

the Register

Rooted in Data, Invested in Customer Success

**Superior Beef Genetics develops
high-quality, proven cattle for
their commercial buyers.**

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**Expected Progeny
Differences Part II**

**Innovation Meets
Application**

2021 BIF Meeting

**Simmental and Bison
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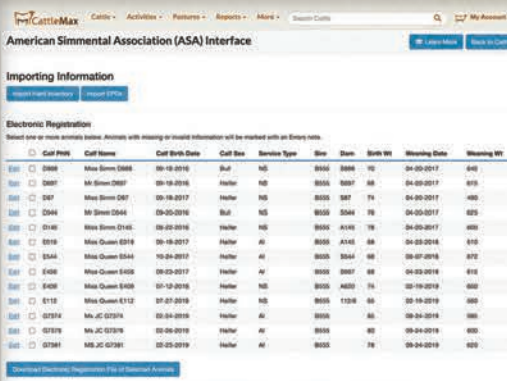
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The screenshot shows the CattleMax interface for the American Simmental Association (ASA). It features a navigation bar with 'CattleMax', 'Cattle', 'Activities', 'Features', 'Reports', and 'More'. Below the navigation bar, there are buttons for 'Log In/Sign Up' and 'My Account'. The main content area is titled 'Importing Information' and includes a table for 'Electronic Registration'. The table has columns for 'Calf ID', 'Calf Name', 'Calf Birth Date', 'Calf Sex', 'Breeding Type', 'Breed', 'Shorn', 'Birth Wt', 'Weaning Date', and 'Weaning Wt'. The table contains several rows of data, including entries for 'Mia Storm 0265', 'Mia Storm 0267', 'Mia Storm 0268', 'Mia Storm 0269', 'Mia Storm 0270', 'Mia Storm 0271', 'Mia Storm 0272', 'Mia Storm 0273', 'Mia Storm 0274', 'Mia Storm 0275', 'Mia Storm 0276', 'Mia Storm 0277', 'Mia Storm 0278', 'Mia Storm 0279', and 'Mia Storm 0280'.

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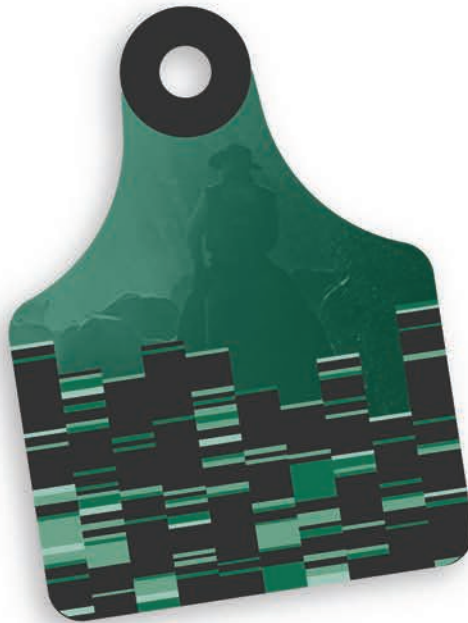


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DEMAND DRIVER



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The percentage of beef calves identified as **SimAngus™** grew seven-fold from 2010 to 2018, according to Kansas State University analysis of more than 35,000 lots of beef calves marketed through Superior Livestock Auction.

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*Dr. Bob Hough, *Western Livestock Journal*, "Breed trends in feeder cattle," January 2020.
Kansas State University Superior Livestock Auction data analysis, 35,483 lots of beef calves marketed via 211 video auctions, 2010-2018.

Listed below are ten questions designed to test your knowledge of the beef industry.

Elite: 9-10 correct

Superior: 7-8 correct

Excellent: 5-6 correct

Fair: 3-4 correct

Poor: 1-2 correct

1. What is the word that describes the degree to which a feed is accepted by an animal?
2. What is the term that describes the internal organs and cavities of an animal?
3. Within a five-day margin, what is the average length of the gestation period of a cow?
4. Where are cow dewclaws located?
5. What part of a bovine's digestive system removes liquid from the feed by muscle contractions and breaks up coarse particles in feed?
6. What term is used to describe the measurement in square inches of a cross section of the loin muscle taken at the 12th rib?
7. What is the name of the risk management strategy that allows a producer to lock in a price for a given commodity at a specified time?
8. What is the tool used to manipulate the reproductive process so that female cattle come into heat in a predicted time range?
9. Name two methods of determining that a cow is pregnant.
10. What is regarded as the most reliable guide for evaluating the nutritional status of the cow?

Answers:

1. Palatability; 2. Viscera;
3. 284 days; 4. Behind the hoof;
5. Omasum; 6. Rumen area;
7. Hedging; 8. Estrus synchronization;
9. Rectal palpation and ultrasound;
10. Body condition

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Golden morning light and cow-calf pairs are highlights of summer in cattle country. Photo by Kelly Massey, KJM Livestock Photography, Cabool, Missouri.

About the Cover

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by Chad Cook, Walsh, CO
Western Region Trustee

In my early days of being an American Simmental Association Trustee, I am learning more and more about the workings of the ASA programs, activities, and events. I want to tip my hat to Dr. Wade Shafer, the outstanding staff he has around him,

and my fellow trustees. Our membership should be proud of where the Simmental breed stands today.

As I write this from my first event, the AJSA Western Regional in Sandpoint, Idaho, I am reminded of the importance of our junior program that I was involved in years ago. Upon checking into my hotel, the first people I encountered were AJSA board member Lauren Tauernicht and a group of young kids from Nebraska. I asked Lauren why they were here and she stated they enjoy coming to the Western Regional because of the beautiful weather. It was encouraging to see one of our 19-year-old leaders, who had been a member since she was eight years old, mentoring our young people.

For those of you who don't know me personally, I am a huge believer in data collection. The ASA, along with our IGS partners, are setting the standards for genetic evaluation by using data collection to better assist our commercial customers in producing a better product. In my opinion, data collection and reporting are the most important things we can do as seedstock producers. I would encourage everyone to take the extra time to report data on the hard-to-collect traits, such as foot and leg, udder score, mature weight, and carcass or ultrasound data. The ASA has provided its members access to many great programs to improve our breed. Science has become a major part of the cattle industry. The founders of the ASA saw into the future of our breed by using the most science-based records that were available at the time (birth weight, weaning weight, and yearling weight). We now have genomics through DNA and we must continue to embrace science as an association to keep us at the forefront of the cattle industry.

I hope you are all blessed with rain and green grass for the rest of the summer. Remember that Fall Focus is in Denver, Colorado, in August, and, as the old saying goes, "Breed 'em all Simmental!" ■

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by *Randie Culbertson, PhD*
IGS Lead Geneticist

As some readers might be aware, prior to returning to school to pursue a PhD, I had a career in the horse industry. On occasion, my previous career collides with my current career as a geneticist. I often get the question of how to make genetic improvement in horses and/or what tools are available to horse breeders for making breeding decisions. The bottom line is there is a serious lack of genetic tools available for horse breeders here in the US to use to make substantial genetic improvement. The horse industry is a prime example of a species in which selection is based predominantly on sire and dam phenotypic performance. The horse industry, for the most part, lacks the tools for making substantive genetic improvement. So why am I writing an article about genetic improvement for horses in *the Register*? Because I see the horse industry as a cautionary tale of how the lack of genetic tools, such as EPD, can hinder genetic improvement, and how the use of pedigree and phenotypic selection in lieu of EPD can hinder the improvement of performance.

Horse racing is a great example of how pedigree and phenotypic selection has affected performance. When it comes to measurable phenotypes for genetic selection, racing times would be an ideal trait. This trait is routinely measured with extensive pedigree information along with ample information to account for environmental influences, but instead of utilizing a genetic approach for selection, the racehorse industry relies on pedigree selection. It is important to differentiate between pedigree selection and how a pedigree is used in a genetic evaluation. The term pedigree selection refers to breeding decisions made based solely on the phenotypic performance of ancestors in the pedigree, with no accounting for environmental differences. In the context of a genetic evaluation, the pedigree is a vital component for generating EPD. The evaluation accounts for environmental effects, and the pedigree ties in all the performance data of relatives on a genetic level. If there is ever a question of influence of pedigree selection for Thoroughbred racing, just tune in to the Keeneland yearling sale where colts are selling for millions based on pedigree. The first foal crops from Triple Crown winners are always the most valuable, but the value of subsequent foal crops tends to decrease as the previous foals fail to live up to the expectations of their famous sires.

Given the value of these horses, what has pedigree selection done for improvement of racing times? Have racing times for the three Triple Crown races improved over time? In fact, no. Since Secretariat won the Triple Crown in 1973, race times for the Kentucky Derby, Preakness, and Belmont have flat-lined in the last 48 years.

When you compare this lack of improved performance in race times to other industries using genetic tools for selection, it is clear how these tools can drastically increase performance over time. The dairy industry has placed significant influence on genetic selection. This has resulted in increased milk production of a dairy cow by 2.6 times over the last 50 years, resulting in a 60% increase in milk production with 30% fewer cows. In that same timeframe, the beef industry is producing 25% more beef with a 6% decrease in cattle. These increases in production for the dairy and beef industries can be attributed to the use of genetic tools, such as EPD, to improve cattle production. Although most of the horse industry does not utilize genetic tools, the breeding of sport horses, or Warmbloods, in Europe do. The stud books for European Warmbloods are performance-based, allowing for the collection of performance and pedigree information to run genetic evaluations and publish EBV (which is equivalent to an EPD multiplied by two). European-bred sport horses are dominating equestrian competition in the US and internationally. An example would be this summer's US Olympic Show Jumping team, which is comprised of horses all bred in Europe. If the horse racing industry is any indication, the use of pedigree selection for genetic improvement has limits for making substantial improvement on performance, compared to industries using genetic tools such as EPD. ■

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Rooted in Data, Invested in Customer Success

Superior Beef Genetics develops high-quality, proven cattle for their commercial buyers.

by Emme Demmendaal

Combine the commitment to provide high-quality genetics to commercial customers with the dedication to collect data from grass to grid, and you have a recipe for success in the beef industry. Superior Beef Genetics (SBG), a partnership seedstock and commercial cattle operation, fits the bill on all counts.

Located on the flat prairieland of Lamar, Missouri, the Massa, Kentner, and Runnels families jointly manage 400 registered and 250

commercial Simmental, Angus, and SimAngus cows, alongside a custom feedlot. Through hands-on data reporting to make strategic breeding decisions, SBG develops performance-oriented bulls and heifers built for handling the hard fescue that characterizes much of the South, yet adaptable to the North's colder climate.

The partners manage their herds separately but collectively remain committed to creating quality genetics for their customers.



The Massa and Runnels family, top row left to right: Allie and Clay Runnels, Russ and Denny Massa, Makensy (Massa) Schmidgall holding her daughter Nora Schmidgall, her husband Isaac, holding their son, Elliot Schmidgall; Dylan Massa. Bottom row left to right: Olivia, Elsie, and Cole Runnels.

Selecting Genetics for the Customer

Rooted in dependable cow families and proven genetics, Superior Beef Genetics finds that by looking at the big picture they stay committed to data reporting and genomic DNA testing. The information they receive back from the Association helps them make more informed decisions for their own herd, develop the best bulls and replacement heifers for their customers, and ultimately to provide the highest-quality animal protein to the consumer.

“We put a lot of emphasis in providing our customers with as much actual data as we possibly can so they too can see what these genetics are capable of doing,” SBG partner, Allie (Massa) Runnels explains. “We have a few customers who finish out their own cattle and get paid on the grid. So we understand the importance of the value-added product in the end.”

The Massa and Runnels families are predominantly spring calvers, while the Kentners primarily breed for fall calvers. Spring calving starts in mid-January and wraps up 60 days later, right before their production sale on the fourth Tuesday in March; while fall calving is from the first of September to mid-November. The operation usually implants up to 75 recipient cows and AI breeds another 150 females to capitalize on proven, modern genetics, and select top herd sires for cleaning up the rest of the herd.

“At the end of the day, it’s our job to provide the most meat, in the most efficient manner, to the world,” she says, explaining why SBG collects data from birth weights through weaning, yearling, and the mature cow herd. “We have to continue working to find a way to make healthy, high-quality animal protein the most efficient way possible. That’s why as seedstock producers, we collect data — we test our breeding stock — this information helps the commercial cattleman with the next step in producing the best beef possible.”

In October, as they are finishing fall calving, spring-born calves are weaned and sorted. All retained bulls are put on performance tests by the middle of November, and the calves that don’t make the cut are steered and sent to their feedlot. Fall-born calves are weaned and sorted by mid-May, and the bulls are on test by July. SBG feeds out and tests their bulls themselves and collects carcass ultrasound on each bull for a better prediction on carcass traits like IMF and REA.

Combining DNA genomic testing with phenotypic data has improved their ability to reliably select their top genetics, Runnels says. “I think what made the biggest difference for me was the improved accuracy on our EPD. Along with testing our bulls, genomic testing and parent verification were just one more step that we have been able to take in order to ensure the validity of our genetics, allowing us to stand even firmer behind our product.”

In 2018, SBG changed their sale from an open-house, private-treaty sale to an auction. The change allowed their customers and current market to set the price. She says, “My brother and I both presented the older generation with the idea of switching our sale format over to a live auction. We were tired of pricing our animals and we felt it was time we let the customers decide what they were worth. It was a risk to switch formats, but it’s also been our biggest blessing.”



Data collection and reporting is at the heart of Superior Beef Genetics management practices.

Three years ago, commercial replacement heifers were added to the annual sale for commercial customers who didn’t have the ability to develop replacement females themselves. “We understand the struggles of the feeder cattle market. We understand the neverending list of input costs and the difference conception rates can make on all of these. Not everybody is in a situation where they can develop their own replacements.”

Runnels continues, “Some of our biggest customers are row crop farmers that have a piece of ground that they are unable to farm and they just need to put cows on it. They need a bull they can depend on to breed their cows, cows that are easy fleshing as well as handle with ease, and in the end wean off good calves that they can get a good price for. That’s what we aim to sell.”

