with better growth, better structure and fewer health problems. Simmental cattle add pounds without sacrificing marbling.

Backed by the most comprehensive beef cattle genetic database, the American Simmental Association offers commercial producers more selection and marketing tools than any other breed association.

All to strengthen your bottom line.

Terminal Trait Genetic Trends

Purebred Simmental in past 20 years



\$Terminal Index (\$TI)

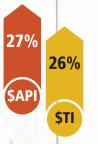
predicts profitability when all calves are harvested.

Trait	Simmental rank compared to other Continental breeds
Marbling	First
Carcass Weight	Second
Back Fat	Second
Post Weaning Gain	First
Source LISDA MARC	

Simmental cattle bring marbling and growth without too much fat. Simmental genetics perfectly complement British strengths and weaknesses for an ideal carcass.

Did You Know?

 According to the National Association of Animal Breeders, Simmental ranks second for semen sales compared to all other beef breeds, and in recent years, the percentage of semen sold in the US from Simmental bulls has grown by 35%.



\$API increased 27% and \$TI increased 26% in the last 20 years. This translates to an average increased profit of \$3,375 per bull when used to sire replacement heifers and harvesting remaining calves or \$2,000 when all calves are harvested.



BULL SALE MONDAY, MARCH 4* 2024

68 Simmental and SimAngus™ Bulls available!

Natural range cattle providing excellent Calving Ease, Maternal Traits, & Carcass Value. Supported by feedlot and grid data.

GREAT BULL SELECTION FROM

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SAT @ 2pm(CST)...FEB 3, 2024 Decorah Sale Barn, Decorah, IA

ASA 4265288 • CE 15 • WW 88 • YW 134 • API 168 • TI 97



EPDs, Actual Weights, Carcass Evaluation & Phenotype to IMPROVE YOUR PROFIT LINE

ASA 4265255 • CE 17 • WW 65 • YW 94 • API 138 • TI 77



PB SM • L613 • S: SRH Hannibal 5H • MGS: SAS Antidote BW 76 • WW 746 • Homo Black • Homo Polled

ASA 4265225 • CE 11 • WW 90 • YW 138 • API 131 • TI 83



PB SM • L257 • S: SRH Patriot • MGS: Wheatland Bull 680S BW 87 • WW 797 • Hetero Black • Homo Polled

PB SM • L90 • S: KBHR Honor • MGS: Hooks Eagle BW 86 • WW 808 • Homo Black • Homo Polled

ASA 4264887 • CE 8 • WW 84 • YW 121 • API 131 • TI 80



PB SM • K617 • S: R PLUS Uppercut • MGS: DS Numbers BW 89 • Homo Black • Homo Polled

ASA 4108847 • CE 8 • WW 90 • YW 132 • API 118 • TI 84



PB SM • K221 • S: LFE Style • MGS: SAS Bitten E357 Bred Heifer • Homo Black • Homo Polled

*EPD as of 12/18/2023

70 Herd Improving Bulls • Bred & Open Females • Donor Females • Embryos



24th Annual \star \star \star KING RANGE

PRODUCTION SALE

THURSDAY, **FEBRUARY 1, 2024**

1:00 P.M. CST • At the Ranch 10752 BIA Road 15, Veblen, SD

DVAuction

Selling 100 Simmental Bulls - 80 Black & 20 Red -

OTHER SIRES REPRESENTED:

LCDR AFFIRMED 212H • STAV RED WAVE 105F HHS BOBBY 847F • HOOK'S EAGLE 6E CLRS CENTER MASS 8103J • STAV CONVOY 106J



OMF EPIC E27



WHEATLAND MAN O'WAR 907G



WLB PRODIGY 493H



KBHR HARTLAND H100



GW HILGER ONE 454H



CLRS BUDDHA 406J

COMMERCIALLY PRICED Black Bull Price Average Red Bull Price Average for 2018-2023 sales for 2018-2023 sales \$7,250 - \$9,500 \$7,250 - \$9,500 -≥\$10,000 \$5,250 - \$7,000 19% \$5,250 - \$7,000 ≤\$3,500 25% \$3,750 - \$5,000 ≤\$3,500 \$3,750 - \$5,000

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Our philosophy is simple:

Annual Production Sale Feb. 17, 2024

At the Ranch, Turtle Lake

RED & BLACK SIMMENTAL & SIMINFLUENCED YEARLING BULLS

OPEN FEMALES & THE ELITE EIGHT: 4 ELITE BREDS, 4 ELITE OPENS

BRED FEMALES. RED & BLACK BRED FOR PROFIT!

We have and will continue to breed cattle with calving ease, while maintaining reasonable and sensible growth. We select females that are moderate in size that will survive and produce in our unpredictable and harsh environment. In the commercial cow/calf business there must be a continued focus on the expense and maintenance of the cow herd. Profitability is not determined by income only, but a balanced approach of inputs and income.



Tattoo: 051L - ASA # 4203351 - 34 SM LBRS Dakota Pride X MGR Treasure



Tattoo: 637L - ASA # 4203385 - PB SM SRF Major Move X Red Zone



Tattoo: 104L - ASA # 4203352 - 1/2 SM Tahoe X CLRS Dividend



Tattoo: 723L - ASA # 4203455 - PB SM Red Empire X Miss Versace



Tattoo: 913L · ASA # 4203453 · 1/2 SM Tahoe X Eight Ball



Tattoo: 869L • ASA # 4203314 • 3/4 blood CLRS Jackpot X Beacon · Complete outcross red



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HEART of the HERD

1:00 PM CT in Atwood, Kansas **MARCH 6** Simmental and SimAngus™ Rawlins County Fair Grounds



Offering includes black and red, genomic enhanced yearling bulls, as well as commercial open heifers... straight from the HEART of the HERD.

Bulls average 155 for \$API and 90 for \$TI.





www.KleinRanch.net

Live Auctions TV

View the bulls in February for a \$100 per bull sale credit. **Klein Ranch**

HEATH AND AMI KLEIN 785-626-9056 Atwood, Kansas 785-626-4212

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Hooks Yuma 49Y son with tremendous growth and look!

GIBBS Signature2510 ASA 4120968 PB SM \$API 174 \$TI 101

Essential's best growth son to date! Fabulous proven donor dam.



Eagle x Astoria. The heir apparent. Stick out phenotype!



Big, stout Freedom son. Stellar numbers, unlimited potential to



Unique pedigreed SimAngus leader for STAY, CE and Marbling.



Powerful Fortune Teller son with extra physical appeal and



Fabulous docility with leading CE, STAY and Marbling

ASA 4104220 PB SM SAPI 202 STI 105

Highest \$API son of arguably the best red cow in the breed!

IRON CREEK Never Say Never 9



First semen should be available in Feb.! Deadwood SimAngus

JUST 1 O OF THE CURRENT LIST OF MORE THAN 3 O ACTIVE ALL BEEF DONORS. BACKED BY THE POWER OF TECHNOLOGY AT TOP GENOMICS LLC.

HOOK'S FANTASIA 94F HOOK'S EVITA 18E

BRIDLE BIT MS CHOICE G994 CLRS JOLENE 1105J

JCMS MAYHAYLEY 109J GIBBS 1033J BLT 4080B RFS LUNA K63 **CLRS JEMIMA 144J** HA HEATHER 022H KHBR MONA K108

EVERYONE CAN ACCESS GREAT GENETICS WITH ALL BEEF SEMEN AND EMBRYOS - CONTACT US TODAY.

ALLBEEF.NET EPDs current 12/14/2023.





2/F JWC FORESIGHT 306L | ASA: 4237288 | PB SM VCL FORESIGHT x HPF VICTORIA B396E From the famous "Vicki" cow family, this is a pedigree that never misses!



JWC MPJ CHARLES 1203K | ASA: 4290865 | PB SM LLSF PAYS TO BELIEVE ZU194 x NICH BEAUTY SECRET H51A A baldy purebred bull that comes with all the extras in regard to muscle and density.



2/F JWC HARK 312L | ASA: 4257491 | PB SM RFS HERALD H104 x W/C ANGEL 7113E The Herald sired cattle are heavy coming to the weaning pen!



JWC PANDEMIC 6077K | ASA: 4078190 | PB SM TRCC PANDEMIC x W/C ANGEL 7114E An elite phenotyped, homozygous polled, purebred that reads with surefire calving ease!



JWC NEXT LEVEL 213L | ASA: 4221250 | PB SM NEXT LEVEL x W/C ANGEL 7114E Combining two next generation producers. This is a trend setting specimen for the red hided stock.