When making selection decisions for replacement heifers and sale bulls, stayability and balanced traits are the forefront of decision making. “We like high-performance EPD and we like balance. Our focus on Stayability always seems to rise to the top in our herd as well, as we know the true importance of a long-lasting cow family, and the difference retaining those cows year after year can be on your end dollar.” Runnels summarizes, “We like a pretty cow that is deep bodied, easy keeping, and overall just a good momma with lots of milk.” By paying attention to feet and legs, docility, and moderate-framed cow families, Runnels feels they are providing long-term genetics for their customers. “First and foremost, our cows also have to be easy keepers, especially the bulls we sell to our customers. We watch overall gain and phenotype, but because they are raised on fescue, our cattle can transition to almost any climate.” *(Continued on page 14)*

Rooted in Data, Invested in Customer Success

(Continued from page 13)



When sorting off replacement heifers and sale bulls, stayability and balanced traits are at the forefront of decision making.



Superior Beef Genetics find that the data they report to the Association helps them make more informed decisions for their herd and their customers.

Commercial and Feedlot Invested

In addition to testing their own bulls, SBG uses their own genetics in their commercial cow herd and feedlot. The commercial herd is composed of the half-Simmental, half-Angus genetics. Runnels says, “In my opinion, the perfect commercial cow is the SimAngus cow, half Angus, half Simmental. They just do a really outstanding job of being low-maintenance females that produce high-quality calves for the feedlot.”

By standing in their customer’s shoes, SBG makes more informed decisions at the seed-stock level. “We take the exact same genetics that our commercial customers are buying, and we use them on our own commercial herd. We are putting ourselves in our customers’ shoes to understand the importance of calving ease, growth, docility, carcass traits, and so much more within the commercial cattlemen’s world.”

Initially, the commercial calves were predominantly sold after weaning, but a few years ago, SBG started focusing on back-grounding and feeding out their genetics to get a better picture of what the calves were doing after weaning.

A custom feedlot was built to feed out SBG calves as well as a few other customers’. “It’s been a new option for people in the area because there are not many feedlots or custom feeding opportunities close by.”

Last year, SBG finished around 80 head of steers and heifers in their feeding facility. By retaining ownership, they got data back on the carcass quality. “After watching the calves all the way through from calving to rail, we pay closer attention to marbling and ribeye. We don’t like to single-trait select, but if two bulls have it all, we use the bull with better carcass traits.”

The commercial herd and feedlot also gave Superior Beef Genetics a feel for how the cattle markets were affected by COVID-19. “With the way the pandemic affected all the processing plants, we couldn’t get our cattle in fast enough when they were ready and had to keep them on feed even longer. With that being said, we did have a few selects due to over-fats, but for the most part, 80% or more were choice and above.”



At that time they had a surplus of corn, so SBG decided to feed out and sell a few animals directly off the farm.

“Once we got past the pandemic issues, it was pretty neat to see how our genetics hung on the rail. Granted, there were outside influences that highly influenced our decision to feed out our cattle, but it was fun to see not only our genetics go to help commercial producers, but also to help people fill their freezers — to give back.”

Tied to Their Roots

Starting back in 1998, Russ and Denny Massa raised commercial cattle using registered Angus bulls from Dave Nichols, Nichols Farms, located in Bridgewater, Iowa. Two years later, Nichols presented an idea to start Nichols Farms of Missouri to the Massa family and three other individuals, including Darrell Kentner, a current partner in Superior Beef Genetics.

The Massa family was introduced to the seedstock industry by working as an extension of Nichols Farms. The operation benefited from Nichols’s guidance, while the partners retained the autonomy to make breeding and selection decisions as each partner saw fit.

Allie Runnels, Russ and Denny’s daughter, says, “We owned and managed our herd on our own, but greatly benefited from Nichols Farms of Iowa’s marketing and advice as we stepped into breeding seedstock.”

Kentner and his wife, Cindy, have been raising Simmental cattle since 1995, and with Kentner’s and Nichols’s influence, Simmental was incorporated with the Angus genetics to raise Angus, Simmental, and SimAngus bulls.

(Continued on page 16)

Superior Beef Genetics combines DNA genomic testing with phenotypic data to improve their ability to reliably select their top genetics for their buyers.



Rooted in Data, Invested in Customer Success

(Continued from page 15)



Superior Beef Genetics produces all the feed that is used to raise and feed the bulls.

“There are a lot of hybrids out there, but I can’t imagine any of them working as well as SimAngus does,” Runnels says, highlighting the heterosis that benefits cross-bred commercial herds. “Heterosis is one of the strongest tools with our commercial customers as we feel it can positively change a herd quicker than anything else. SimAngus are moderate-framed, easy to keep, and stay in the herd longer.”

As the years progressed, Allie and her younger brother, Dylan Massa, started to get more involved in the operation as the other two partners of Nichols Farms of Missouri went separate ways. It was around this time that the Massa and Kentner families created their own seedstock partnership operation.

“We stepped away on great terms with Nichols Farms of Iowa and the other two partners when we started SBG.” Runnels shares, “We named our operation after Nichols’s tagline, Superior Beef Genetics. Our roots are still connected to them. We still hold the same values we did with them, and they’ve taught us a lot about what it means to provide for the commercial cattlemen.”

In 2009, Allie married Clay Runnels and their combined herds formed the third partner in Superior Beef Genetics. “Everyone has their own strengths, even down to their herd. We try to breed with the same goals in mind, but we choose different bulls, so there’s always a good variety of bloodlines to meet our customers’ needs.”

While Russ and Denny Massa are still active in SBG, their three grown children, Allie, Makensy, and Dylan, handle most of the daily operations. Allie and Dylan are heavily involved with feeding, data, and herd selection decisions, while the middle sibling, Makensy, helps her husband run a millwright business and is a huge asset to the operation by always lending a hand to help watch kids while everyone is working. She helps out with the cattle and production sale as much as possible.

Allie and Clay are the parents of three children, Cole, Olivia, and Elsie. For Allie, working in agriculture is a part of who she is and how she plans to raise her children. She shares the impact of raising good seedstock and raising her children are all tied together, “At the end of the day, we are commercial cattlemen and cattlemen at heart. We’re just a small piece of the big picture and we are doing all we can to make good people out of our children and feed the world with the most efficient, highest-quality beef as relatively possible. There is no better lifestyle to raise hard-working kids and do your part to make an impact on the world, than that of agriculture.” ■

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Expected Progeny Difference: Why, What, When, and How, Part 2

by *Randie Culbertson, PhD, IGS Lead Geneticist*

This article is the second of a two-part series discussing what, when, how, and why of EPD. In this article, we will focus on the “how” and “when” of EPD. When making decisions for purchasing bulls to add to your bull battery,

how do you know which bull would work best for your breeding objective? Sale catalogs are full of pertinent information. But how do you use this information and when should you use the information provided?

The general rule, when considering an animal on their own individual performance, look at the phenotype. When considering an animal as a potential parent and for improving the next generation, look at the EPD!

How

It is important to remember that EPD are a tool for comparison. An EPD is a reflection of how we expect an animal's progeny to perform on average in comparison to the average performance of progeny from other animals. Let's consider two bulls: Bull A has a weaning weight EPD of 95 pounds and bull B has a weaning weight EPD of 102. This means that if we look at 100 calves from each bull, on average, bull B's calves will weigh roughly seven pounds heavier than bull A's. This does not mean that all of bull B's calves will be heavier than bull A's calves. Some calves will perform better than others. This difference in performance among calves can be due to differences in environment, the dam's genetics (she contributes 50% of the genes to her offspring), and the rule of independent assortment. But when we look at all the progeny from each bull across different contemporary groups, we will see that bull B's calves on average are heavier.

In the last article we discussed how the addition of information can result in an EPD change. When considering younger animals, there is a risk of their EPD changing as more information enters the genetic evaluation. This is compared to older animals with progeny information already incorporated in the calculation of their EPD, resulting in less EPD movement. The level of information included in the estimation of EPD is indicated by the accuracy. Alongside each EPD that is published, an accuracy is also published. An accuracy is defined as the relationship between estimation of an animal's EPD and the “true” EPD for that animal. More simply put, an accuracy is reflective of the amount of information provided on that animal, and is the level of risk associated with each EPD. The lower the accuracy, the less information provided for the EPD estimation, and the higher the accuracy, the more information used for EPD estimation. As an accuracy begins to approach 1, this would mean that these animals have a significant amount of information included in the evaluation, and that their EPD are close to the true genetics for that trait. In addition, as accuracy increases, the amount of potential change for an EPD decreases.

Possible change is an easier way to interpret the amount of change likely in an EPD. When considering a young bull with low accuracy, it is important to consider the amount of change that could potentially occur as data for this specific animal enters into the genetic evaluation. Younger bulls will have a larger possible change range than older bulls with higher accuracy. As an EPD approaches an animal's true genetic value, $\frac{2}{3}$ of the time this

value would be within the possible change range, but $\frac{1}{3}$ of the time the true EPD will fall outside of this window. This doesn't mean that each animal's EPD will change by this amount, but it is the potential change that could occur to an EPD. It gives an indication of the level of risk for each trait and accuracy level.

Along with EPD, accuracies, and possible change, a percentile rank for each animal is also published. The percentile rank is the ranking of an animal based on their EPD in comparison to all animals within the breed population of ASA's registry. Percentile ranks range from 1 to 99, and the lower the number, the higher the ranking of the animal. For example, a bull whose weaning weight EPD is in the 5% percentile rank means that this bull is in the top 5% for weaning weight based on his EPD. Percentile rank does not take into account accuracy; therefore, if this bull has a low accuracy, there is a potential for this bull's percentile rank to change (either up or down) as more information enters the evaluation.

When

When is it appropriate to use an EPD? When genetic improvement is your goal! EPD are a tool for genetic improvement and should be used when an animal is being considered as a parent for the next generation. Looking at a bull or heifer's EPD is an evaluation of that animal's merit on a genetic level, and is the expectation in the performance of their calves on average. When selecting animals as replacements or looking at purchasing a bull for your herd, the value of those animals is their genetic potential for producing future generations of calves with high performance.

When is it appropriate to use phenotypes? Phenotypes are important when the performance of the individual animal itself is being considered. When terminal steers enter a feedlot, their phenotype for feedlot and carcass performance become crucial for profitability, but these steers themselves will not be producing the next generation of calves. The genetics of these steers will not be passed on to the next generation. However, the phenotypes on these particular calves are extremely valuable. Not only for operational profitability, but in the context of genetic improvement, these phenotypes are extremely valuable information to the genetic evaluation, as well as improving the genetic prediction of the bull and dam of the calves. ■

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Innovation Meets Application



by Jackie Atkins, PhD

A lot has changed at the American Simmental Association in the last five years. Five years ago, we moved into our new headquarters. We were gearing up for our 50th anniversary and preparing to write the history book. We were launching the International Genetic Solutions (IGS) Feeder Profit Calculator, and anticipating this new way to encompass management and genetics to estimate the relative value of a set of feeder calves. The genetic evaluation used the previous Cornell software and older models, including a two-step blending process for genomic information, and three times a year a fresh evaluation was released. Now we are settled in the headquarters, the IGS FPC has years of growth and success under its belt, and we are cranking out weekly genetic evaluations using improved methods: single-step genomics and the BOLT software system.

The demographics of genotyped cattle looked really different five years ago. The vast majority of genotypes were on top-end bulls creating: 1) genomic knowledge that had some bias with mainly high performance animals represented; 2) a very limited number of females genotyped, making maternal traits harder to predict with genomics; and 3) a void of terminal cattle with genotypes.

At the end of 2017, the ASA Board of Trustees passed a program that was the first of its kind. That program was the Cow Herd DNA Roundup (CHR). Enticing members to genotype their entire cow herd for a greatly reduced rate, this program skyrocketed the number of females genotyped in the genetic

evaluation. Further, genotyping the entire cow herd reduced the bias caused by only testing the elite genetics. Additionally, members who sent in complete records for mature weight with either a body condition score or a hip height were given another \$5.00 back per animal.

The CHR was and still is wildly successful for the genetic evaluation. Looking at male to female rates of genotyping alone, we now have over 57,000 females genotyped, compared to 49,000 males entering the evaluation for the ASA. The additional mature weights have spearheaded development of an improved mature weight EPD given the increase in records. This has also paved the way to investigate maternal genomic effects from direct genomic components for traits, such as calving ease and weaning weight, that wouldn't have been possible without a large set of female genotypes.

The CHR also brings great benefit to members by simply reducing the price for genomically enhanced EPD. Having parentage markers on the entire cow herd and parent confirmation of all those animals is a tremendous benefit alone. Plus, adding genomic information to the cow herd EPD is like adding a lifetime of calves to each cow's evaluation, making future selection and mating decisions much more precise.

By the fall of 2018, the board and staff launched another program to target more carcass records and genomic tests on terminal calves. This program, eventually named the Carcass Expansion Project, has increased our annual carcass records by fivefold, and added thousands of carcass records on genotyped cattle — which was close to zero previously. Having this data in the evaluation has already increased our ability to predict carcass traits with a DNA test for all of our members.

ASA's genomic research projects deliver more accurate information to members at greatly reduced costs, while adding highly sought-after information for future advancements in the genetic evaluation.



Last summer, the board passed another innovative program called Calf Crop Genomics to offer research price points for members who test their entire calf crop. This program was built to reward members who submit genomics on the entire calf crop to reduce selection bias even further and provide more accurate EPD to members prior to their selection decisions. Again, rebates are offered for phenotypes on the entire calf crop at birth, weaning, and yearling, with additional incentives for carcass records. While this program is just turning one year old, the membership has already bolstered the genomics in the evaluation by over 13,000 samples in a year.



All research projects require tissue sampling unit (TSU) for the DNA sample.

I am amazed by the cumulative results of these three programs. Through these programs we added over 70,000 genotypes to the evaluation in the last four years. We now have over 90,000 mature weight records on 60,000 unique cows and 6,000 genotyped terminal calves.