JWCTRUSTEE 313L | ASA: 4221265 | PB SM CDITRUSTEE 387F x W/C ANGEL 9005G An absolute brute, you are going to want to see these 9005G sons in person!



JWC KELCE 230K | ASA: 4078221 | PB SM WLE COPACETIC E02 x W/C ANGEL 7114E Bred to ZTGC Just Cuz 52K - Estimated Due 2/9/2024.



JWC 7113 ANGEL 224K | ASA: 4078215 | PB SM W/C FORT KNOX 609F x W/C ANGEL 7113E Bred to ZTGC Just Cuz 52K - Estimated Due 2/29/2024.



W/C ANGEL 9005G | ASA: 3831797 | PB SM JS SURE BET 4T x W/C MISS ANGEL 2870Z Bred to MR SR 71 Right Now E1538 - Estimated Due:2/24/24

Jared Werning (605) 933-1661 Kassi Rice (319) 939-7476 jared.werning@gmail.com

DVAuction





Graham Blagg (530) 913-6418 Jered Shipman (806) 983-7226 Tim Anderson (605) 682-9343 INNOVATIONAGMARKETING.COM



STRUCTURED FOR SUCCESS

ANNUAL PRODUCTION

SUNDAY, FEBRUARY 18, 2024 • 1 PM • AT THE FARM IN ST CHARLES, MN

47 SIMMENTAL & SIMANGUS™ BULLS 6 ANGUS BULLS 34 BRED HEIFERS & PAIRS 1 PROVEN DONOR

NEW THIS YEAR! OFFERING 15 FANCY COMMERCIAL REPLACEMENT HEIFERS!





KLER NEW ERA L16 | ASA: 4253927

KBHR Revolution H071 will be one of the featured sire groups in this year's sale offering with 13 direct progeny! This baldy herd sire prospect is a must see on sale day!



KLER KARL WAYNE 3035L | ASA: 4228839

3035L is a big spread herd sire prospect sired by KLER Promoter GI5 and supported by the time tested SWC Ruby Yetti 143Y cow family! He posted an impressive 889 lb. weaning weight to ratio at 104!



KLER TRUE BUILT 3011L | ASA: 4228815

30IIL is one of the standout performance bulls in this year's offering. He charts top 4% WW, YW; top 10% ADG, REA; top 25% CW; TI. He posted an impressive 947 lb. adjusted weaning weight to ratio at 110!



HL KLER RED EMPIRE 171L | ASA: 4183078

An elite red hided calving ease specialist that is backed by a tremendous half-blood dam sired by PZC TMAS Firestorm 1800 ET!



KLER ANONYMOUS 3005L | ASA: 4228809

A powerhouse son of the \$180,000 W/C Fort Knox 609F that is supported by the legendary EKHCC Red Jewel 760 donor dam. 3005L is a sale feature!



KLER SARGENT 3007L | ASA: 4228811

This dark red hided stud ranks among the top 10% of the breed for WW, YW, ADG; top 15% CW; top 25% TI. A performance driven stud!



KLER DIXIE CHICK 2065K | ASA: 4096000

Due to calve 1/17/24 to Five Star Jackson J10



KLER LET'S GO BARBIE 2031K | ASA: 4095972

Due to calve 4/4/24 to KLER Nation 2087K



KLER BEAUTY QUEEN 2085K | ASA: 4096019

Due to calve 3/23/24 to KLER Nation 2087K







SETH KAEHLER: 507,272,5403 RALPH KAEHLER: 507.269.5721 **CRAIG SCHAUFLER: 507.438.3878** KAEHLERCATTLE..COM



GRAHAM BLAGG: 530.913.6418 JERED SHIPMAN: 806.983.7226 TIM ANDERSON: 605.682.9343 INNOVATIONAGMARKETING.COM



ASA# 3563534 HOOK`S BEACON 56B x CCR COWBOY CUT 5048Z HOMO BLACK HOMO POLLED PB SM Due 3/25/24 to Bridle Bit Eclipse E744



ASA# 4032077
CLRS GUARDIAN 317G x HOOK`S EAGLE 6E
HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN
Due 3/19/24 to HA Kerchief 61K



ASA# 4032081 EGL FIRESTEEL 103F x REDHILL 672X X004 231A HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN Due 3/23/24 to HA Kerchief 61K



ASA# 4186303 CLRS HERO 8086H x KBHR CIMARRON F151 HOMO BLACK HOMO POLLED PB SM Sells Open



ASA# 4186432 HOOK`S GALILEO 210G x HOOK`S EAGLE 6E HETERO BLACK HOMO POLLED 5/8 SM 3/8 AN Sells Open



ASA# 4195999
CLRS GUARDIAN 317G x W/C UNITED 956Y
HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN
Sells Open



ASA# 4186251
CLRS JUSTIFIED 7101J x EGL FIRESTEEL 103F
HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN



ASA# 4186190 CLRS JEFFERSON 951J x WS PRIME TIME B6 RED HOMO POLLED 3/4 SM 3/16 AN 1/16 AR



ASA# 4196022 HOOK`S GALILEO 210G x HOOK`S BEACON 56B HOMO BLACK HOMO POLLED PB SM



ASA# 4196051 BRIDLE BIT ECLIPSE E744 x HOOK`S BEACON 56B HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN



ASA# 4202719
GW TRIPLE CROWN 018C x TJ FIRST CUT 1109C
HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN



ASA# 4186290 KBHR GUNSMOKE J131 x TJ DIPLOMAT 294D HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN



CONSTANTLY CALIBRATING

BRED FOR BALANCE



ASA# 4186153 CLRS GUARDIAN 317G x REDHILL 672X X004 231A HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN



ASA# 4186154
CLRS HERO 8086H x HOOK`S GALILEO 210G
HOMO BLACK HOMO POLLED PB SM



ASA# 4186155
CLRS GUARDIAN 317G x LBRS GENESIS G69
HOMO BLACK HOMO POLLED PB SM



ASA# 4207243
GIBBS 9114G ESSENTIAL x GW PREDESTINED 701T
HOMO BLACK HOMO POLLED 3/4 SM 3/16 AN 1/16 MX



ASA# 4186228
CLRS JET BLACK 706J x HOOK`S BEACON 56B
HOMO BLACK HOMO POLLED PB SM



ASA# 4186235 CLRS HOMELAND 327H x HOOK`S BEACON 56B HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN

MAKE PLANS TO JOIN US IN STARBUCK, MINNESOTA FEBRUARY 9, 2024 • 1:00 PM (CT)

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The Jim Wulf Family Travis Wulf 320-288-6433 twulf09@hotmail.com 30819 250th St., Starbuck, MN 56381 Jim - 320-491-6312 Brady 320-424-2989

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1/2 SM 1/2 AN \$API 153.7 \$TI 85.2 CLRS HOMELAND 327H son. 5/8 SM 3/8 AN \$API 182 \$TI 103.8 GIBBS FAST TRACK 0634H son.



5/8 SM 1/4 AR 1/8 AN \$API 161.3 \$TI 88.5 CLRS HOMELAND 327H son.

ANNUAL Bull Sale MARCH 15

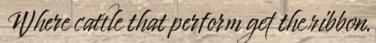
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SIMMENTALS

39TH ANNUAL "CARRYING ON" THE EXPLOSIVE DIFFERENCE SALE

Friday, FEBRUARY 9, 2024

1 p.m. CST • At the ERBELE RANCH, Lehr, ND

Your COMMERCIAL BULL HEADQUARTERS, along with BREED-LEADING HERDSIRES! They are THICK and DEEP - All backed by the TNT 100% GUARANTEE!

DVAUCTION Broadcasting Real-time Auctions

Selling 120 Bulls Purebred Black Sim 3/4, 1/2 & 1/4 SimAngus™

Purebred Red Sim 3/4, 1/2 & 1/4 SimAngus™

Purebred Red Angus



Millars Duke 816 x Gibbs 7382E Broad Range 13 Brothers Sell!



Rockin H Captivate J75 x CDI Perspective 238A



TNT Convergence F380 x G A R Prophet 3/4 Brother to 2023 High Seller!



TNT Royalty H335 x LMG Gills Indeed 4736



Connealy Craftsman x WBF Significant B132 Multiple Flushmates Sell!



Bridle Bit Efficient J160 x IR Imperial D948 Multiple Red Hooks Eagle Grandsons Sell



Gibbs 7056E Southern Comfort x TNT Pride C232



GW Hilger One 454H x LMG Gills Indeed 4736



TNT Assurance J455 x TNT Unified B203 12 Brothers Sell!