We have been so fortunate to partner with Neogen Genomics on these research projects. It would not be possible to offer the research price points without their generous reduction on the DNA research costs. Since Neogen became an IGS partner, they have extended genomic research price points to all the IGS partner breed organizations. The IGS evaluation now has multiple breed organizations launching their own genomic research programs.

Already these programs have brought more knowledge to our members on their cattle. We have already seen improvements to the amount and quality of information going into the genetic predictions. The promise of what this data can do to further improve our ability to make future genetic predictions is thrilling. This took significant commitment from our members, our staff, our partner Neogen Genomics, and our board. We don't take that commitment for granted. We are excited to see what comes in the next five years. ■

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



2021 Beef Improvement Federation Symposium

Hybrid model proved successful in Iowa

by Jackie Atkins, PhD

The 2021 Beef Improvement Federation (BIF) symposium met for the summer conference in Iowa at the end of June. Iowa State University host group put together a thought-provoking symposium with meaty talks covering beef on dairy implications, understanding consumer trends, gene editing and other precision technologies; and breakout sessions highlighting genomics and genetic predictions, producer applications, efficiency and adaptability, emerging technology, end-product improvement, and selection indexes. The 2021 BIF Symposium was the first hybrid model, with nearly 400 people present in person and an additional 100 tuning in virtually. The BIF communication group did a great job juggling the complications of their first hybrid meeting.

Joe Mushrush, BIF retiring president, gave a powerful talk on the meaning behind BIF and what we all have in common. Mushrush explained the interesting connection in BIF with competitors coming together and collaborating for the advancement of the beef cattle industry. BIF stakeholders predominantly fit one of three profiles: 1) beef cattle producers (seedstock and commercial), 2) industry organizations (state associations, breed associations, and businesses in the beef industry), and 3) researchers (universities and research agency personnel). People from each of these sectors come to BIF and find ways to help each other and the greater beef community continue to improve. Mushrush highlighted the business term “cooperation,” which means a collaboration between business competitors for mutually beneficial results.

BIF Symposium welcomed 400 in-person attendees and nearly 100 virtual attendees in the first hybrid event.



Simmental and SimAngus producers John Irvine (left), Kent Brunner, and Willie Altenberg catching up in the hall.



ASA staff member and BIF Board Member, Jackie Atkins, visits with Sarah Jones of Red Hill Farms, and ASA staffer, Lane Giess



A particular highlight for ASA was the presentation of this year's Seedstock Producer of the Year. There were many high-level seedstock producers nominated, including Loving Farms, a shorthorn breeder in Pawnee, KS; Nextgen Cattle Company, a Charolais and Beefmaster herd in Paxico, KS; and Woodhill Farms, an Angus breeder in Viroqua, WI. The Seedstock Producer of the Year went to Cow Camp Ranch and the Brunner family based in the Flint Hills of western Kansas. Kent and Jane Brunner were there to receive the award. Cow Camp have been exemplary Simmental and SimAngus breeders focused on data collection from birth through harvest, and adding thorough genotyping in more recent years. This is a well-deserved award. Congratulations, Brunner family!

International Genetic Solutions (IGS) was showcased throughout the week as well, with a successful IGS social Tuesday evening, several staff and breeders from breed organizations in IGS mingling in the halls, and Dr. Randie Culbertson, IGS's Lead Geneticist spoke in the Emerging Technology breakout session Thursday afternoon. Culbertson's talk addressed how the IGS Multi-breed Genetic Evaluation is capable of doing genetic evaluation with multiple breeds at one time, accounting for breed effects and adjusting for heterosis to allow all to be on one directly



Dr. Randie Culbertson explains the connectivity among the IGS breed databases.

comparable base. Culbertson explained how the single genetic evaluation for all the breeds was beneficial in adding more data (and thus more accurate predictions) to one evaluation than any single breed organization would have on their own. For example, the Red Angus Association of America tripled the progeny records on their sires who had calves in other breed association databases.

Matt Perrier will serve as the 2021–22 BIF president and lead the board through a strategic planning session and symposium held in Las Cruces, New Mexico, next June. BIF in New Mexico should be an interesting location with very different production challenges than those in Iowa. Hope you can join us next year in New Mexico! ■



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Junior Simmental & SimAngus™/SimGenetics
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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.

5 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, Ph.D.



Matt Spangler, Ph.D.



Bob Weaver, Ph.D.



Wade Shafer, Ph.D.

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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- ◆ 25+ weaning weights
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- ◆ 10 marbling scores
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All this from a test you can complete before you wean the calf.

Best Practices for Genomic Testing

1 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 offers the Calf Crop Genomics (CCG) program to offer 50% off GGP100K test for breeders who commit to genotype the entire calf crop. See sidebar for more details.

2 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 historically 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.

3 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.



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Simmental and Bison Genomes Released



*Plains bison bull like that used in the interspecies cross.
Photo courtesy of USDA, ARS.*

The first reference-quality genome assemblies for the iconic North American Yellowstone bison and the Simmental cattle breed have been published in the *Journal of Heredity*. Animal genome assemblies provide genetic “blueprints” for how they develop and pass on information to their offspring.

The bison assembly will be used in conservation efforts to maintain genetic diversity, and to study bison evolution by comparing DNA obtained from fossil specimens sampled from permafrost in the Arctic Circle. The Simmental cattle assembly will contribute to an international effort to survey existing cattle breeds around the world to preserve their genetic diversity and identify variation useful for improving beef and dairy traits in different environments. The two genomes are released together because of the unusual way they were created: a single individual hybrid animal from a bison bull and a Simmental cow. Each cell of the hybrid animal contained one copy of the bison and one copy of the Simmental cattle genome.

Researchers used a process called trio-binning, wherein the genome of a single individual and its purebred parents are fully sequenced. With interspecies crosses, this results in a complete, highly accurate genome assembly from each species. These extraordinary high-quality reference genomes meet or exceed the most accurate and complete mammalian genome assemblies to date.

These resources were created by researchers from the USDA’s Agricultural Research Service at the US Meat Animal Research Center (USMARC), the Beltsville Agricultural Research Center (BARC), the National Animal Germplasm Program (NAGP), and the US Dairy Forage Research Center (USDFRC). This effort was in partnership with the American Simmental Association (ASA), together with university partners at the University of Nebraska–Lincoln (UNL), Colorado State University (CSU), and the University of California — Santa Cruz (UCSC).



Simmental donor cow (BHR LADY SIEG C235E) and her calf from the previous year. Photo courtesy of Michael Heaton.

According to the authors, “The best genome assemblies to date come from interspecies hybrids. They are more contiguous and accurate than those from individuals of the same species.” This was previously shown with the yak–Scottish Highland cattle cross.

“This high-quality bison genome provides a snapshot of the current state of buffalo in North America,” says professor Beth Shapiro, whose group led the bison assembly and uses ancient DNA to study evolutionary biology at UCSC. “It will be useful for comparing to ancient bison genomes, which are too fragmented to assemble on their own. From this we can infer the natural history of the species and identify when and where cattle may have introgressed into bison.” The data also shed light on how much the near-extinction and intentional crossbreeding of bison and cattle have affected existing herds.

The reproductive effort to produce the hybrid animal was accomplished with Simmental producer Fred Schuetze, president of the World Simmental-Fleckvieh Federation, and managing partner of SOT (formerly with Buzzard Hollow Ranch in Granbury, Texas), and the assistance of Drs. Brad and Todd Stroud of HoofStock Genetics. The donor cow was a fullblood Fleckvieh Simmental, a breed recognized for its fast growth and beef yield.

“From its founding in 1968 to this day, ASA has been committed to leveraging cutting-edge science and collaboration to accelerate genetic improvement for its members and the beef industry. That unwavering commitment has gained ASA the reputation as ‘the science breed’ and this project illustrates that notion,” says ASA executive vice president, Dr. Wade Shafer.

“The completion of this project sets the new standards for genetic improvement,” Schuetze adds.

The Simmental assembly will be compared to previous genomes of Angus, Hereford, Brahman, Highland, Holstein, and Jersey breeds, along with others emerging from a

USDA-led effort to sample the 600 or so breeds existing around the world, to identify genetic components that lead some breeds to excel at dairy or beef production, or to thrive in tropical, subtropical, temperate, or subpolar environments. The authors conclude, “These assemblies represent the application of the latest technologies for genome assembly and they provide unprecedented insights into the nature of how evolution and domestication have shaped the genomes.” An improved understanding of how selection has affected the genome will help to speed genetic progress for precision agriculture and to avoid counterproductive breeding before it happens, providing another tool for increasing beef and dairy production important for food security, while maximizing sustainability. ■



Simmental donor cow (BHR LADY SIEG C235E). Photo courtesy of Fred Schuetze.

Read more about this project on the Oxford Academic GigaScience site
GigaScience: <https://academic.oup.com/gigascience>
Search “Genome Assembly yak-Scottish Highland” or go to the article’s URL:
<https://academic.oup.com/gigascience/article/9/4/giaa029/5815405>

2021 Annual ASA Fall Focus

Mark Your Calendar!

August 27-31, 2021
Denver, Colorado

Friday, August 27
National Western Stock Show (NWSS) tour, CSA cattle display, and live foot and leg demonstration.

Saturday, August 28
Educational Symposium

Sunday, August 29 - Tuesday, August 31
Board Meetings

Hotel Headquarters
DoubleTree, Denver, CO

Co-hosted by



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Simmental Provides Open-breed Registration Promotion

Knowledge is a powerful tool for success.

The American Simmental Association (ASA) recognizes that informed, data-driven decisions improve the bottom line for both seedstock and commercial producers. Making access to complete herd data easier, the ASA Board of Trustees recently passed an open-breed promotion to dual-register cows that are registered with another breed association at the nominal rate of \$5.00 per head for fiscal year 2022. As the ASA runs an open herdbook to any breed and believes strongly in the benefits of crossbreeding, many members of the ASA raise a variety of breeds of seedstock. Dual registry enables breeders to garner EPD from the largest multi-breed beef cattle genetic evaluation with the International Genetics Solutions (IGS), opens opportunities with other programs available from the ASA, and paints a more complete picture of the herd when all cows are in the database.

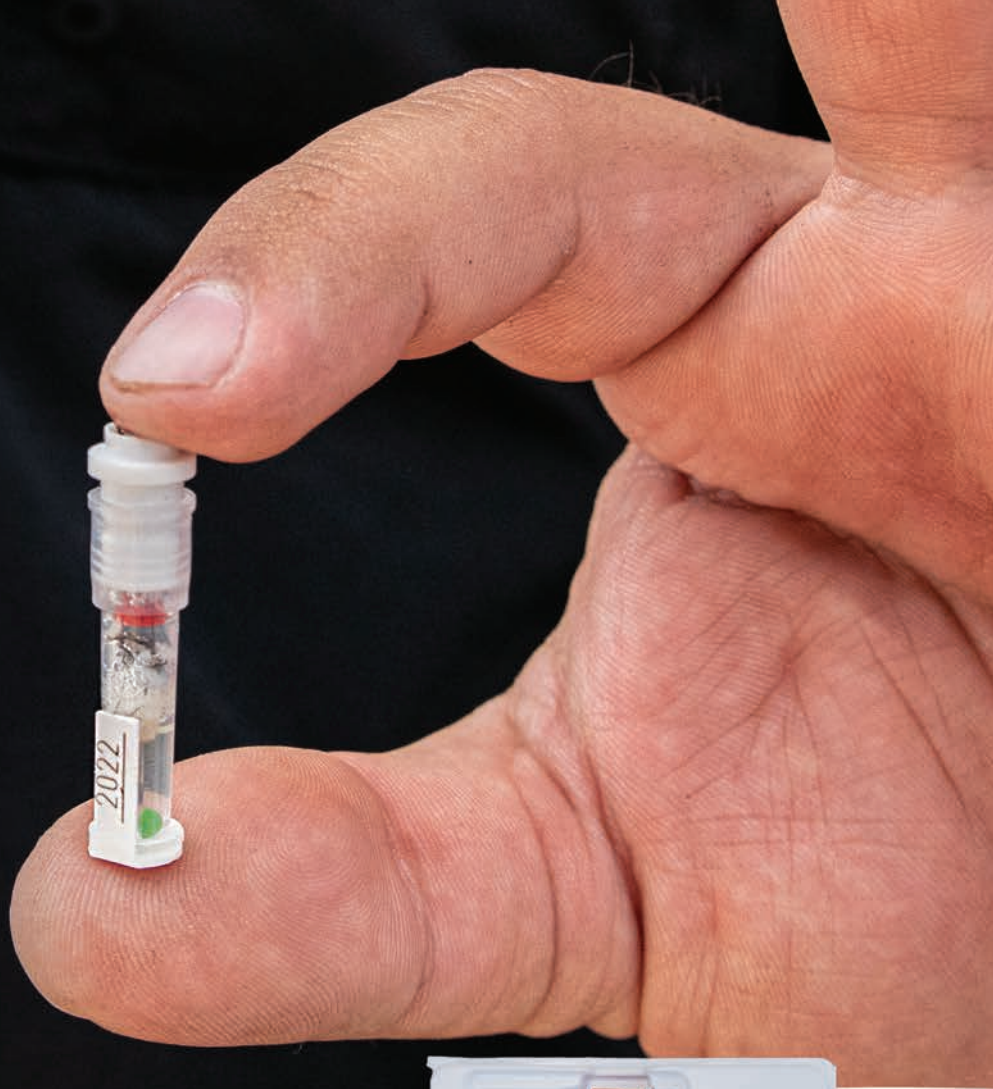
“We are taking away that cost-based hurdle for any person who wants access to the IGS Multi-breed Genetic Evaluation to receive a multi-breed, directly comparable EPD,” shares Chip Kemp, ASA director of Commercial and Industry Operations. “If someone has been intrigued by our database but was holding out, this is the opportunity to invest, and bring a large group of females into the IGS database for a credible multi-breed EPD.”

Starting in July 2021, the ASA will reduce the rate to register a cow already registered in another recognized breed association from **\$17.00 to \$5.00 for the 2022 fiscal year** (July 1, 2021, to June 30, 2022).

ASA’s director of Performance Data Programs, Jannine Story, shares that by dual-registering females, cattle producers take advantage of more meaningful data by creating ties to other offspring and animals in the genetic evaluation. “Not only is this a clear advantage for current members to receive a more complete picture of their herd’s performance through fuller pedigrees,” she says, “but also, this open-breed registration promotion, coupled with our various Total Herd Enrollment options, provides any producer, who may have not had access to a multi-breed evaluation before, timely access to weekly updated, low-cost, cross-breed directly comparable EPD on cows and calves.”

Any person can apply for registration on an animal registered with another breed association. To take advantage of ASA’s open-breed registration promotion, all dual-registration requests must be received or postmarked during the 2022 fiscal year. **To get started, email a list of the other breed association numbers with tattoos to simmental@simmgene.com.** ■





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Former Trustee Passes at 96

Montana Rancher Charley Emmons was a Pioneer Simmental Advocate

Former ASA Trustee Charley Emmons, Olive, Montana, who also served on the Montana Simmental Association Board of Directors and was a longtime champion of Simmental cattle, passed away on June 21, while a resident of the Powder River Manor in Broadus.



Charley Emmons

To say that Emmons lived an interesting life would be an understatement. For instance, Charley was born in Oregon, even though his parents ranched at remote Olive, Montana, in the southeastern corner of the state. Because he was due in the middle of the winter, his mother, Frieda, and his father, Carl, decided it would be best for her to be

closer to medical assistance on the west coast. Charley was born on January 23, 1925, joining his three-year-old sister, Betty Jane, in the Emmons household.

He attended country elementary schools in the Olive area, where he and his sister traveled five miles each day, riding double on a gentle horse. When it came time for high school, the family lacked a vehicle for transporting the children to the nearest school in Broadus. So Charley and Betty Jane were sent to live with their paternal grandmother to attend Sheridan High School in northern Wyoming, where Charley stood out on the football field and graduated with honors.

Emmons served several terms on the Montana Simmental Association Board of Directors and was elected to a three-year

term on the ASA Board of Trustees in 1983. He was re-elected in 1986, serving a total of six years in that capacity. Fellow board members and ASA staff members remember him fondly. "Charley was very thoughtful, and was not one to dominate a conversation," said one ASA staff member. "But, when he spoke up, his peers listened and more often than not, accepted his advice."

Emmon's oldest son, Jerry, had this to say about his father, "He was a man of unmatched vision. One of his greatest visions was development of a flood irrigation system to deliver water to more than 1,000 acres of alfalfa on Emmons Ranch. It was a multi-year project that entailed purchasing a Caterpillar tractor and scraper. More than three million yards of dirt were moved to build dikes and level fields," he said. "Today, we still rely on that system. Dad loved seeing those dikes filled with water from spring runoff."

According to Jerry, Charley's second big vision occurred in 1969 when he decided to crossbreed his largely Hereford cow herd to Simmental bulls in order to produce more milk in the cows and heavier weaning weights on their calves. "There weren't any Simmental bulls available at that time, so he went to Montana State University to learn how to artificially inseminate. He came home, built working corrals and enlisted his entire family to inseminate the whole herd."

Emmons was predeceased by Doris Jean, his wife of 58 years, a granddaughter, and a great-granddaughter.

He is survived by three sons: Jerry (Christine), Tom (Ann), and Barry (Marilyn); two daughters; Peggy Emmons and Julie (Steve) Stoddard; 13 grandchildren; and 26 great-grandchildren. ■

Reserve Your Space Now

September Register



Contact:

Nancy Chesterfield
nchesterfield@simmgene.com

Rebecca Price
rprice@simmgene.com

or call 406-587-2778

Late Fall SimTalk



In This Issue:

Performance Advocate Program Enters Eleventh Year
An Industry for the Future
What Can Breeders Do to Improve the Accuracy of EPDs?
Performance Data Collection Timeline and Tips
Beef Abroad: Insights into the Scottish Cattle Industry
No is a Power

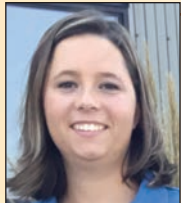
Deadline August 3

Deadline September 21

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Jannine Story



Emme Demmendaal

To help with your planning, here are the turnaround times you can generally expect:

- ▶ Voicemails returned within 1 business day
- ▶ Emails responded to within 2 business days
- ▶ Registrations completed within 7 business days
- ▶ Foundation registrations completed within 2-3 weeks

Data Processing Support



Marni Gaskill



Heidi Todd

Please include the following information in your communication with the ASA:

- ▶ Membership number
- ▶ Job or invoice number
- ▶ Registration number or tattoo of animal(s) in question



Amber Coila



Bailey Abell

For frequently asked questions and answers, check out simmental.org/newmembers.



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Most Prolific Donor Cows

Cows listed must have had at least one calf born (ET or natural) since 6/30/2019. This list is sorted by total numbers of calves reported.

\$API = All Purpose Index \$TI = Terminal Index

Animal #	Name	Birth Date	Breed	# of Progeny	\$API	\$TI	Owner Name
2106820	SOSF Ebonys Joy L-123	2/3/01	PB SM	286	123.1	63.2	Walsh/Groves/Double S/Janssen
2446017	Miss Werning KP 8543U	2/17/08	PB SM	257	124.5	71.1	Dale Werning
2584182	HF Serena	2/8/11	PB SM	224	115.4	79.6	Trennepohl Family Farm/H2O's Farm
2711735	Haras Hairietta Clone H4W	1/23/09	3/4 SM 1/4 AN	216	120.1	72.1	Hara Farms
2385520	Miss Knockout 74T	3/15/07	PB SM	207	95.8	62.1	Scott Hobbs/Jones Cattle/102 Cattle Co
2289443	Lazy H Burn Baby Burnr34	5/11/05	PB SM	206	106.9	63.9	Rocky Hill Farms
2304803	Miss Werning 534R	3/26/05	PB SM	204	86.6	55.1	Dale Werning
2317687	LRS Ms Dakota 559R	3/21/05	PB SM	202	118.3	76.8	Taylor Farms
2410956	EKHCC Red Jewel 760	4/25/07	PB SM	199	114.9	73.1	Jaron & Kevin Van Beek
2291327	GCF Miss Caliente	1/1/05	PB SM	195	92.1	49.1	Dr. Josh Ervin
2527626	CCR Ms Apple 9332W	9/21/09	PB SM	195	115.5	73.9	Bichler Simmentals
2154953	SVF NJC Magnetic Lady M25	2/16/02	PB SM	188	114	64.4	Sloup Simmentals
2387869	SS Magnificent Dreams	1/8/07	PB SM	187	133.1	69.4	Kasl Simmentals
2437282	HS Stop And Stare U118L	2/13/08	PB SM	187	112.8	76	Brooke Polzin
2334099	Hooks Sonya 20S	2/21/06	3/4 SM 1/4 AN	168	184.6	88.8	Sonya Profit Partnership
2334127	Hooks Sarita 4S	2/12/06	3/4 SM 1/4 AN	168	142.8	75	Clear Springs Cattle Co
2481646	STF Onyx 451W	1/2/09	PB SM	160	93.8	51.6	Fenton Farms/Sloup Simm
2529932	TJ Ms 38W	1/26/09	PB SM	158	162.2	88.2	Bichler Simmentals/Lazy C Diamond Ranch
2434417	RP/MP Right To Love 015U	3/8/08	3/4 SM 1/4 AN	152	115.3	75.3	Chad S. Ruda
2435038	LLSF Cayenne Up401	4/1/08	PB SM	141	101.6	64.7	Bichler Simmentals/Lazy C Diamond Ranch
2288113	HPF Ms Honey R007	1/18/05	PB SM	140	95.7	57.1	S&S Simmentals
2575604	TJ 22X	3/16/10	PB SM	138	148.1	83.1	Eagle Pass Ranch
2427972	Miss CCF Sheza Babe U2	1/3/08	PB SM	134	98.6	56.3	Double J Ranch
2409588	JF Ebonys Joy 709T	2/19/07	PB SM	133	116	63.2	Hoffman Ranch
2227847	HTP SVF Dew The Stroke	12/4/03	PB SM	131	123.3	68.8	S Cooper/Forest Brook/See Farms
2435596	JS Flatout Flirty 46T	9/15/07	PB SM	129	108.8	65.7	Loschen Farms
2281576	AJE Gabby R7	2/18/05	PB SM	123	122	75.2	Hilbrands Cattle Co
2637396	WHF/PRS/HPF Alley 247Y	9/7/11	PB SM	123	119.9	71.8	Parks Show Cattle
2606756	KS Penny X395	2/27/10	PB SM	122	118.1	70.7	Roger A. Kenner
2357410	KA TCF Independence S30L	7/4/06	PB SM	121	99.1	56.5	Windy Ridge Simm/Gonsior Simm
2399540	TJ 8T	1/10/07	1/2 SM 1/2 AN	121	163.4	90.8	Lazy C Diamond Ranch
2341061	JF Ebonys Joy 612S	3/13/06	PB SM	119	140.8	71.1	Janssen/Silverstone/Hodgen/Carpenter
2374428	Kenco Miley Cottontail	10/13/06	PB SM	118	112.9	75.1	Barrett G Billingsley
2482168	Hook's Upper Limit 117U	3/18/08	1/2 SM 1/2 AN	113	118.8	70.7	Hook Farms
2385142	Double R Miss 29G T18	2/2/07	PB SM	111	108.1	74.5	Hailey Eads
2427330	Miss CCF Sheza Looker	9/7/07	PB SM	110	105.7	55.7	Steven Cooper/Buddy Ogles
2290840	SVF NJC Ebonys Charm R29	3/4/05	PB SM	108	109.6	70.7	Welsh Simmentals
2584931	HPF/Borne Knockout Y030	1/17/11	PB SM	108	101	67.2	Shoal Creek Simmental
2623258	Miss Star Above	3/9/11	3/4 SM 1/4 AN	107	100.7	66.9	Kori McLaughlin/Tree Lane Farms
2292038	JF Reba 5302R	2/24/05	PB SM	106	127.7	65.3	Pleasant Hill Farms
2521166	KLS Diamond W516	5/15/09	PB SM	106	118.9	69.8	Jones Show Cattle/Campbell Land & Cattle
2587614	SWC Ruby Yeti 143Y	3/18/11	PB SM	105	108.7	71.6	Shipwreck Cattle/Ruby Cattle Co
2764813	HILB Crazy N Love A475S	3/8/13	PB SM	105	97	59.9	Hilbrands/Jass
2387878	SVF NJC Jewel S306	9/17/06	PB SM	101	131.8	69.9	New Beginnings Cattle Co
2478423	J&J Queen 414	1/29/04	PB AN	101	115.5	67.2	Fred Shultz
2429851	MSR 7828 Of 2094 Matrix	9/15/07	1/2 SM 1/2 AN	99	132.3	65.6	J-Six Farms, LLC
2151482	NJC Lexus	9/7/01	PB SM	98	113.3	60.1	Don Boysel
2385100	Lazy H Ebonys Pride T47	4/12/07	PB SM	97	128.7	64	Heartland Simmentals/Morris Cattle



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Contact lginess@simmgene.com for more information regarding both programs.



American Simmental Association

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DNA Requirements for Foundation-Registered AI Sires and Donor Dams

SimGenetics animals are frequently cross-bred, which means members are required to navigate the DNA requirements for other associations and discern whether or not the completed testing satisfies ASA requirements. Each association has its own DNA testing requirements for AI sires and donor dams, and foundation-registered sires and dams are required to meet ASA's requirements regardless of breed. Below is an outline of what is required, examples of some common scenarios, and answers to frequently asked questions.

ASA requires a high-density test equivalent for all foundation-registered AI sires and donor dams.

- Each association outside ASA may have a different designation for this test. For example, the American Angus Association may denote the test as a GS, or PF50. Some associations denote a high-density as a 50K, but others call low-density panels a 50K. Because of this, ASA requires written clarification from the respective association on whether or not the panel was high-density.

ASA requires that all AI sires and donor dams meet ASA's genetic defect requirements.

- ASA will accept defect testing results and/or statuses from any association, and from any lab. However, it is common for other associations to have less-stringent requirements for AI sires and donor dams. For example, some Maine Anjou or Chianina animals are only tested for PHA and TH, but will have either Angus or mix-breed in their pedigree, and therefore require additional AM, NH, and CA testing.

In the case that an animal has some testing through another association but requires additional testing for ASA, it may be possible to request that the other association pull the sample, run the required testing, and then share that information with ASA. It is important to make sure that the other association is able to do a high-density genomic panel.

- An AI sire or donor dam may be "approved" for use with an equivalent high-density panel, but progeny will be put on genetic hold if defect requirements are not met.

Completing a foundation registration prior to requesting DNA testing may be helpful, as the animal will have a TraitTrac on Herdbook, which can be used to see if defect testing will be required.

Why do foundation-registered AI sires and donor dams have to meet ASA requirements?

- Other associations may have less-stringent requirements for AI sires or donor dams. For example, only parental verification or defect testing may be required. ASA policy states that all AI sires and donor dams must have a high-density test equivalent, regardless of breed.

- It is imperative that members research the DNA testing status of other-breed sires and donor dams prior to purchasing semen, flushing females, etc. The majority of the time, if semen is sold on a sire that isn't approved, the seller will make sure the requirements are met. However, ASA cannot guarantee that the seller or owner will do this. A semen sample can be used for testing AI sires, and, if necessary, someone who doesn't own an AI sire may submit the sample. The submitter will be responsible for the cost.

How can I see if an AI sire or donor dam of another breed is approved with ASA?