MENTAL RANCH

Contact us

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Shanon & Gabe Erbele

(701) 527-5885 (Shanon's cell) (701) 426-9445 (Gabe's cell) gserbele@hotmail.com

Kevin & Lynette Thompson

6471 51st Ave SE • Lehr, ND 58460 5125 53rd St • Almont, ND 58520-9731 (701) 391-1631 (Kevin's cell)

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- Volume discounts!
- Performance data and genomic-enhanced EPD!
- No creep feed!
- Majority homozygous polled!
- All reds are non-diluters!
- All blacks will be homozygousor heterozygous-black verified!

Bulls viewable anytime at the Erbele Ranch, 30 m. S of I-94 Exit 228 · Videos & photos at tntsimmentals.com and DVAuction.com

direct from cow country in western, Nebrahsa



PRODUCTION SALE - 1 PM MST - MARCH 21, 2024



2023 NWSS RES. GRAND CHAMPION PEN OF FIVE % SIMMENTAL BULLS



2023 NWSS RES. GRAND CHAMPION PEN OF THREE PB SIMMENTAL HEIFERS



JOCK, BRENDA & SKYE BEESON

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NEOGEN is proud to be a partner of the American Simmental Association and collaborate on research projects to drive innovation, backed by science proven by genetic progress.



Your herd is covered.

On the ranch, you make decisions using visual appraisal every day. But what about the traits you don't see? That's where NEOGEN's® GGP comes into play. We've loaded the most informative markers and filled in the gaps to provide you with the most complete and powerful seedstock selection tool in the industry.

So, you can be sure those lines in the tag are working overtime for you to provide confidence in selection decisions that help bolster your reputation amongst your herd and customers for generations to come.

GGP's markers have you covered and informed. Leverage GGP today by contacting your breed association or go to genomics.neogen.com/en/ggp-beef

TSN SIMMENTALS Annual Bull Sale

96.5



ASA 4270634 - 3/4 SM 1/4 AN - KBHR HONOR HOGO SON



ASA 4270647 - PB SM - FP/L JURISDICTION 103J SON



YW MARB 13.4 131.8 14.1 0.76 0.83 159.7 ASA 4270581 - 5/8 SM 3/8 AN - TSN ARCHITECT J618 SON

L012



ASA 4270624 - PB SM - CLRS GUARDIAN 317G SON



ASA 4270723 - PB SM - LBRS GENESIS G69 SON

Simmental AND SimAngus™ Bulls

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to the generations of cattlemen who have profited from the MATERNAL HETEROSIS and HYBRID VIGOR bred into DAKOTA XPRESS SIMGENETICS.

If you need a little more
POWER and PAYWEIGHT in
your herd, come, 'lide with us!



R+ Estevan • The top-selling bull from the R+ Total Herd Dispersal at \$70,000.



QB Special Ops K11 • A high-selling bull from Quandt Brothers at \$30,000.

Annual Production Sale:

FRIDAY FEB. 16, 2024

Kist Livestock, Mandan, ND • 1 p.m.

140 Bulls • 55 Bred Heifers

Red • Black • Simmental • SimAngusTM



Contact us to be added to the mailing list

Wade Staigle Family (701) 226-6464
Kevin Hansen Family (701) 720-6551
www.dakotaxpress.com • f DVAuction

HAVEN HILL SIMMENTALS

Selling Thursday, February 22, 2024

At the Illinois Performance Tested Bull Sale 11:00 AM at the Illinois Beef Expo Springfield, IL

Bull Sale

Haven Hill Simmentals will offer 7 Percentage SimAngus™, 2 Purebred Simmentals and 3 Purebred Angus 18-Month-Old Bulls plus 4 Yearling Bulls!



ASA#4113850 • HHS MR ENTOURAGE 867B x MCC SUPERMAMA 7009

Homo Black Homo Polled Adj BW: 85 Adj WW: 864 Adj YW: 1442

EPDs/Rank: CE: 16.8 10% BW: -0.1 45% WW: 85.7 20% YW: 141.2 15%

API: 148.9 25% TI: 91.0 15%



AAA#20471998 • POSS DEADWOOD x SRF RRR ISABEL R0448

Adj BW: 81 Adj WW: 658 Adj YW: 1336

EPDs/Rank: CED: +470% BW: +.9 45% WW: +78 15% YW: +143 10%

CW: +69 15% Marb: +.91 30% RE: +.84 25% Fat: -.008 25%

Our bulls not picked up sale day will return home after the sale and we will arrange delivery.





ASA#4113849 • E W A PEYTON 642 x HHS GEORGIA 802G

Hetero Black Homo Polled Adj BW: 77 Adj WW: 856 Adj YW: 1361

EPDs/Rank: CE: 18.1 5% BW: -0.9 30% WW: 100.5 2% YW: 162.9 2%

API: 190.8 1% TI: 108.7 1%

SEVEN EPD TRAITS RANKING IN THE TOP 5% OF THE BREED!



ASA#4113848 • SFG COWBOY LOGIC D627 x HHS GEORGIA 802G
Hetero Black Homo Polled Adj BW: 85 Adj WW: 866 Adj YW: 1315
EPDs/Rank: CE: 12.5 35% BW: 1.5 55% WW: 93.6 10% YW: 148.2 5%
API: 146.9 25% TI: 95.7 5%

For a mailed catalog, please contact: Travis Meteer at 217-430-7030 or go online to view full offering at www.IPTBullSale.com



1011 155th Ave. W, Milan, IL

Bob Fitzpatrick (309) 236-7330

hhscows@gmail.com



Schooley

FRIDAY, FEBRUARY 2, 2024

5:00 P.M. at Bloomfield Livestock Market Sale Location – 510 Weaver Road, Bloomfield, IA 52537

Open House Cattle Viewing at the ranch on January 27 24046 190th (Bull Barn) • Bloomfield, IA

simmental SimAngus Angus

Selling 135 Head Head 90 Yearling Bulls 45

Bred Heifers

DVAuctionBroadcasting Real-Time Auctions



TERS KODIAK 206K AI SIRE TO MANY BRED HEIFERS!



ASA#2853887+ Homo Black Homo Polled 3/4 SM 1/4 AN Cow CCR Cowboy Cut 5048Z x TSN Miss 1407 P146 BD: 2/17/14 - API 161 - T183 Al bred to CITWR Game Changer, due 3/10



ASA#(4109319)- Black Polled PB SM Cow OMF Epic E27 x Schooley Miss C526 928G BD: 2/17/22 - API 133 - TI 85 Al bred to Schooley Haggard, due 2/20 Bull



ASA#(4109370)• Black Polled 3/4 SM 1/4 AN Cow OMF Epic E27 x Schooley Miss Y1554 BD: 2/28/22 • API 116 • TI 77 Al bred to TERS Kodiak, due 2/20 Heifer



ASA#(4109250)• Black Polled PB SM Cow SO Remedy 7F x Schooley Miss 3786 995G BD: 2/6/22 • API 122 • TI 76 Al bred to TERS Kodiak, due 2/19 Heifer



KBHR Revolution H071



OMF Epic



Schooley Knight 739K



Crawford Guarantee



CLWTR Game Changer



ASA#(4256880) • Homo Black Homo Polled 5/8 SM 3/8 AN Bull Hook's Galileo 210G x Schooley Miss 823F 068H BD: 2/25/23 • API 190 • TI 114



ASA#(4256937) • Black Homo Polled Purebred SM Bull CLRWTR Game Changer H4A x Schooley Miss 972G 165J BD: 2/1/23 • API 158 • TI 100



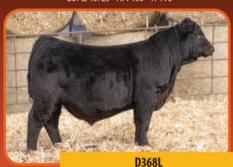
ASA#(4256883) • Homo Black Homo Polled 5/8 SM 3/8 AN Bull Hook's Galileo 210G x Schooley Miss 823F 068H BD: 2/13/23 • API 183 • TI 116



ASA#(4256910) • Black Homo Polled Purebred SM Bull Schooley Judgment 68J x OMF Miss Boulder E69 BD: 2/1/23 • API 178 • TI 101



ASA#(4256857) • Homo Black Homo Polled 3/4 SM 1/4 AN Bull KBHR Revolution H071 x Schooley Miss 823F 068H BD: 3/16/23 • API 159 • TI 101



ASA#(4256890) - Black Homo Polled Purebred SM Bull Schooley Judgment 68J x OMF Miss Boulder E69 BD: 2/1/23 • API 172 • TI 97



ASA#(4256894) - Homo Black Homo Polled Purebred SM Bull Schooley Judgment 68J x Schooley Miss E69 171J BD: 2/1/23 • API 180 • TI 110