- Search the animal in Herdbook. Please keep in mind that other breed association numbers, like Red Angus, may overlap with older ASA registration numbers. If you cannot find the correct animal, call ASA. If you can find the animal in Herdbook, scroll down and click "expanded report." This will show whether or not the animal is approved.
- If you don't find the animal and discover that it isn't registered with ASA, if you own the animal you will need to first complete a foundation registration (see page xxx). Then, you will need to complete the DNA testing requirements if necessary. If you don't own the animal, please reach out to the party from whom the semen or embryos were purchased.

How do I transfer DNA testing information from another association to ASA?

- If an animal is tested through another association and that testing meets ASA's requirements, call the other association and ask that the "SNP parentage file and confirmation of high-density testing, with a date," be shared with ASA. Most associations do this frequently and know the process.

When in doubt, please contact ASA.

- Navigating other associations' testing and ASA requirements can be tricky, as each association may use different terms, have different requirements, etc. ASA's DNA department is always available to answer questions, and even if you are just considering using an AI sire or donor dam of another breed, we are happy to look the animals up and answer any questions you may have. ■

Dual Cow Registry Promotion for 2022 Fiscal Year Only!

Making access to complete herd data easier, The ASA Board of Trustees recently passed an open-breed promotion to dual-register cows that are registered with another breed association at the nominal rate of \$5.00 per head for the fiscal year 2022 (July 1, 2021, to June 30, 2022). Starting in July 2021, the ASA will reduce the rate to register a cow already registered in another recognized breed association from \$17.00 to \$5.00.

For more information on the promotion, go to page 28; and, for more information on how to foundation register an animal, go to page 61.

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WSA Conducts Annual Meeting

The Wisconsin Simmental Association (WSA) met this spring in Tomah for its Annual Meeting. The Pat Monchilovich family was presented with the prestigious “2020 Family of the Year” award for their significant contribution and accomplishments. Also, Emily Mueller has been named to fill the important WSA secretary’s position. The association is now seeking nominations for the 2021 Family of the Year award, to be named at the next Annual Meeting. Serving as junior advisors are: Justin Kimball, Mark Tremaine, and Dylan Warzynski.



The WSA 2021–2022 Board, left to right. Front row: treasurer Frankie Warzynski; vice president Marcus Reinhardt; secretary Emily Mueller. Back row: Dylan Warzynski; president Eric Lee; Dale Prochnow, Jr; Justin Kimball. Not pictured: Shawn Woodford and Bret Paulsen.



The WSA Junior Board, left to right. Front row: secretary Hannah Tremaine; Laurie Zimmerman; reporter Elizabeth Zimmerman. Back row: Jillian Schlewitz; treasurer Brian Zimmerman; vice president Cullen Schlewitz; and president Heidi Strey.

Simmental Part of Breed Bash

Colorado Junior Simmental Association members were part of the inaugural Breed Bash, a state multi-breed field day on June 5 and 6 in Brush, CO. Young cattle enthusiasts had opportunities to interact, win awards, and practice for their national breed association shows.



Brandyn Hill was elected president for the CJSA.

During this event, CJSA also held its annual meeting. Officers elected were: Brandyn Hill of Sterling, president; Blake Fabrizio of Carr, vice-president; and Bradie Midcap of Wray, secretary.

Salesmanship, prepared speech, photography, and Quiz Bowl contests were held June 5. An all-breeds youth showmanship kicked off events on June 6.

More than 70 registered cattle were exhibited in breed-specific shows judged by Cheramine Viator of Texas. For Simmental, pure-bred owned, percentage bred and owned, percentage owned heifers and steers divisions were held. Blake Fabrizio won both the Simmental and the SimGenetics Supreme awards. June 6 culminated with an Overall Supreme Breed Bash Championship drive. Blake’s Simmental Supreme, KLER/HILL Lucille 082H, from the owned Simmental junior yearling heifer division, was selected as Overall Reserve Champion.

Breed Bash was a collaborative effort by junior advisors from Colorado’s Angus, Hereford, Limousin, Red Angus, Shorthorn, and Simmental associations, and Colorado Cattlemen’s Association.

With overwhelming positive feedback, the second annual Breed Bash is being planned for June 4–5, 2022. ■

JBS Pays \$11 Million Ransom to Hackers

Press Release

JBS USA confirmed it paid the equivalent of \$11 million in ransom in response to the criminal hack against its operations. At the time of payment, the vast majority of the company’s facilities were operational. In consultation with internal IT professionals and third-party cybersecurity experts, the company made the decision to mitigate any unforeseen issues related to the attack and ensure no data was exfiltrated.

“This was a very difficult decision to make for our company and for me personally,” said Andre Nogueira, CEO, JBS USA. “However, we felt this decision had to be made to prevent any potential risk for our customers.”

The FBI stated this is one of the most specialized and sophisticated cybercriminal groups in the world. JBS USA’s ability to quickly resolve the issues resulting from the attack was due to its cybersecurity protocols, redundant systems, and encrypted backup servers. The company spends more than \$200 million annually on IT and employs more than 850 IT professionals globally.

JBS USA has maintained constant communications with government officials throughout the incident. Third-party forensic investigations are still ongoing, and no final determinations have been made. Preliminary investigation results confirm that no company, customer, or employee data was compromised. ■

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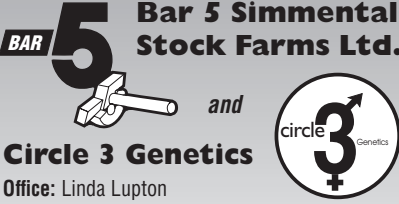
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Email: bar5admin@xplornet.com
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DX

(Continued on page 41)

ASA Provides Open-Breed Registration Promotion

Making access to complete herd data easier, the ASA Board of Trustees recently passed an open-breed promotion to dual-register cows that are registered with another breed association at the nominal rate of \$5.00 per head for the fiscal year 2022.

Starting in July 2021, the ASA will reduce the rate to register a cow already registered in another recognized breed association from \$17.00 to \$5.00 for the 2022 fiscal year (July 1, 2021, to June 30, 2022). Any person can apply for registration on a animal registered with another breed association. To take advantage of ASA's open-breed registration promotion, all dual-registration requests must be received or postmarked during the 2022 fiscal year. To get started, email a list of the other breed association numbers with tattoos to simmental@simmgene.com.

2021 Year-Letter is "J"

The year-letter animal identification letter for 2021 is "J", and will be followed by K in 2022 and L in 2023. The letter H was the year-letter designated for use during 2020.

Per the BIF guidelines, the following letters are not used: I, O, Q, and V.

Tracked Shipping Recommended by ASA's DNA Department

ASA's DNA department strongly recommends members send all DNA samples in a tracked package. This can be through any carrier, so long as a tracking number is available. We also strongly suggest that kits are sent to members in a tracked package, as the extra cost can eliminate delays in regular USPS shipping, and also limit the chance of the package being lost in transit.

Priority shipping is the only way to cut down on the time it takes to get a sample tested, as there are no priority options at the lab. Upon arrival at the lab, testing takes three to four weeks, and additional time is often necessary for genomic panels to run through the evaluation.

Herdbook Update to Birth Weight Ratio and Collection Method

The ASA Board of Trustees has passed a resolution to change the direction of the ratio for birth weights so that larger ratios are assigned to animals with heavier birth weights in their contemporary group and vice versa. This resolution came about to standardize the direction of the ratios so that higher ratios uniformly mean more of that trait.

Additionally, breeders can now indicate if they use hoof tape to estimate birth weight in Herdbook. There is a column called "BwMethod" next to the column where birth weights are entered in the animal entry page. If the weights were estimated using hoof tape, then simply put a T in the "BwMethod" column. If birth weights were obtained using a scale, there is no need to enter anything.

AJSA Schedule and Deadlines

October 2 2021 Steer Profitability Competition Entry Deadline, entry forms available at www.juniorsimmental.org

Board Updates AI Sire and Donor Dams Qualification Policy

Recently, Neogen updated their mid-level genomic panel from ~50,000 SNPs to ~100,000 SNPs. In Herdbook, animals with the former genomic panel are denoted with a 47K or C47K for Cow Herd DNA Roundup (CHR) samples. The current updated genomic panel is denoted with a 100K in Herdbook (C100K for CHR and A100K for Calf Crop Genomics samples).

The ASA Board of Trustees recently approved the updated 100K genomic panel to qualify AI sires and donor dams. Animals with a completed 100K, C100K, or A100K panel will automatically qualify as a donor dam or AI sire. Animals with a completed 47K panel will not qualify and must be re-tested at the 100K level in order to become an approved AI sire or donor dam.

The genomic panel costs \$50 to approve an AI sire or donor dam; add-on options and prices remain the same. The 100K genomic panel continues to be ASA's recommendation for animals that will make a large impact in herds and is the only genomic panel with add-on pricing for coat color, horned/poled, and genetic condition panel. Please contact ASA's DNA Department with questions.

Calf Crop Genomic Testing Project



Calf Crop Genomics is a recent program launched by the American Simmental Association in collaboration with Neogen®. Calf Crop Genomics offers a 50% off GGP-100K genomic test including parentage (\$25 compared to \$50 equivalent test) to participating breeders who test their entire calf crop group. Genotyping entire contemporary groups is important to:

1. Use genomically-enhanced EPD (GE-EPD) for selection decisions,
2. Reduce selection bias in genomic predictions, and
3. 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.

Please visit simmental.org to review the program requirements. Obtaining a DNA sample on the entire calf crop is required. The "entire calf crop" is defined as at least 90% of the birth group of all male calves, all female calves, or both. The CCG program aims to understand the genetics of entire calf crops. Therefore, the following calves are included within the 90% requirement: born alive, but died or removed anytime before weaning; died at birth; or stillborn (full term). If the member is unable to send DNA on 90% of the birth group, they can send 100% of the calves alive at weaning to meet the CCG requirements.

(Continued on page 42)

State Marketplace

(Continued from page 39)

Kansas cont.

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(Continued on page 43)

(Continued from page 40)

Cow Herd DNA Roundup Continues



The ASA Board of Trustees approved Phase II of the Cow Herd DNA Roundup at the 2019 Fall Focus meeting. The project will continue to accept new herds at \$25 per sample for a GGP-100K genomic test. Members must test 90% of their calving-age cows to qualify for the reduced price.

When members submit mature cow body weights and body condition scores or hip heights on 90% of their calving-age cows, they will receive a \$5 credit to their account for each reported cow. Cows must be 18 months of age or older when mature cow measurements are taken to qualify for the \$5 credit. The \$5 credit will only be applied once in an animal's life. If a member received a credit for the phenotypes in 2018 for that cow, they cannot receive another credit for the same cow with a new weight and BCS in 2019.

With the advent of the Calf Crop Genomics Project, the ASA Board of Trustees has amended the CHR program for females younger than calving age. **Heifer calves and replacement heifers are no longer eligible for the CHR research rate as of January 1, 2021, but calving-age cows and new purchases of calving-age cows will remain eligible for the research rate.**

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Performance Advocate Program Update



At the 2019 Fall Focus Board Meeting in Manhattan, KS, the Board passed a resolution to revise the Performance Advocate Program including three major changes.

2021 marks the second year with new guidelines for the Performance Advocate program, identifying top-notch data reporting that fuels ASA's genetic evaluation. Focused on submitting records on at least 90% of the contemporary group, a Dedicated Performance Advocate submits records on at least eight of the 14 traits and a Driven Performance Advocate submits records on at least 10 of the 14 traits.

For participating Total Herd Enrollment members, your score is available on herdbook.org. After you're logged in, go to "Data Entry" and select "Online". On the "Online Data Entry - Inventory" page, the performance advocate compliance is viewable as a bar and half circles for each trait tracked. ■

FOUNDATION HONOR ROLL

Register

The most recent list of people who have made a donation to the ASA Foundation.

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State Marketplace

(Continued from page 41)

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(Continued on page 45)

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State Marketplace

(Continued from page 43)

North Dakota cont.



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(Continued on page 47)



By Larry Maxey,
Founder and Superintendent,
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Author's Note: This is the twelfth in the series of "Our Pioneers." A special thank you is extended to Dr. Bob Hough, author of Simmental's American Journey, published to commemorate the 50th Anniversary of the ASA. Hough assisted me in my pursuit of information about the group that purchased Amor 1A and imported him from Canada in August 1970. That is where the last article ended and I wanted to follow up on that intriguing story. To that end, Hough suggested that I contact Tom Risinger and I subsequently did just that.

Our Pioneers – Tom Risinger

When Amor 1A arrived in the US, events had actually moved at warp speed given the fact that Parisien, Amor's sire, had only been in Canada for about three years. Understandably, there were great expectations for Parisien, who had arrived in Canada from Europe in 1967. Some very wise cattlemen saw the potential to fundamentally change the beef cattle industry in North America. They were right in that belief, as Parisien was a great sire, and Travers Smith and his partners were fortunate to have selected such a fine specimen. The breed's foundation was firm. Amor 1A had been sold by Travers and his SBL partners for the incredible sum of \$154,000 to a US syndicate. One member was from Oklahoma and the remaining six were from Texas. One of those Texans is our featured pioneer for this edition: Tom Risinger.

In Hough's book, he explains Tom Risinger's involvement with the fledgling ASA. At that time, the organization was



Tom Risinger

under the leadership of an interim, unpaid executive secretary, Dale Lynch. The ASA was on shaky financial grounds. With the increasing demand for services, the ASA Board considered Risinger as a capable person "to be brought in to train and help (Lynch) relieve some of the workload."¹ Tom was really not interested in the position but allowed his name to be considered. "When the trustees agreed to hire a full-time executive, Risinger was more than

happy to withdraw from consideration." Don Vaniman, another pioneer, was subsequently hired as the first full-time executive secretary.

In my efforts to learn more about that syndicate, I contacted Tom and Diane Risinger by phone recently. I found them both to be the most pleasant and cordial people one

could ever hope to encounter. Our conversation covered several topics. It became clear that Tom and Diane cherish their memories of their many years in the cattle business. Most cherished, of course, are their recollections of the many wonderful and fine people they encountered along a very long and successful career. Diane explained her role as the keeper of the books and recalled the challenges in trying to keep track of the records of 1,200 head of cattle. And even though they have been retired for several years, they are aware of the rapid advance and interest in performance and genetic information at the forefront of the industry today.