OMF Epic E27 x Schooley Miss 823F 054H BD: 2/6/23 • API 165 • TI 104



ASA#(4256902) • Homo Black Homo Polled Purebred SM Bull KBHR Revolution H071 x Schooley Miss E69 171J



ASA#(4256767) • Black Homo Polled Purebred SM Bull KBHR Revolution H071 x OMF Miss Boulder E69 BD: 3/12/23 • API 180 • TI 108

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3 YEAR FEET AND SEMEN GUARANTEE ON BULL CALVES

- X Bulls developed on high roughage ration designed from longevity
 - ✗ Bulls bred to maximize commercial cattlemen's bottom line
- X Providing top market for feeder steers and replacement females through Bloomfield Livestock Market
- ✗ All bulls sell with Genomic Enhanced EPDS
- X Bulls stay at ranch until May 1 NO CHARGE



ASA#4115546 • Homo Black Homo Polled 3/4 SM 1/4 AN Bull KBHR Revolution H071 x Schooley Miss 3000A 823F Last year's high seller going to English Oaks Ranch

Bred by Cattlemen for Cattlemen



FOR MORE INFORMATION:

Roman Schooley, Owner 515-450-3685 Tyler Schooley, Owner 641-208-5442 Gary Gabel, Herdsman 716-449-4352



www.schooleycattle.com



EPDs 12.8.23

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Hofmann Simmental Farms

(No. 15) BUY YOUR WAY Bull Sale

> at the farm, Clay Center, Kansas **FEBRUARY 24 - MARCH 2, 2024**

ONLINE BIDDING THROUGH FEB. 28. LIVE CLOSEOUT MARCH 2

Selling

55 SIMMENTAL & SIMANGUS™ BULLS SPRING & FALL | BLACK & NON-DILUTE RED

Private Treaty | Limited Auction Buy Your Illay!

CONVENIENT, LOW PRESSURE, FAIR, TRANSPARENT | BUYERS DETERMINE THE SALE ORDER VISIT OUR WEBSITE TO LEARN MORE ABOUT OUR UNIQUE SALE FORMAT AND ASK ABOUT OUR EARLY BID DISCOUNTS!



Wide Load x SAV Bismarck - ASA 4162712 Aug'22 3/4 SM 1/4 AN - ET · Homo Black · Homo Polled



TJ Stone Cold x TJ Gambler - ASA 4235490 Dec '22 Purebred Simmental - ET · Homo Black · Homo Polled



TJ Frosty x SAV Bismarck - ASA 4239440 Jan'23 1/2 SM 1/2 AN · Homo Black · Homo Polled



HSF Cardinal x WS Outcross - ASA 4211838 Aug '22 Purebred Simmental Non-dilute Red Blaze • Homo Polled



HSF Cardinal x HSF Majority - ASA 4211894 Sept'22 Purebred Simmental · Non-dilute Red · Homo Polled



HSF Imperial x ER Big Sky - ASA 4235494 Dec '22 Purebred Simmental - ET · Non-dilute Red · Homo Polled

Tires represented include:

Simmental - HSF Cardinal, Hilger One, Imperial, Hook's Delegate, 29Z, Proclamation, Stone Cold, Honor, High Road, Wide Load Red Angus - Marksman, Spartacus, Domain, Redemption Angus - Rainfall, Werner Flat Top, Leachman Right Time

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find the catalog, videos, bid links (available mid-February) and more: www.HONESTBULLS.com



"Born in the Barn, Sold in the Barn" Sale

42nd Annual Production Sale

Saturday, February 3, 2024

gelling: **50** Yearling Simmental & SimAngus™ Bulls **10** Bred Registered Heifers **15** Open Registered Heifers

1 p.m. CST At the Ranch Ruso, ND

Auctioneer: Dustin Carter



KSR ENTERPRISE 734L

Black • 3/4 SM 1/4 AN • Polled • BD: 2/26/23 BW: 90 lbs • WW: 754 lbs OMF EPIC E27 x W/C UNITED 956Y CE BW WW YW MCE Milk MW 11.6 0.4 96.5 148.4 7.3 23.7 71.9

-0.13

0.21 134.7



KSR PIONEER 810L

Black • 5/8 SM 3/8 AN • Polled • BD: 2/14/23 BW: 65 lbs • WW: 631 lbs CDI INNOVATOR 325D x A A R TEN X 7008 S A CE BW WY W MCE MIIK MW 13.1 -0.5 83.3 131.2 8.2 20.9 62.5 CW YG MB API TI 45.7 -0.20 0.51 137.4 88.2



KSR YUKON 1683L

Black • 1/4 SM 3/4 AN • Polled • BD: 2/26/23 BW: 88 lbs • WW: 760 lbs TEHAMA TAHOE B767 x 787U

CE BW WW YW MCE MIIK MW 13.5 -0.2 87.2 133.7 6.0 26.3 69.9 CW YG MB API TI 46.0 0.02 0.59 146.4 89.3



KSR FIREBRAND 825L

Red • Purebred • Polled • BD: 3/1/23 BW: 100 lbs • WW: 839 lbs SAS COPPERHEAD G354 x RFS CELEBRITY C87 CE BW WW YW MCE Milk MW 3.3 4.3 100.1 141.3 1.1 32.4 82.4 CW YG MB API TI 27.0 -0.45 0.16 125.1 88.0



KSR LILY 438L

Black • Purebred • Polled • BD: 2/21/23 BW: 85 lbs • WW: 598 lbs KRJ DAKOTA OUTLAW G974 x KSR DELTA 486C CE BW WW YW MCE Milk MW 9.7 2.7 96.7 143.9 5.0 23.6 71.8 CW YG MB API TI 35.4 -0.49 0.08 129.8 86.9 Open House
Bull Viewing:
January 27 and 28
11 a.m. to 4 p.m. each day

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at Franzen Simmentals

1.23.24 Production Sale

Franzen Sale Facility -Leigh, NE - 1:00 PM CT

Cattle viewing Monday afternoon and prior to the sale.



He sells - K7O1 (4188260) 3/4 SM 1/4 AN - Homo Blk, Homo Pld LF Cactus Jack son \$API 142.3 \$TI 78.3



She sells . K713 (4188274)
PB SM - Homo Blk, Homo Pld
LF Cactus Jack daughter
\$API 138.5 \$TI 67.3
Bred to KBHR Global



She sells—• K21 (4040289) 3/4 SM - Red, Homo Pld HSF Cardinal 133G daughter \$API 134.3 \$TI 83.8 Bred to Red Hill Double Agent



He sells - K598 (4188309)
PB SM - Homo Blk, Homo Pld
CDI Innovator 325D son
\$API 120.8 \$TI 80.7

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Black and Red

30 Age-Advantaged Purebred and Percentage Bulls 20 Registered Bred Heifers - 10 Commercial Bred Heifers



FOR SALE CATALOG, CONTACT 402-487-2678 OR TEXT 402-276-1197.

1538 Road 3, Leigh, NE www.franzensimmentals.com Lawrence Franzen
402-487-2678 home - 402-276-1197 cell
franzensimmentals@gmail.com

Craig Franzen 402-276-2400 Caleb Franzen 402-276-1925



Marty Ropp 406-581-7835 Corey Wilkins 256-590-2487 Jared Murnin 406-321-1542

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Sale catalog and online bidding at

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Hoiby Simmental MENTE

Morthwest Morth Dakota's Gource for Gimmental & Cim Angus Genetics!

Saturday, FEBRUARY 17, 2024

1 p.m. CST • McGregor, North Dakota At the ranch in the heated sale barn. Please join us for a pre-sale lunch!

Celling: 40 Bulls 10 Bred Heifers 10 Open Heifers Gimmental & Gim Angus™ Black and Red



R Plus Nitro X PF Spillway 3/4 Simmental 1/4 Angus

CE BW WW YW MCE M MWW API TI 3.5 76 118 4 27 65 127 73



MRL BattleCry X Hooks Beacon Purebred

CE BW WW YW MCE M MWW API TI 11 2.7 88 130 7 28 72 138 85



JC King of the Road X R Plus Nitro Purebred CE BW WW YW MCE M MWW API TI

11 0.5 84 128 6 31 72 151 88



PF Outfit X SDS Graduate 3/8 Simmental 5/8 Angus

CE BW WW YW MCE M MWW API 12 -0.5 81 127 3 23 63 140 88



Hooks Hercules X Leachman Cadillac 3/4 Simmental 1/4 Red Angus

CE BW WW YW MCE M MWW API TI 83 128 5 23 65 146 87



JC King of the Road X WS Proclamation Purebred

CE BW WW YW MCE M MWW API TI 14 -1.5 81 122 8 30 70 165 92

Bulls pictured at 8-9 months of age. EPDs as of 12-12-23.

HOIBY SIMMENTAL RANCH

Lyndon and Shelley Hoiby . Paige Reid . Levi Hoiby 7890 101st Ave NW • McGregor, ND 58755

Home: 701-546-4043

Lyndon: 701-641-1083 • Paige: 701-641-9938

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53rd Annual Production Sale AT THE RANCH, WESSINGTON, SD

FRIDAY, MARCH 15, 2024



Rick, NaLani, NaLea, Chase, & Swayzee Dunsmore 21830 372nd Ave., Wessington SD 57381 Home: 605-458-2425 • Rick cell: 605-354-7523 Nalani cell: 605-350-5216



Tyler Cell: 605-280-1416 · Cam Cell: 605-350-2018

27th Annual Bata & Bell Performance Sale

FEBRUARY 9, 2024

Rugby Livestock Auction 1:00 PM CST

DVAuction
Broadcasting Real-Time Auctions

SELLING:

100 Yearling Bulls • 25 2-Year-Old Bulls
60 Purebred Bred Heifers
60 Purebred Open Heifers
60 Commercial Bred Heifers • 40 Second Calvers



R+ Reddington X MRL Ringman PB SM, ASA 4194654, Adj. WW 751 Red, Non-Diluter



LFE The Riddler X Hart Road Warrior PB SM, ASA 4194649, Adj. WW 838 Homo Black, Homo Polled



SKORS Blackjack X BBS True Justice PB SM, ASA 4275876, Adj. WW 880 Hetero Black, Homo Polled



QB Marvel X LFE The Riddler PB SM, ASA 4194670 Adj. WW 818 Homo Black, Homo Polled



MRL Bomber X Gibbs Raisin Cain PB SM, ASA 4247566, Act. WW 804





BATA BROTHERS SIMMENTALS

6322 Hwy 35, Adams, ND 58210

Mark 701-331-3055 Joe 701-331-0344 Chris 701-331-0517



12787 County Rd 19A, Fordville, ND Travis 701-360-1597





Springcreek McDavid X LFE The Riddler PB SM, ASA 4247591, Act. WW 865



Black Gold Witness X KWA Riddler PB SM, ASA 4247598, Act. WW 792



Springcreek McDavid X MRL Bomber PB SM, ASA 4252406, Act. WW 737

Over 40 years of Performance Genetics! BATA BROTHERS SIMMENTALS



Bred and Open Heifer Complete Dispersal

at the Bata/Bell Bull Sale

THE COWS HAVE BEEN SOLD!

BATA BROTHERS SIMMENTALS

6322 Hwy 35, Adams, ND 58210 Mark 701-331-3055 Joe 701-331-0344 Chris 701-331-0517

FEBRUARY 9, 2024

Rugby Livestock Auction, Rugby ND



Hart State of War X MLC Mr Justice ASA 4124969, Homo Black Bred to DKSR Prowler



LFE The Riddler X RF Red Absolute ASA 4124991, Hetero Black Bred to TT Golden



R+ Uppercut X LFE The Riddler ASA 4124979, Homo Black Bred to TT Golden



SKORS Blackjack X KOP True North ASA 4125015, Non-Diluter Bred to DCR Mr Hard Impact



R+ Uppercut X SprCrk Grand Slam ASA 4124986, Homo Black Bred to Gibbs Essential



DCR Mr Hard Impact X SVS Brooks ASA 4124996, Non-Diluter Bred to Kuntz Sheriff



R+ Uppercut X MLC Mr Justice ASA 4194616, Homo Black Open, Adj. WW 702



Rust Buster X SVS Brooks ASA 4194710, Non-Diluter Open, Adj. WW 789



R+ Uppercut X Grand Slam ASA 4194632, Homo Black Open, Adj. WW 681

Winnemucca Convention Center THURSDAY, FEBRUARY 22, 2024 Winnemucca, Nevada







EVERY BULL SELLING COMES COMPLETE

- Full genomic enhanced EPDs and multipurpose indexes
- Individual performance gain data with ratios
- Rigorous breeding soundness evaluation including a sort for feet, legs, and disposition
- First year breeding season quarantee on functional fertility

SELLING 225 **FALL-BORN LONG** YEARLING BULLS

110 SimAngus™ 16-month-old Bulls 115 Charolais 18-month-old Bulls

GUEST CONSIGNMENT FROM BAR CK CATTLE COMPANY, CULVER, OR

SIRES REPRESENTED IN THE OFFERING INCLUDE:

- **KBHR QUIGLEY C154**
- KBHR TBEF/BAR CK RETICLE G112
- BAR CK/TBEF GALLANT 9125G
- IR BEACON E010
- **BAR CK PENDLETON 7028**
- **BAR CK TEBOW 1006X**
- **GW VINDICATOR 312E**
- CLRS GUARDIAN 317G
- **KBHR WISDOM H035**

Δν	e. EPDs of Sa	le Rulls
MV	c. LI D3 OI 30	ile Dulla
Ra	nk in ASA Da	tabase

CE	BW	WW	YW	ADG	MCE	MILK	STAY	CW	YG	MARB	ŞAPI	\$TI
19.1	-4.4	63.6	101.6	0.24	11.0	27.9	17.5	27.1	-0.13	1.13	194.0	99.1
3%	3%			55%	4%	20%	5%			1%	1%	3%

The bulls in this offering are bred, selected, and sorted to work in a high-desert environment with minimal inputs. We run our registered cow herd in the same terrain as many of our commercial customers to ensure these bulls not only survive in this environment; they thrive.

All bulls are on test at Sandhills Cattle Feeders, 12 miles North of Winnemucca, NV. They can be viewed at any time through the morning of the sale. We have a satisfaction quarantee with all bulls selling, and if we can be of any service to assist in selection, please don't hesitate to contact us,



Winnemucca, NV 89445 Wade 208-243-1813 Cara 208-221-4241 smalllivestock@outlook.com

BAR CK CATTLE CO. 8925 SW Green Drive

Culver, OR 97734 Mike Alley 541-948-3521 Mike@BarCKCattle.com



John Dickinson 916-806-1919 Jake Parnell 916-662-1298

LLSF

REG# 4128302

DOB 4.28.22

BREED **PB SIMMENTAL**

HOMOZYGOUS POLLED



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SEXED FEMALE SEMEN

TJSC ONYX 44B DAM OF K07

CONTACT OWNERS FOR INFORMATION



Ryan Andersen 25367 190th Street Bloomfield IA 52537 641.226.1884



Jerry & Barb Lee 1495 County Rd 274 Columbia MO 65202 573.881.5629



573.641.5270

MARCH 9 2024

CLARE, MICHIGAN AT 1:00 PM ET

JC Simmentals Sale Facility

14TH ANNUAL BULL SALE Our group of breeders includes the #6 and #7 ranking SAPI herds in the nation.





MULTI-GENERATIONS GENOMIC TESTING || RIGHTMATE AND RIGHT CHOICE || CUSTOMER FEEDER CATTLE MARKETING OPTIONS
DEVELOPED RIGHT SO THEY LAST FOR YOU

OPEN HOUSE

MARCH 2 || 11 AM - 3 PM

Sale book requests and reasonable delivery arrangements anywhere in the US, contact John Miller, 989-429-2834 or john@jcsimmentals.com

For more information, visit www.jcsimmentals.com



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Andy Salinas, Salinas Farms 231-245-6750
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- RightMate uses your specific genetic and production objectives.
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- [Important genomic inbreeding management is applied.
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The genetics worth waiting for!