When we got around to the topic of the syndicate that purchased Amor 1A, Diane chuckled at the term "syndicate" so we decided to describe it as the "Group of Seven." Tom recalled the excitement they had in being part of that historic event. As to my inquiry about the makeup of the other six members, Tom advised me that I was "almost too late" as just about everyone involved is no longer with us. He gave credit to Bert Reyes for being the driving force behind the negotiations to purchase Amor. (As a side note, for those interested in the life and legacy of a truly great cattle person, I recommend you check out the history and contributions of this remarkable man, Bert Reyes, which can be found online.)



Tom Risinger (left) was a 1999 Golden Book Award recipient along with Dr. Bob Schalles and Don Burnham.

In conclusion, I am so pleased to have spoken to the Risingers. Over 50 years ago, their interest in performance improvement for their cattle led them to the Simmental breed. They saw the potential to dramatically improve the beef cattle herds in North America by using Simmental genetics, more so in crossbreeding and the many advantages of heterosis. Major investments in genetics, such as their role in the Amor 1A purchase, were risky, of course, but only trial and error over time would determine the benefits. I think it can be safely concluded that the Risingers were highly successful over a long and illustrious career. Thankfully, our Simmental breed has been a direct beneficiary of the contributions. ■

Note:

1. Hough, Bob, *Simmental's American Journey* (Bozeman, MT: American Simmental Association, 2018), 34.

Spicing up your dinner table with tasty, beef-based dishes.

Marinated Ribeye

Editor's note: From the *SimBeef Cookbook*. Recipe submitted by Willow Creek Simmental Farm, Sauk Rapids, MN.

Ingredients

- 1/3 cup hot water
- 3 T finely chopped onion
- 2 T cider or red wine vinegar
- 2 T olive or vegetable oil
- 2 T soy sauce
- 2 tsp beef bouillon granules
- 1 clove garlic, minced
- 1/2 tsp paprika
- 1/2 tsp coarsely ground pepper
- 2 beef ribeye steaks (about 1/2" thick and 12 oz. each)

Directions

In a bowl, combine the first nine ingredients to make the marinade. Remove 1/2 cup marinade and refrigerate. Using a fork, pierce the steaks several times on each side and place in a baking dish. Pour remaining marinade over the steaks and turn to coat. Cover and refrigerate overnight. Remove steaks, discarding marinade. Grill, uncovered, over medium hot heat for 5 – 8 minutes on each side. (Please use recommended guidelines for temperature of meat for doneness: rare = 120 degrees, well-done = 170 degrees.) Heat reserved marinade and serve with steaks. ■

Editor's Note: Each month a favorite beef recipe is presented in this space. The Register encourages and welcomes contributions to this column. Email your recipe to editor@simmgene.com.

State Marketplace

(Continued from page 45)

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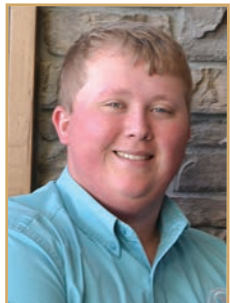
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by Clay Sundberg, North Central Trustee, Arlington, IL

Oh the Places the Gray Jacket will Take You

Although growing up our family raised Angus, I was looking for something different, and in 2011, I got the opportunity to attend my first state field day show. After meeting so many new friends, and having such an enjoyable weekend, we made the decision to also attend our first AJSA Regional Classic that year, which was held in Wisconsin. I was nervous, didn't know anything about the contests, and so, at the time of entries, I picked the three contests that I thought I would be most comfortable with.

As many know, check-in then had a familiar face, who still helps at the Classics to this day. Chance was there to help everyone, and when we arrived, I had this sudden idea to take a leap and participate in all contests, so with Chance's encouragement, I added public speaking. After a week of new friends and great hospitality, our family was hooked. Two years later, we attended our first National Classic, which was held in Nebraska that year. All week, I admired the AJSA trustees as they worked hard to help make sure everyone had a great experience from contest check-ins to the other activities. For the next few years, I got the opportunity to meet so many of the trustees and as I watched their involvement throughout the Classics, I knew I wanted to wear the jacket one day.

That day came in 2017, during the National Classic in Mississippi. I was so excited to finally make the board, but little did I know the experiences I would have in that gray jacket along the way. Later that summer I attended my first Summit Leadership Conference, which was held with the Shorthorn and Gelbvieh Associations. Not only would I get to network with so many more juniors from across the country, but also get to tour unique places like the United States Meat Animal Research Center (USMARC) and GeneSeek (now called Neogen). During my first year, I also got to attend the National Western and Fort Worth Stock Shows to help work the ring with other trustees. I was fortunate to join a board of incredible leaders who were passionate about the Simmental breed, and I spent my first year learning from them.

Along with these trips, my time as a trustee led me to other places, like the YBIC Conference which was held in Ohio, and the Summit Conference held during the Fort Worth Stock Show. But even these trips can't outshine the people I've met along the way. Not only have I gotten to work with numerous other trustees who want to see the breed and its juniors succeed, but I've also gotten to meet those juniors who want to be their best, and have a competitive drive that allows them to excel in the contests and in life down the road.

Now as my last month comes to an end, I can't help but to encourage others to be involved, involved at any level. Whether that's in your own operation, 4-H club, community, state association, or even the national association, BE INVOLVED! There's never been a time I regretted working with others, because there's always something or someone to learn from. With that, there's times where you have to step out of your comfort zone, whether that be introducing yourself to someone in a check-in line, signing up for a new contest, or maybe even running for the AJSA Board of Trustees. You won't regret it. A prime example is when I introduced myself to this kid from Texas I had never met before during the corn hole tournament at my first National Classic. Little did I know, Teegan Mackey would become one of my lifelong friends from across the country. Don't be afraid to try something new. If that includes running for the AJSA Board of Trustees, DO IT! If you've gotten a chance to keep up with our Beyond the Gray Jacket videos, those are just some of the examples of what being a junior trustee has to offer. If you ever have questions, please feel free to contact any of the current or past trustees, along with our amazing junior advisor Darla Aegerter! We would all be happy to answer and assist you in any way possible.

So thank you AJSA, for not only an incredible past four years while I served as a trustee, but the last ten years I've been a member — for every experience and lifelong friend made, because it's through the AJSA, Illinois Junior Simmental Association, and other groups that I am who I am today. Lastly, I couldn't be done without thanking my family for allowing me to do everything and supporting me along the way! ■



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Learning from Past Mistakes Helps Animal Agriculture Move Forward

By *Kylene Scott, High Plains Journal*

Alison Van Eenennaam said innovations in animal agriculture should be celebrated and not hidden.

“When I talk about some of the innovation that we’re doing in animal agriculture, because it seems like sometimes that is a controversial thing in and of itself,” she said. “I’m excited about the research we’re doing — the genetic improvements and the opportunities for continuous improvement.”

Van Eenennaam, extension specialist, animal biotechnology and genomics at the University of California–Davis, spoke at the Animal Agriculture Alliance’s Obstacles to Opportunities 2021 Virtual Stakeholders Summit pre-conference webinar April 28, 2021.

Facts aren’t always enough to alter narratives about animal agriculture that contain misinformation. In her role as an animal scientist, Van Eenennaam shared how the work of all those involved in animal agriculture — nutritionists, geneticists, and veterinarians — have worked to reduce the impact of animal-sourced food. And learn what hasn’t worked in the past to make the future more productive.

“Anyone working in animal ag in 2021 is familiar, I think, with the tradeoffs that result from misinformation and fearmongering around animal-sourced foods,” she said.

One example of this is what happened with lean, finely textured beef, or pink slime. That is “a horrible sounding name for a process to add smaller pieces of lean meat to ground beef to produce a leaner product, which reduces food waste by utilizing as much meat from an animal as possible,” according to Van Eenennaam.

One would think it was a win-win from a food waste perspective, but it wasn’t. It revealed just how much labels matter and how futile it was to try to counteract fear, uncertainty, and doubt with facts, explanations, and data.

“This is also not the first time that there have been ambiguities about the consumption of animal-sourced foods and contradictory dietary recommendations,” Van Eenennaam said. “Thinking back over my lifetime, there’s been the margarine versus butter debate, which turned out to be nothing more than a well-intentioned guess.”

Then there was the “don’t eat eggs versus they are the perfect protein,” along with a few other food battles.

“I guess for me it’s perplexing as a member of an omnivore species that the framing is now that I have to pick a kingdom for dinner, rather than a nice Cobb salad,” she said. It is this demonization of food production methods that “has effectively blocked global farmer access to useful, genetic innovation.”

Van Eenennaam said she’s been incredibly frustrated during her career because of the beliefs of some people and the “research” they do on the internet. No amount of facts, explanations or data has been able to counteract the narrative that GMOs are unsafe — “despite the consensus opinion of every major scientific society in the world. Now we sit with only 37% of US adults who believe that it is safe to eat genetically modified foods,” she said. “And the disconnect around this topic is the greatest of any politicized topic, including evolution and childhood vaccinations.”

An even more controversial topic than biotechnology is animal-sourced foods, she said. One thing that can be agreed upon here is there is a looming demand because of the increased human population and rising incomes in the developing world.

The FAO predicts an increase of 400 million metric tons of animal-sourced foods between now and 2050.

“And just to put that into perspective, that’s about as much terrestrial meat as we currently produce, but it’s what to do about this predicted increase, as to where it gets interesting,” Van Eenennaam said.

Understanding differences

She uses a wizard, prophet, and magician concept to outline the different perspectives people have about food production.

The wizard’s point of view is that if it’s a production challenge, there is a need to change how food is produced. There is a strong strand of optimism or pragmatism underlying this approach as it presents a positive vision of human ingenuity. Little attention is paid to potential negatives of overconsumption of animal products in middle- to high-income countries (MHIC); instead the importance of meat and dairy to consumers in low- and middle-income countries (LMIC) is emphasized. The focus is on consumption patterns of urban populations.

The prophet sees a consumption challenge, requiring changes to dietary drivers that determine food production. Many hold the conviction that excessive consumption of high-impact foods — meat and dairy products — are the leading cause of environmental and health crises humans face. While this perspective strongly emphasizes the diet-related chronic diseases that are associated with overconsumption of animal products in MHIC, it tends to overlook that they provide a vital means to curb malnutrition and stunting in LMIC, especially in rural communities.

The magician views this as a socio-economic challenge — both in production and consumption — and sees it as a problem of imbalance. This group thinks a more localized but diverse system is better able to deliver the full gamut of micronutrients needed for optimal health. They tend to romanticize smaller production avenues and want organic or “agro-ecological” approaches that arbitrarily forbid the use of certain technologies and innovations without acknowledging the resulting yield gap. This perspective tends to favor socio-economic governance of the food system.

Van Eenennaam said the wizard perspective is the one she’s most familiar with because of her background. Nutrition classes taught her that animal-sourced food supplies high quality protein, bioavailable vitamin A, vitamin D3, B12, iron, iodine, zinc, calcium, folic acid, and key essential fatty acids that can be locally difficult to obtain in adequate quantities from plant-sourced foods alone.

“I guess the reason that I have this wizardly perspective is really historical and just looking at the improvements in food production over the last century, as the human population increased from 1.6 billion in 1900 to 6 billion in 2000,” she said. “It’s really agricultural research that’s fueled an avalanche of innovation, which resulted in this dramatic reduction of life-threatening famine during the 20th century. This has really been called one of the greatest unacknowledged triumphs of our time,” Van Eenennaam said.

Over the next ten years, terrestrial meat production is expected to expand by about 40 million metric tons, reaching nearly 366 million metric tons by 2030, she said.

Another detail that caught Van Eenennaam’s attention while putting her presentation together was there’s a large number of cattle in Africa, and it’s now home to about a quarter of the global cattle population. As well, many developing countries had relatively high emissions intensity for beef — partly due to low

production per animal, but also because ruminants are collectively responsible for a disproportionate amount of livestock greenhouse gas emissions by virtue of the methanogens in the rumen producing methane as they digest cellulose.

“The developing world is contributing about 75% of global greenhouse gas emissions from ruminants, and about 56% of the emissions from monogastrics,” she said. “The good news is that there’s a significant potential for further efficiency gains because technologies and practices that reduce emissions are in existence.”

Those new techniques aren’t widely adopted even though many offer environmental and economic benefits. Van Eenennaam said FAO reports there could potentially be a reduction of up to 30% of greenhouse gases from the livestock sector, as well as increased efficiency.

“The livestock sector is identified as a really important stakeholder in delivering on the mitigation efforts necessary to reduce greenhouse gas emissions,” she said. “In other words, don’t alienate the world’s farmers and ranchers. They are actually going to be key stakeholders and partners in trying to address the greenhouse gas emissions.”

In this example, Van Eenennaam said her “wizardly take on the situation” contrasts the prophet take. Prophets see this as a consumption challenge, which requires changes to determine food production and demand restraints.

“This perspective tends to really emphasize obesity related chronic diseases and focuses particularly on industrial animal production or factory farming,” she said. “And pretty much ignores the fact that most animal production takes place in extensive production systems in the developing world, and notably this perspective strongly emphasizes the diet-related chronic diseases associated with overconsumption in middle- and high-income countries.”

Prophets tend to overlook that animal protein provides a vital means to curb malnutrition and stunting in low- and middle-income countries, especially in rural communities.

“Many with this perspective favor meat taxes and other government interventions to alter dietary habits, and is perhaps most epitomized by the Eat Lancet diet that was proposed,” she said.

Van Eenennaam said this thought has kind of morphed into what she’s seeing in the plant-based meat substitutes, cultured meat and other alternatives to animal protein. The driving rationale behind the alternative meats is a simplistic narrative that relates to greenhouse gas emissions per kilogram of protein produced.

With these types of alternatives, they’re pushing to reduce the amount of greenhouse gases coming from ruminants. Compared to monogastrics, ruminants are higher, but there’s a lot of variation in the rates.