Thursday, March 7, 2024

1:00 p.m., At the Ranch, Mandan, ND

SELLING 200 HEAD

120 High-Performance Red & Black Simmental & SimAngus™ Bulls and 80 Red & Black Simmental & SimAngus™ Heifers



KBHR L025 - Reg# (4225701) - PB SM - Homo Polled WS JAM-PACKED 88J x KBHR J116 MS RED VELOUR CE 15.4 BW -3.5 WW 73.8 YW 109 MCE 9.5 M 23.5 MWW 60.2 API 180.5 TI 96.1



KBHR L086 - Reg# (4225762) - PB SM - Homo Black - Homo Polled LBRS GENESIS G69 x BAR CK MS X38 106Z CE 14.4 BW -1.4 WW 80.8 YW 118.8 MCE 9.8 M 25.7 MWW 65.8 API 196.7 TI 103.8



KBHR L108 - Reg# (4225784) - PB SM - Homo Black - Homo Polled KBHR HONOR H060 x KBHR DEBUTANTE H113 CE 18 BW -3 WW 82.9 YW 135.7 MCE 11.3 M 28.7 MWW 69.9 API 202.9 TI 106



KBHR L033 - Reg# (4225709) - PB SM - Homo Black - Homo Polled GIBBS 9114G ESSENTIAL x WS MISS SUGAR C4 CE 18.7 BW -3.4 WW 95.1 YW 158.1 MCE 11.2 M 28.7 MWW 76 API 196.8 TI 109.8



KBHR L100 - Reg# (4225776) - 3/4 SM - Homo Black - Homo Polled REDHILL 672X X004 231A x WS MISS SUGAR C4 CE 15.5 BW 0.3 WW 94.5 YW 152.5 MCE 9.6 M 17 MWW 64 API 183 TI 102.1



KBHR L157 - Reg# (4225833) - PB SM - Homo Polled KBHR ALL AMERICAN G104 x WS ELECTRA E88 CE 16 BW -1.1 WW 89.1 YW 134.9 MCE 10.7 M 26 MWW 70.3 API 168.3 TI 101.3

Dwight, Susan & Jake Keller — Luke & Katy Keller — Tessa & Thomas Osterbauer 701-471-5215 Dwight • 701-471-1142 Luke • 701-471-5065 Jake • 701-445-7350 Home

EPDs as of 12/13/23

DVAuction



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KBHR L022 - Reg# (4225698) 3/4 SM - Homo Black - Homo Polled REDHILL 672X X004 231A x WS MISS SUGAR C4 CE 13.1 BW 0 WW 102.2 YW 169.3 MCE 8.1 M 17 MWW 67.9 API 179.5 TI 104.7



KBHR L046 - Reg# (4225722)
PB SM - Homo Black - Homo Polled
LBRS GENESIS G69 x BAR CK MS X38 106Z
CE 17.2 BW -1.9 WW 77.4 YW 112.3 MCE 11.8
M 25.7 MWW 64.1 API 200 TI 102.1



KBHR L105 - Reg# (4225781)
PB SM - Homo Black - Homo Polled
KBHR HONOR H060 x BAR CK MS X38 106Z
CE 17.2 BW -1.3 WW 75.1 YW 116.8 MCE 12.2
M 27.1 MWW 64.5 API 186.5 TI 99



KBHR L107 - Reg# (4225783)
PB SM - Homo Polled
WS JAM-PACKED 88J x KBHR J011 MS FREYA
CE 13.2 BW -1.3 WW 85.4 YW 129.3 MCE 8.3
M 25.1 MWW 67.6 API 167.8 TI 97.3



KBHR L166 - Reg# (4225842)
PB SM - Homo Polled
KBHR ALL AMERICAN G104 x WS ELECTRA E88
CE 14.1 BW 0.7 WW 98.9 YW 147.4 MCE 9.6
M 26 MWW 75.2 API 155.3 TI 100.2



KBHR L175 - Reg# (4225851)
PB SM - Homo Black - Homo Polled
LBRS GENESIS G69 x BAR CK MS X38 106Z
CE 12.4 BW 0.8 WW 89.6 YW 144.6 MCE 8.7
M 25.7 MWW 70.3 API 188.9 TI 105.8



KBHR L176 - Reg# (4225852)
PB SM - Homo Polled
MR SR RED OCTOBER G1761 x KBHR H074 MS ALL ABOARD
CE 18.6 BW -2 WW 87.9 YW 139.2 MCE 10.1
M 20.5 MWW 64.2 API 177.1 TI 103.1



KBHR L187 - Reg# (4225863)
PB SM - Homo Polled
KBHR ALL AMERICAN G104 x WS ELECTRA E88
CE 12.7 BW 2.1 WW 103.4 YW 159.8 MCE 8.5
M 26 MWW 77.5 API 165 TI 106.4



KBHR L202 - Reg# (4225878) 1/2 SM - Homo Polled BIEBER CL STOCKMARKET E119 x KBHR F245 CE 16.9 BW -2.4 WW 86.3 YW 136.9 MCE 10.6 M 23.4 MWW 66.4 API 165.1 TI 102.9



KBHR L212 - Reg# (4225888)
PB SM - Hetero Black - Homo Polled
FIVE STAR JACKSON J10 x WS ELECTRA E88
CE 19.5 BW -5.2 WW 73.4 YW 108.4 MCE 11.9
M 27.1 MWW 63.6 API 188.9 TI 100.3



KBHR L214 - Reg# (4225890)
PB SM - Homo Black - Homo Polled
KBHR HARTLAND H100 x WS MISS SUGAR C4
CE 15.9 BW -2.4 WW 91.2 YW 138.4 MCE 9.6
M 30 MWW 75.4 API 172.8 TI 103.4



KBHR L279 - Reg# (4225955)
PB SM - Homo Polled
FIVE STAR JACKSON J10 x KBHR RED VELVET F055
CE 15 BW -0.4 WW 95.5 YW 143.3 MCE 10.6
M 28.3 MWW 75.8 API 167.6 TI 106.5

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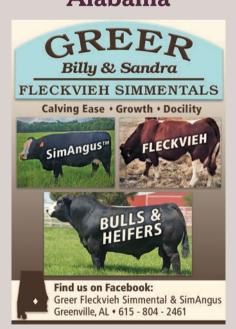


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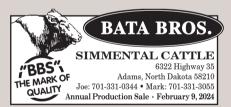
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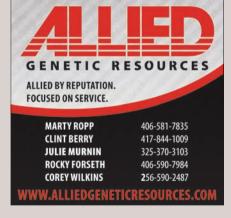
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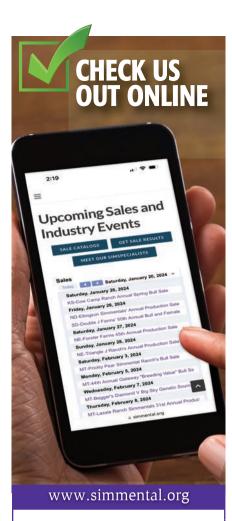
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CALENDAR OF EVENTS

JANUARY

- 12 Diamond Bar S Bull Sale Great Falls, MT (pq. 64)
- 14 The One and Only Simmental Sale Denver, CO
- 16 Powerline Genetics' Arapahoe Sale Arapahoe, NE
- 20 Cow Camp Ranch's Annual Spring Sale Lost Springs, KS (pgs. 5, 133)
- 23 Cattle Connect Sale at Franzen Simmentals Leigh, NE (pg. 120)
- 26 Double J Farms' 50th Annual Bull and Female Sale Garretson, SD (pgs. 135, 143)
- **26** Drake Simmental's Bull and Female Sale Centerville, IA (pg. 69)
- 26 Ellingson Simmentals' Annual Production Sale Dahlen, ND (pg. 134)
- 27 Forster Farms' 45th Annual Production Sale Smithfield, NE (pg. 128)
- 27 J&C Simmentals' Annual Bull Sale Arlington, NE (pgs. 134, 146)
- 28 Reck Brothers-N-Sons Genetic Advantage Production Sale Blakesburg, IA (pg. 33)
- Triangle J Ranch's Bull Sale Miller, NE (pgs. 72, 73, 134)
 APEX Cattle's Annual Heterosis Headquarters Bull, Bred Heifer, and Fall

Pair Sale — Dannebrog, NE (pgs. 16, 17)

FEBRUARY

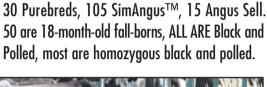
- 1 Stavick Simmental's Annual Sale Veblen, ND (pgs. 99, 135)
- 2 Kunkel Simmentals' Annual Production Sale New Salem, ND
- 2 Schooley Cattle's Annual Production Sale Bloomfield, IA (pqs. 116, 117)
- 3 Blue River Gang's 38th Production Sale Rising City, NE (pg. 35)
- 3 Ekstrum Simmentals' Annual Bull Sale Kimball, SD (pg. 144)
- 3 Klain Simmental Ranch's 42nd Annual Production Sale Ruso, ND (pg. 119)
- 3 Loonan Stock Farms' 49th Annual Production Sale Corning, IA (pg. 85)
- Donai Stock Farms 43th Amuar Founction Sale Corning, IA (pg. 6.
- 3 Ruby Cattle Company's Annual Production Sale Murray, IA
- 3 Springer Simmentals Sale of Value-Based Genetics Decorah, IA (pg. 98)
- 3 Stockmen's Source Bull Sale North Platte, NE (pg. 31)
- 4 Hartman Cattle Company's 10th Annual Simmental Bull Sale Tecumseh, NE
- 4 Kline Simmental Ranch's 12th Annual Bull Sale Hurdsfield, ND (pgs. 88, 89)
- 5 44th Annual Gateway "Breeding Value" Bull Sale Glendive, MT (pgs. 64, IBC)
- 5 Long's Simmentals' 4th Annual Production Sale Creston, IA (pg. 94)
- 6 Koepplin's Black Simmental's 36th Annual Bull Sale Mandan, ND (pq. 55)
- 6 Little Bitterroot Ranch's Annual Production Sale Ramsay, MT (pgs. 40, 64, 133)
- 7 Begger's Diamond V Big Sky Genetic Source Bull Sale Wibaux, MT (pgs. 64, 137)
- 7 Lazy C Diamond Ranch's Annual Production Sale Kintyre, ND (pgs. 58, 59)
- 8 Felt Farms' Bull Sale West Point, NE (pg. 37)
- 8 Houck Rock Creek Ranch's Private Treaty Spring Bull Sale Allen, KS
- 8 Lassle Ranch Simmentals 31st Annual Production Sale Glendive, MT (pgs. 64, 139)
- 8 Rust Mountain View Ranch's "Ace in the Hole" Bull Sale Mercer, ND (pg. 13)
- 9 Bata Brothers/Bell Family Annual Joint Simmental Bull and Female Sale Rugby, ND (pgs. 124, 134)
- 9 Bata Brothers Simmentals' Bred and Open Heifer Complete Dispersal at the Bata/Bell Bull Sale Rugby, ND (pq. 125)
- 9 Bred For Balance Sale Starbuck, MN (pgs. 106, 107, 133)
- 9 TNT Simmental's 39th Annual "Carrying On" the Explosive Difference Sale Lehr, ND (pgs. 110, 134)
- 10 CK and Wager Cattle's 7th Annual Production Sale Highmore, SD (pg. 93)
- 10 Dixie National Simmental Sale Jackson, MS
- 10 Kenner Simmentals' 28th Annual Production Sale Leeds, ND (pgs. 76, 77)
- 10 RL Fleckvieh Limerock Ranch's 41st Annual Bull and Bred Female Sale Brandon, IA (pg. 46)
- **10** Rousey SimAngusTM Bull Sale North Platte, NE (pg. 92)
- 10 Rydeen Farms' 26th Annual "Vision" Sale Clearbrook, MN (pgs. 9, 133)
- 11 Oak Meadow Farms 6th Annual Production Sale Cresco, IA (pg. 83)
- 12 Benda Ranch Simmentals' Annual Production Sale Kimball, SD (pq. 52)
- 12 Dakota Power Bull and Female Sale Hannaford, ND
- Nelson Livestock Company Production Sale Wibaux, MT (pgs. 64, 133)
 Prickly Pear Simmental Ranch's Bull Sale Helena, MT (pg. 44)
- 13 Edge of the West Bull and Female Sale Mandan, ND (pgs. 57, 64, 134)
- 13 Werning Cattle Company's 43rd Annual Production Sale Emery, SD (pgs. 66, 67)
- ${\bf 14} \quad {\bf Jackpot\ Cattle\ Company's\ Private\ Treaty\ Bull\ and\ Heifer\ Sale\ --\ Miller,\ SD\ \it{(pg.\ 135)}$
- 14 River Creek Farms' 34th Annual Production Sale Manhattan, KS (pqs. 19, 133)
- 14 Traxinger Simmental's Annual Bull Sale Houghton, SD
- 15 Wilkinson Farms Simmentals' "Breeding for the Future" Production Sale C-B Sale Facility (pq. 70)
- 16 Dakota Xpress' Annual Bull and Female Sale Mandan, ND (pgs. 114, 134)
- 16 Jared Werning Cattle's 2nd Annual Production Sale Parkston, SD (pg. 104)
- 16 R&R Cattle Company's Annual Production Sale Chamberlain, SD (pg. 7)
- 16 Sandy Acres Simmental's Bull Sale Creighton, NE (pg. 134)
- 17 7P Ranch's 30th Annual Spring Bull and Female Sale Winona, TX (pq. 3)
- 17 Double T Simmental's Annual Production Sale Turtle Lake, ND (pq. 100)



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- 17 Flittie Simmental/Schnabel Ranch Simmentals/Lazy J Bar Ranch's Joint Production Sale — Aberdeen, SD (pq. 15)
- Hoiby Simmental's Bullnanza Sale McGregor, ND (pg. 121)
- Rhodes Angus Open House and Bid Off Bull and Female Sale Carlinville, IL (pg. 32)
- Yon Family Farms' Spring Bull and Female Sale Ridge Spring, SC
- K-LER Cattle's Annual Production Sale St. Charles, MN (pq. 105)
- Trauernicht Simmentals' LHT Bull Sale Wymore, NE (pg. 39)
- Bulls of the Big Sky Billings, MT (pgs. 64, 75, 133)
- TC Reds & Weis Cattle's 2nd Annual Production Sale Saint Ansgar, IA
- 20 Quandt Brothers Cattle Company 12th Annual Bull Sale — Oakes, ND (pg. 54)
- 21 Hart Simmentals' Power Bull Sale — Frederick, SD (pg. 41)
- 22 Illinois Performance Tested Bull Sale — Springfield, IL (pg. 115)
- 22 Small Livestock's Performance Tested Bull Sale — Winnemucca, NV (pg. 126)
- Multi-Breed Simmental Sale Springfield, IL
- 24 Emmons Ranch Sale — Olive, MT
- Hofmann Simmental Farms' "Buy Your Way Bull Sale" Clay Center, KS (pg. 118) 24-3/2
 - Lyman Livestock's 12th Annual Bull Sale Salina, UT (pq. 79)
 - Barker Cattle Company's Sale Burley, ID
 - Raatz Farms Production Sale Mitchell, SD (pg. 43)
 - 27 Deckert Simmental Ranch's Annual Production Sale — Arena, ND (pg. 49)
 - 27 TSN Simmentals' Annual Bull Sale — Platte, SD (pq. 113)
 - C Diamond Simmentals' Annual Production Sale Dawson, ND (pgs. 60, 61)

MARCH

- 1 Eichacker Simmentals' Annual Bull Sale Salem, SD (pgs. 45, 135)
- Cason's Pride & Joy Bull Sale Russell, IA (pg. 47)
- Gibbs Farms' Bull and Female Sale Spring Edition Ranburne, AL (pq. 147)
- Moriondo Farms & MM Cattle Company's Spring Bull Sale -Mount Vernon, MO
- Powerline Genetics' PAP Tested Bull Sale Castle Dale, UT
- Trinity Farms' Generations of Excellence Sale Ellensburg, WA (pgs. 95, 135)
- Gold Bullion Group's 22nd Annual Bull Sale Westmoreland, KS (pg. 108)
- Windy Creek Cattle Company Production Sale Spencer, SD (pg. 78)
- Hanel's Black Simmentals Annual Production Sale Courtland, KS
- Hill's Ranch Production Sale Stanford, MT (pgs. 64, 97, 133)
- Rincker Simmentals' Sweet 16 Bull and Female Sale www.sconlinesales.com
- S/M Fleckvieh Cattle's Private Treaty Bid-Off Garretson, SD (pg. 42)
- Doll Simmental Ranch 44th Annual Production Sale Mandan, ND (pg. 90)
- Klein Ranch's Heart of the Herd Sale Atwood, KS (pg. 101)
- Cattleman's Kind Bull Sale San Saba, TX
- Kearns Cattle Company's 35th Annual Bull Sale Rushville, NE (pg. 53)
- Keller Broken Heart Ranch Annual Production Sale Mandan, ND (pgs. 130, 131, 134)
- 24th Annual Gonsior Simmentals' In the Heartland Sale Fullerton, NE
- Carcass Performance Partners Bull and Female Sale Lucedale, MS 9
- Great Lakes Beef Connection Clare, MI (pq. 87)
- 9 TN Beef Agribition — Lebanon, TN
- 9 Yardley Cattle Company's 51st Annual Bull Sale — Beaver, UT
- **12** Powerline Genetics' March Edition Bull Sale — Arapahoe, NE
- 13 RA Brown Ranch's Spring Bull Sale — Throckmorton, TX
- B&B Simmental Cattle's Annual Sale Gregory, SD
- Brink Simmentals' Sale Elkader, IA (pq. 91) 14
- 3C Christensen Ranch and NLC Simmental Ranch's Annual Production Sale — Wessington, SD (pgs. 123, 135)
- Black Summit Bull Sale Powell, WY (pgs. 64, 109) 15
- 15 Eastern Spring Classic Simmental Sale — Columbus, OH
- Sunflower Genetics' Annual Sale Maple Hill, KS (pg. 142)
- 16 Buck Creek Ranch's Bull Sale — Yale, OK
- Colorado Select Bull Sale Fort Collins, CO (pg. 132)
- 16 Lechleiter 36th Annual Bull Sale — Loma, CO (pg. 132)
- Red Hill Farms' More Than A Bull Sale XIX Lafayette, TN (pgs. 135, 148) 16
- Rockin H Simmentals' Production Sale Canby, MN
- 18 Bridle Bit Simmentals All Terrain Bull Sale — Walsh, CO (pgs. 81, 132)
- 21 Western Cattle Source's 3rd Annual Bull Sale — Crawford, NE (pq. 111)
- 22 Great Northern Bull Sale — Clear Lake, MN
- Clear Choice Bull Sale Milan, IN (pg. 132) 23
- T Heart Ranch High Altitude Bull Sale La Garita, CO (pgs. 71, 132)
- **27** Diamond H Ranch's Annual Production Sale — La Crosse, KS (pg. 63)
- **30** Wildberry Farms' Annual Production Sale Hanover, IL (pg. 145)