“I find it somewhat ironic that the collective work of nutritionists and geneticists and veterinarians, especially in the United States, has dramatically reduced the environmental footprint of animal-sourced food,” Van Eenennaam said.

Those alternative systems have the same goals of reducing the environmental footprint of food in the developed world.

Future implications

According to Van Eenennaam, addressing the future protein demand is going to require effort in the environmental efficiency of food production. This approach on its own is not going to deliver a sustainable food system.

“Equal attention actually needs to be paid by these issues raised by other framings,” she said. “But I would argue that we’re probably going to need wizards and prophets and magicians and plants and animals.”

Van Eenennaam questioned whether we really want to use the fear tactics around agricultural innovations.

“Are we really going to use this FUD tactic — fear, uncertainty, and doubt?” she said. “I think we just have to have a more nuanced discussion that moves away from this nonsensical plant versus animal, synthetic versus natural, extensive versus intensive, GMO versus organic, alternative versus real, good versus evil dichotomies.”

It is possible to improve efficiency of production systems of animal-sourced foods, plant-sourced foods and cultured meat without denigrating any.

“I think there are many practices that are in existence,” she said. “We can actually work as a livestock sector in reducing our greenhouse gas emissions, and at the same time, we can work on strategies to reduce the environmental impact of cultured meat and plant-based alternatives.”

We all have to work toward having compelling stories about how innovation is working toward a shared goal of decreasing the environmental footprint of providing nutritious food to counteract the possibility of blocked access to innovation.

“And that misinformation, fear, and uncertainty is going to actually inhibit our ability to adopt safety innovations in all food producing sectors to the ultimate detriment of global food security,” she said. ■

More than a Carcass Test



“The CMP is a complete young sire progeny test, collecting data from birth to harvest and beyond due to the fact many of the CMP herds retain daughters which ultimately report the earliest maternal data on the enrolled sires.”

- Gordon Hodges, Gibbs Farms

The CMP collects birth-to-harvest data, genomics, and mature cow information.

Look for the Logo!



Enroll your Sire - carcdata@simmgene.com

Summer Pneumonia in Calves a Concern

by Ellen Crawford, Bovine Vet

Dead or sick calves are a scenario that is reported every year in a number of beef herds in the Northern Plains.

“A list of all possible causes for this case can be very confusing to producers,” says Gerald Stokka, North Dakota State University Extension veterinarian and livestock stewardship specialist. “However, depressed, feverish calves with an increased respiratory rate most likely will fit the diagnosis of ‘summer pneumonia.’”

The common question generated by this diagnosis is: Why would nursing beef calves in the pasture with little stress in their lives come down with respiratory disease or pneumonia?

What is Summer Pneumonia?

Summer pneumonia is respiratory disease/pneumonia that occurs in beef calves nursing their dams. The age range of calves affected can be as early as three to four weeks and from three to five months of age.

Calves are born with little to no immunity and are dependent on receiving a passive transfer of immunity from their dam through colostrum. This passively acquired immunity declines through time, and unless the calf develops active immunity through vaccination or exposure to infectious agents, they eventually will become susceptible to pathogens that can cause respiratory disease.

“This is why some calves are susceptible at a very young age (three to four weeks) and other calves become susceptible later,” Stokka says.

Conditions Leading to Summer Pneumonia

Stressful conditions that may precipitate an outbreak of summer pneumonia in nursing calves:

- Certain weather events can increase the risk of developing summer pneumonia. For example, mid- to late-spring blizzards or rain can deprive the calf of normal nursing patterns and produce hypothermia/chilling in calves. Late spring or summer high temperatures can produce heat stress in cows and calves, resulting in greater susceptibility to infectious agents. Also, dry, dusty conditions can increase susceptibility because the calves’ normal innate, clearing defense mechanisms can be overwhelmed, which allows for pathogens to proliferate and gain access to the lungs of young calves.
- Mixing groups together after calving, such as moving cow-calf pairs to pasture or mixing groups together for heat synchronization and artificial insemination procedures, can result in cattle re-establishing their social order and allowing the transmission of infectious agents.
- When calves are sorted for moving or synchronization programs, they can have separation anxiety and nurse infrequently, which increases stress.

These organisms are commonly found in summer pneumonia cases:

- Bacterial organisms, which include *Mannheimia hemolytica*, *Pasteurella multocida* and *Histophilus somni*
- Viral agents including BRSV (bovine respiratory syncytial virus), BRCV (bovine respiratory coronavirus), IBR (infectious bovine rhinotracheitis) and BVDV (bovine viral diarrhea virus)

“Vaccination can be effective in reducing the risk of summer pneumonia when caused by agents for which a vaccine is available,” Stokka says. “However, vaccination in young calves does not equate with a 100% response rate. Nor does

it reduce the stress associated with weather; dry, dusty conditions; sorting and mixing. In addition, while some pathogens may have commercially available vaccines, information to evaluate effectiveness is limited.”

Researchers Tackle Three Deadly Livestock Diseases

by Jennifer Shike, Bovine Vet

The Pirbright Institute is embarking on two new projects (ASFVint and NEOVACC) tackling three deadly livestock viruses: porcine reproductive and respiratory syndrome virus (PRRSV), African swine fever virus (ASFV) in pigs, and bovine respiratory syncytial virus (BRSV) in cattle.

“Control measures against ASFV are limited by our relatively poor understanding of how ASFV manipulates the host immune response,” said Pirbright researcher and project co-leader Chris Netherton in a release. “The ASFVint project will help fill this gap by bringing together expertise from a range of disciplines brought by partners drawn from across Europe. Together we hope to build a road map that helps uncover novel ways to combat this fascinating but dangerous virus.”

ASFVint will focus on identifying the roles of around half of the 150 to 170 genes contained in the ASFV genome. This deadly pig disease was estimated to have caused China \$141 billion in direct economic losses in 2019.

Little is known about how ASFV genes contribute to infection and disease in pigs partially because of the size of its genome, which is around five times the size of the virus that is responsible for COVID-19.

“There are currently no vaccines or treatments available for ASF, so understanding which ASFV genes are important for replication and immune system interaction will help scientists to develop these vital disease control tools,” Pirbright Institute said in a release.

Netherton and six partners will receive \$1.68 million to investigate 80 ASFV genes and decipher what they each do during infection, the release said. They will also investigate if there are specific genes that are important for replication or that the virus uses to avoid the pig immune response. Researchers said this could provide new pathways for antivirals to target or additional genes that could be used in vaccine development.

The other project, NEOVACC, is coordinated by Pirbright professor Simon Graham and aims to develop vaccine strategies to improve protection of newborn animals against BRSV and PRRSV, the release said. BRSV causes major cattle respiratory disease outbreaks globally and PRRSV is considered one of the most economically important diseases affecting the global pig industry.

NEOVACC will receive \$2.5 million to test vaccine strategies designed to enhance immune responses against these diseases in newborn animals.

“When animals are born, they are shielded from disease by antibodies that their mothers have passed on to them via their milk. However, these antibodies prevent vaccines from working effectively, meaning that when the mother’s antibodies fade from the newborn’s system, the newborns are vulnerable to infection,” Pirbright Institute said in a release.

Researchers will work together to improve protection by specifically targeting the vaccines to newborn immune systems, enhancing vaccine delivery and engineering drugs that boost newborn responses to vaccines.

The projects are funded through the International Coordination of Research on Infectious Animal Diseases (ICRAD) Transnational Collaborative Research Project. ■

ASA DNA Welcomes New Team Members

ASA's DNA department is excited to welcome two new members to our team: Mikela Lorash and Madison Marks. Recently, Lauren Skoglund was accepted to veterinary school at South Dakota State University and left her position with the DNA department. ASA is excited to see her pursue her education and wishes her the very best. In addition to newcomers Lorash and Marks, members will continue to work with Molly Diefenbach, Rachel Pavsek, and Lilly Platts in DNA.



Mikela Lorash

Mikela Lorash originally hails from the small town of Fishtail, Montana. She was introduced to agriculture at a young age through rodeo, 4-H, and being raised on a private historical guest ranch that her parents managed. While involved in 4-H, Mikela showed hogs and horses. Mikela has previously worked at an equine production ranch where she ensured the well being of 25 horses on a daily basis. She also completed her internship with an equine surgeon in Bozeman. When she isn't at work, Lorash can be found barrel racing, beading, and enjoying the beautiful Gallatin Valley with friends.

Madison Marks is originally from the small town of St. Regis, Montana. Madi grew up participating in 4-H and FFA where she developed a passion for agriculture, specifically with livestock, by raising safe, high-quality local beef for the community through her four grand champion market steers. She had the opportunity to attend Montana State University (MSU) where she majored in animal science with a focus in livestock management. While attending MSU, Madi also competed in short sprints on the track and field team, was able to work for the Montana Agriculture Experiment Station farms, and was a student leader for her college-age ministry group. Madi has recently graduated from MSU and is now enjoying working in the DNA department for ASA and spending her free time with her hus-



Madison Marks

band in the beautiful Bozeman area, doing outdoor activities like hiking, paddleboarding, trail running, horseback riding, camping, and hunting.

In memoriam . . .

■ **Pastor David Ross**, 39, passed away May 16 at the Indiana University Health Center in Indianapolis. A native of Midland, Michigan, Ross married Makayla Schlenker in 2015, and became the father of three daughters: Neva, Selah, and Eden. After a career serving as a pastor and instructor, he had recently accepted a position as dean of academic affairs for Artios Christian College. Ross was the son-in-law of Terry and Cathy Schlenker, long-time Simmental breeders and the owner-operators of Wilkinson Farms of Montpelier, North Dakota. ■



Pastor David Ross

INTERNATIONAL

Register

EU, US Post-Brexit Ag Quotas Agreement

The European Union (EU) and the US concluded negotiations to adjust the EU's World Trade Organization (WTO) agricultural quotas following the UK's withdrawal from the EU, the European Commission.

The agreement covers dozens of quotas and billions of euros of trade, including for beef, poultry, rice, dairy products, fruits and vegetables, and wine. It follows two years of negotiations in the WTO framework to divide the EU quotas, with part of the volume remaining with the EU 27, and part going to the UK, based on recent trade flows.

The EU is conducting similar tariff rate quotas apportionment negotiations with 21 other partners and has concluded negotiations with Argentina, Australia, Norway, Pakistan, Thailand, Indonesia, and others. Once the commission has adopted the EU-US agreement, it will be sent to the European Council and European Parliament for ratification.

Demand for New Zealand Grass-Fed

New Zealand has seen strong demand for its grass-fed beef in the US market, with export volume up 15% in 2020 over the previous year, according to an industry group that represents that country's cattle and sheep farmers. The US market led grass-fed beef export growth, *Beef + Lamb New Zealand* said in a press release. Volume shipped to Japan, Canada, Korea and Indonesia also increased, while exports of grass-fed beef to China dropped. On a value-basis, grass-fed beef exported to the US was up by 34% during the period.

New Zealand's overall red meat exports to all countries reached a record \$9.2 billion last year, the trade group said. Consumer awareness of and preference for grass-fed beef and lamb from New Zealand is growing. Other factors driving sales growth include the surge in at-home meal consumption during the COVID-19 pandemic, an increased focus on healthy eating, and expanded distribution and availability of the country's grass-fed beef and lamb at retail and online. The country's largest red meat producer and exporter, Silver Fern Farms, launched a direct-to-consumer e-commerce site in November, 2020 in order to offer its grass-fed products to customers in the US. ■

Springer Simmentals' "Sale of Value Based Genetics"

February 6, 2021 • Decorah, IA

No.	Category	Average
66	Bulls	\$5,990
23	Bred Heifers	\$3,912
6	Open Heifers	\$3,333
95	Registered Lots	\$5,319

Auctioneer: Phil Schooley, IA
Representing ASA: Bert Moore

High-Selling Lots:

\$39,000 – Bull, "SAS Big Casino H214," s. by Drake Poker Face 2X, sold to Steve and Jessica Campbell, MN; and Robert and Andrew Stevens, MN.

\$11,000 – Bull, "SAS Infra-Red H804," s. by WS All Aboard B80, sold to Steve and Jessica Campbell, MN.

\$9,250 – Bull, "SAS Antidote H502," s. by SAS Antidote F046, sold to Bill Jennings, IA.

\$9,000 – Bull, "SAS Kiss Them All," s. by Drake Poker Face 2X, sold to Gary Jenkins, GA.

\$6,000 – Cow, "SAS PassionG648," s. by DS Numbers 530E, sold to Ryan Zitelman, IA.

\$6,000 – Cow, "SAS Starbright G003," s. by WS All Aboard B80, sold to Jay Stowater, IA.

\$6,000 – Open Heifer, "SAS Starlight H599," s. by TJ Main Event 503B, sold to Chis Kemper, WI.

Comments: Also selling were full sib embryos to SAS Copperhead at \$1,000 each to Robert and Andrew Stevens, MN. Commercial Bred Cows averaged \$2,050.

Brink Genetics Annual Fleckvieh Bull and Female Sale

March 4, 2021 • Elkader, IA

No.	Category	Average
44	Yearling Full Fleckvieh Bulls	\$5,875
6	Bred Full Fleckvieh Females	\$3,666
12	Open Full Fleckvieh Heifers	\$3,291
62	Total Lots	\$5,161

Representing ASA: Bert Moore

High-Selling Lots:

\$13,500 – Bull, "BRINK H057," s. by Brink Bootstraps A317, sold to Jeff Knox, Australia.

\$10,250 – Bull, "BRINK H017," s. by Brink Flex C516, sold to Lapryor Farms, Ottawa, IL.

\$8,500 – Bull, "BRINK POL H015," s. by Brink Pol Canvas F837, sold to Dan Docktor, Colfax, ND.

\$8,000 – Bull, "BRINK H110," s. by Brink Flex C516, sold to Chad Ledbetter, Okmulgee, OK.

\$4,250 – Open Heifer, "BRINK H035," s. by Brink Flex C516, sold to Chad Ledbetter, Okmulgee, OK.