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Bull & Female Sale

YEAR'S FRIDAY, JANUARY 26, 2024 12:00 NOON • 48672 252nd Street • Garretson, SD



ASA #4248176 PB • Jawbreaker x True Justice Homo Polled & Homo Black Outcross baldy with curve bending genetics!



ASA #4090307 3/8 SM • Guarantee x Turning Point Homo Polled & Homo Black Al safe to KRJ Golden Book, due 2/12.



KRJ L3170

ASA #4248261

Purebred and Percentage red bulls sired by Captivate, Red River & Cadillac.



ASA #4248220 3/4 SM • Turnpike x Makers Mark Homo Polled & Homo Black Eye appealing baldies with added performance.



KRJ L3174 ASA #4248264 PB

6 full ET brothers sell!

W/C Revolution x Daphne (Uprising)

ASA #4101565 PB Turnpike x Daphne (Uprising) Full sister to Dakota Outlaw, Jesse James & Spotlight! Al safe to Falcon, due 2/12.

ASA #4248143 5/8 SM • Arrowhead x Outlaw Homo Polled & Homo Black Performance from a first calf heifer.





a drawing for the Mineral X-Feeder. Buyers and registered bidders will also be eligible to receive other great prizes and additional giveaways in honor of our 50th Annual Celebration! See you on January 26!



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WILDBERRY

Annual Production Sale

70 FORAGE-DEVELOPED BULLS 35 BRED HEIFERS AND PAIRS FROM THE HEART OF THE HERD

FARMS

March 30, 2024 1:00 pm • Hanover, IL



L072 // ASA 4240695 // 5/8 SM 3/8 AN CLRS HOMELAND 327H x WBF BISMARK A069



L059 // ASA 4240682 // PB SM TJ BRUTUS 428H x IR ZEUS A718



L069 // ASA 4240692 // 1/4 SM 3/4 AN MILL BRAE IDENTITY 7116 x GIBBS 1100Y HY DEACON



L078 // ASA 4240700 // PB SM KBHR HARTLAND H100 x IR ZEUS A718



LO23 // ASA 4240651 // 1/2 SM 1/2 AN WERNER FLAT TOP 4136 x KBHR HIGH HEAT G087



L079 // ASA 4240701 // PB SM SCHOOLEY STANDOUT 27G x ASR AUGUSTUS Z2165



K370 // ASA 4062032 // 3/4 SM 7/32 AN 1/32 MX GIBBS 9290G BAMA x TSN 1407 N150



K315 // ASA 4061983 // PB SM PBF RED PAINT F88 x LCHMN BRIGHT LIGHT L122L



K210 // ASA 4061886 // 5/8 SM 3/8 AN WBF RL DEETS H126 x WBF DOWNTOWN D054

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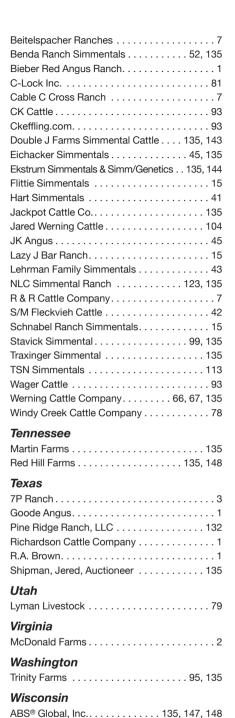
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Saturday, January 27, 2024 | 12:30 pm

Washington County Fairgrounds, Arlington, Nebraska





J&C FIREPROOF L174 PB SM Fireproof x Long Haul



J&C EAGLE LOO1 PR SM Eagle x THR Elevation



J&C EPIC L225 PR SM Fnic x Lockdown



J&C MS FROSTY K44 1/2 SM Black Bred Al'd to TJ Gold 5/12/24



J&C MS MAIN EVENT K140 1/2 SM Black Polled Bred Al'd to Big Easy 4/14/24



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66 3/4 SM Open Heifer LCDR Progressive x Judge



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March 2, 2024

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FIRST TIME MARKETING THESE CATTLE AT THIS NEW EVENT FOR GIBBS FARMS

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ASA# 3882780 | 1/2 SM 1/2 AN

YW MARB RE 163.7 102.4 153.6 0.90



GIBBS 9114G ESSENTIAL

ASA# 3716905 || PB SM

YW 16.5 99.7 107.3 171.7



GIBBS 9121G KENWORTH

ASA# 3717071 | 1/2 SM 1/2 AN

YW RE 145.3 0.67 96.9 0.69



CCR BEDROCK 57171J

ASA# 4028738 | 1/2 SM 1/2 AN

0.86 101.2 170.7 145.8 0.78



KBHR HONOR HOGO

ASA# 3789447 || PB SM

103.4 191.2 17.1 131.6 0.75 83.3 1.23



TJ STONE COLD 336G

ASA# 3611790 | 5/8 SM 3/8 AN

0.36



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YG MARB ADG MCE Milk MWW ST DOC RFA -0.4 0.35 9.4 15.9 38.3 -0.43 0.76 1.26 21.9 179.6 98.2 10% 15% 99% 95% 2% 15% 2% *EPDs as of 12-10-23

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1 p.m. CDT At the Farm Selling 75 Bulls

35 Red Angus, 35 SimAngusTM and 5 Charolais Bulls

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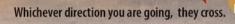


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CE	BW	WW	YW	MCE	MILK	MWW
18	-0.5	93	153	10	30	77
DOC	CW	YG	MARB	REA	API	TI
16	54	-0.01	0.71	0.68	176.3	101.3



GW BREAKTHRU 045C x GW MISS DUE NORTH 132H HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

www
MANA
71
TI
99.5



GW TRIPLE CROWN 018C x GW MISS CONQUEST 538C
HOMO BLACK HOMO POLLED 1/2 SM 1/4 AN 1/4 AR

CE	BW	WW	YW	MCE	MILK	MWW
15	-3.2	80	131	8	26	66
DOC	CW	YG	MARB	REA	API	TI
22	47	-0.06	0.75	0.58	166.8	97.3



HETERO BLACK HOMO POLLED 5/8 SM 1/4 AR 1/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
14	-1.0	92	142	6	32	78
DOC	CW	YG	MARB	REA	API	TI
18	36	-0.15	0.46	0.43	156.2	94.9



GW MOVIN ON 183C x GW MISS YUKON JACK 938E RED HOMO POLLED 1/2 SM 5/16 AR 3/16 AN

CE	BW	ww	YW	MCE	MILK	MWW
18	-3.2	84	137	8	27	69
DOC	CW	YG	MARB	REA	API	TI
15	44	-0.30	0.38	1.03	155.8	92.3



GW WARHEAD 210J x GW MISS PREDOMINATE 491E
HOMO BLACK HOMO POLLED 5/8 SM 1/4 AR 1/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
11	-1.5	88	140	7	28	72
DOC	CW	YG	MARB	REA	API	TI
15	42	-0.02	0.76	0.43	170.0	99.4

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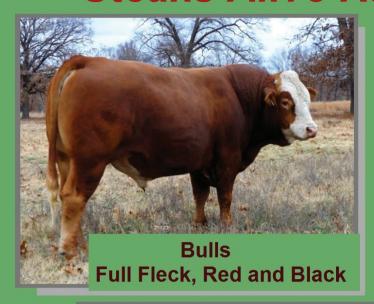


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