\$4,000 – Open Heifer, "BRINK H058," s. by Brink Flex C516, sold to John Evans, Lebanon, CT.

\$4,000 – Bred Female, "BRINK E777," s. by Brink B412, sold to Ben Estes, Vinson, OK.

\$4,000 – Bred Female, "BRINK 725," s. by Brink B460, sold to Ben Estes, Vinson, OK.

Volume Buyers: Martin Fornego, Danbury, WI; Assman Land and Cattle Co., Mission, SD; and Chad Ledbetter, Okmulgee, OK.

Comments: Cattle were pre-priced and then auctioned off by phone. Cattle sold to 13 states and Australia.



Jerry Brink discusses the bulls and their Full Fleckvieh program.

Kentucky Beef Expo Simmental Sale

March 6, 2021 • Louisville, KY

No.	Category	Average
46	Total Lots	\$2,714

Auctioneer: Bruce Miller, TX

Sale Manager: DP Sales Management, KY

Sale Staff: Tommy Carper, Jacob Schwab and Gene Steiner

High-Selling Lots:

\$6,400 – Open Female, "Welsh's Destiny 299G," s. by WLTR Nashville 22A ET, cons. by Welsh Simmentals, sold to Ernie Ambler, VA.

\$5,000 – Open Female, "Welsh's Samantha 306H," s. by Welshs Dew It Right 067T, cons. by Welsh Simmentals, sold to Pleasant Hill Farms, KY.

\$4,600 – Bred Female, "HLC Florida Grace E G98," s. by TJSC Hammer Time 35D, bred to Bush Unbelievable, cons. by Michael Hardy, sold to Michael Wicker, IN.

\$4,600 – Open Female, "Welsh's Smokin Hot 307H," s. by SSC Shell Shocked 44B, cons. by Welsh Simmentals, sold to Triple C Farm, TN.

\$4,200 – Open Female, "DJM Mavis Flame H024," s. by W/C Bullseye 3046A, cons. by Marshall Hillside Farms, sold to Werning Cattle Company, SD.

\$4,000 – Bred Female, "SBC Enchanting 726G," s. by Mr. CCF 20-20, bred to Ruby SWC Battle Cry, cons. by Stephens Beef Cattle, sold to Paul Gripshover, KY.

\$4,000 – Open Female, "ECCO/BRAM Cinderella H15," s. by Rocking P Blaze of Glory, cons. by Edwards Cattle Co./Bramlet Simmentals, sold to Bowman Cattle, KY.

\$3,800 – Open Female, "STCC/DPF Up the Proof 9037," s. by W/C Bullet Proof 11B, cons. by Trennepohl Farms, sold to Josh Martin, KY.

Eastern Spring Simmental Classic

March 16 • Columbus, OH

No.	Category	Average
78	Total Lots	\$3,209

Auctioneer: Ron Kreis, OH

Sale Manager: DP Sales Management, KY

Sale Staff: Ryan LePage, Darby Walton and Chris Smith

High-Selling Lots:

- \$12,000** – Cow/Calf Pair, “CN So Sweet 80 100G,” s. by GOET 180, Heifer Calf s. by HILB Oracle, cons. by Xtreme Show Cattle and Norman Show Cattle, sold to Kevin Ogilbee, OH.
- \$7,000** – Open Female, “Pearl 3H,” s. by W/C Relentless 32C, cons. by Liggett Cattle Company, sold to Emma Grimwood, OH.
- \$5,700** – Open Female, “Hall MC Burnice G902,” s. by W/C Loaded Up 1119Y, cons. by Hall Simmentals, sold to High Ridge Farms, NC.
- \$5,000** – Cow/Calf Pair, “Heil Ms. Bailey 40D,” s. by LLSF Pays To Believe ZU194, Heifer Calf s. by DMCC/Wood Fully Loaded, cons. by Heil Farms, sold to Barbara Smith, IN.
- \$5,000** – Bull, “LEBC Thunder 12H,” s. by W/C Bankroll 811D, cons. by L.E.B. Cattle, sold to William Sidey, OH.
- \$5,000** – Bull, “LEBC Kobe 24H,” s. by W/C Bankroll 811D, cons. by L.E.B. Cattle, sold to PSP Farm, WV.
- \$5,000** – Bull, “LEBC Bankroll 11H,” s. by W/C Bankroll 811D, cons. by L.E.B. Cattle, sold to Wayne Henderson, OH.
- \$5,000** – Open Female, “Pearly 2H,” s. by W/C Relentless 32C, cons. by Liggett Cattle Company, sold to Bonny Evans, FL.
- \$5,000** – Bred Female, “FSCI Ms Vision G249,” s. by DSFF Vision G249, bred to W/C Fort Knox 609F, cons. by Ferguson Show Cattle, sold to Sheryl Boring, OH.

Red Hill Farms’ “More Than A Bull XVI” Sale

March 20, 2021 • Lafayette TN

No.	Category	Average
9	SimAngus™ 18 month-old Bulls	\$4,174
14	SimAngus Yearling Bulls	\$5,857
23	SimAngus Bulls	\$5,198

Auctioneer: Bart Jones, TN

Marketing Representatives: Davis Holder, Johnny Rogers, Ronnie Holman and Ben Spitzer.

Representing ASA: Chris Davis

High-Selling Lots:

- \$21,500** – Red, PB, “Redhill 407C 21E 139H,” s. by CDI Secret Agent 407C, sold to Leachman Cattle, CO; and Mike Tulloch, Canada.
- \$10,000** – Black, SimAngus, “Redhill Accelerate 12B 23H,” s. by LCOC Accelerate X166D, sold to T-Heart Ranch, CO.
- \$7,500** – Black, SimAngus, “Redhill Accelerate 15E 19H,” s. by LCOC Accelerate X166D, sold to Wayne McQuilkin, IA.
- \$6,000** – Red, 3/4 SM, “Redhill 407C 34Z 118H,” s. by CDI Secret Agent, sold to Jason Tower, Purdue University/SIPAC, IN.

Comments: Also selling were four Black Red Carrier Angus Bulls at an average of \$3,125; 22 Red Angus 18-month-old Bulls at an average of \$4,693; 12 Red Angus Yearling Bulls at an average of \$6,083; and two Charolais and Char X Bulls at an average of \$4,125.



Inside the sale facility.



Looking over the offering.

Midland Bull Test Sale

April 1, 2021 • Columbus, MT

Representing ASA: John Paterson

High-Selling SM Bulls:

- \$5,500** – “Mallett Expedient,” s. by TNT Expedient E338, cons. by Mallett Simmentals, sold to Craig Vejraska, Omak, WA.
- \$4,500** – “Mallett G989,” s. by TNT Expedient E338, cons. by Mallett Simmentals, sold to Ron Olson, Reed Point.
- \$4,000** – “Mallet G30,” s. by SDS In Force 112Y, cons. by Mallett Simmentals, sold to Gene Haaland, Broadview.
- \$4,000** – “Mallet H11,” s. by TNT No Doubt C295, cons. by Mallett Simmentals, sold to Kevin Thompson, Almont, ND.



Looking over the offering.



Inside the sale facility.

4th Annual Passion for Perfection Sale

April 10, 2021 • Clara City, MN

No.	Category	Average
5	SM and SimInfluenced Breeding Aged Bulls	\$5,220
1	SM Stud Bull	29,000
46.5	SM and SimInfluenced Cow/Calf Pairs	11,326
7	SM and SimInfluenced Fall Open Heifers	6,200
59.5	Live Lots	\$10,506
9	Embryo Lots	\$2,684

Auctioneer: Jered Shipman, TX

Sale Manager: Eberspacher Enterprises (EE) Inc., MN

Marketing Representatives: Val Eberspacher (EE); Kelly Schmidt, MN; Mitchell Armitage, OK; Austin Brandt, IA; Jeremie Ruble, IA; and Amanda Hilbrands, LiveAuctions.TV, MN.

Representing ASA: Russ Danielson

(Continued on page 56)

(Continued from page 55)

High-Selling Lots:

- \$32,000** – Cow/Calf Pair, “HILB/SHER Liberty Bell G370,” s. by W/C Executive Order 8543B, Heifer Calf s. by HILB Oracle C033R, sold to Boss Lake Genetics, AB.
- \$30,000** – 1/2 interest in Cow/Calf Pair, “HILB Déjà vu G106W,” s. by HILB/SHER Data Breach, Heifer Calf s. by Mr. SR 71 Right Now E1538, sold to Foster Brothers Farms, Lockney, TX.
- \$29,000** – Bull, “HILB/SHER Data Breach 012E,” s. by HILB Oracle C033R, sold to Legacy Livestock, Rigby, ID.
- \$29,000** – Cow/Calf Pair, “HILB Miss Moana F13B G13B,” s. by PVF Blacklist 7077, Heifer Calf s. by HILB Oracle C033R, sold to Megan Brown, Roanoke, AL.
- \$21,500** – 1/2 interest in Cow/Calf Pair, “HILB Lace N Lillies F2S,” s. by W/C Executive Order 8543B, sold to Grace Shlueter, Sauk Rapids.
- \$20,500** – Cow/Calf Pair, “HILB/Jass Mystique Love G710B,” s. by OBCC CMFM Deplorabull D148, Heifer Calf s. by HILB Oracle C033R, sold to Moody Farms, Maxwell, IA.
- \$20,000** – 1/2 interest in Cow/Calf Pair, “HILB/SHER G749E ‘Bliss’,” s. by W/C Executive Order 8543B, Bull Calf s. by KBHR Sniper E036, sold to Shoal Creek Land and Cattle, Excelsior Springs, MO.
- \$20,000** – Cow/Calf Pair, “HILB/SHER Queen of Diamonds G543,” s. by HILB/SHER Data Breach, Heifer Calf s. by W/C Executive Order 8543B, sold to Rincker Brothers, Strasburg, IL.

Comments: Save the date for our Annual Jewels of the Northland Sale, December 4, 2021.



Host Mark Hilbrands welcomes the crowd.



Nick and Karen Impagliazzo, White Wing Simmental, traveled from AR.



Luke and Brent Katz made the trip from NE, to celebrate Luke's birthday!



Darren Johnson, Elm Mound Simmentals, added HILB genetics to his program.

The Spring Turnout Sale

April 10, 2021 • Worthing, SD

No.	Category	Average
97	Total Lots	\$3,312

Auctioneer: Tracy Harl, NE
Sale Manager: DP Sales Management, KY
Sale Staff: Randy Rasby and Cliff Beutler

High-Selling Lots:

- \$8,250** – Pregnancy out of, “HPF Right To Love Z338,” s. by W/C Relentless, cons. by Hilltop Simmentals, sold to Clear Water Simmentals, IN.
- \$8,250** – Bull, “WS Lock Down G102,” s. by W/C Lock Down 206Z, cons. by Hilltop Simmentals, sold to John Hansen, SD.

- \$6,750** – Open Female, “HLTS Red Jewel G219,” s. by CDI Prime Example 310D, cons. by Hilltop Simmentals, sold to Kevin Van Beek, SD.
- \$6,500** – Bull, “RSSF Mr. Emergent G905,” s. by WRS Emergent, cons. by Riverside Simmentals Farm, sold to Kurt Hamburger, OK.
- \$6,200** – Cow/Calf Pair, “ES E58,” s. by TKCC Carver 65C, Bull Calf s. by CDI Mainline, cons. by Hilltop Simmentals and HTP Simmentals, sold to P/T Livestock, WY.
- \$6,000** – Bull, “HLTS Mr. Main Event G936,” s. by TJ Main Event, cons. by Hilltop Simmentals, sold to Alex Merrick, IA.
- \$5,750** – Bred Female, “HLTS Delilah E175,” s. by WS Revival, bred to CDI Mainline, cons. by Hilltop Simmentals, sold to P/T Livestock, WY.
- \$5,500** – Cow/Calf Pair, “HLTS Jewel G217,” s. by Harvie Red Summit 54B, Bull Calf s. by W/C Lockdown, cons. by Hilltop Simmentals, sold to Matt Beech, MO.

Trennepohl Farms' Back to the Farm Bull Sale

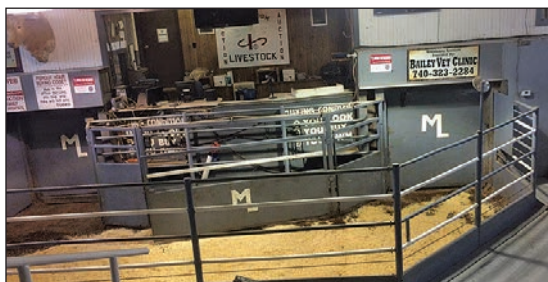
April 16, 2021 • Zanesville, OH

No.	Category	Average
44	Bulls	\$3,811

Auctioneer: Ron Kreis, OH
Sale Manager: PrimeTIME AgriMarketing Network, Inc., OH
Representing ASA: Brian DeFreese

High-Selling Lots:

- \$8,000** – s. by W/C Husker, sold to Sky Mile Farms, PA.
 - \$7,500** – s. by GEF County O, sold to Parks Cattle, OH.
 - \$5,000** – s. by STCC Pay Up, sold to Gottschalk, Farms, IN.
- Volume Buyer:** Stash Farms, PA.



The auction block.



Sale crowd.



Inside the sale facility.

Heartland Simmental and Angus "Performance with Class" Sale

April 24, 2021 • Waverly, IA

No.	Category	Average
62.5	SM and SimInfluenced Bulls	\$4,270
36	SM and SimInfluenced Cow/Calf Pairs	3,125
98.5	SM and SimInfluenced Lots	\$3,850
9	Commercial Bred Females	\$1,650

Auctioneer: Phil Schooley, IA

Sale Manager: Eberspacher Enterprises (EE) Inc., MN

Marketing Representatives: Val Eberspacher (EE); Mike Sorenson, Livestock Plus, IA; Jared Ruter, IL; Joel Edge, IA; Marshall Ruble, IA; and Mariah Miller, LiveAuctions.TV, IA.

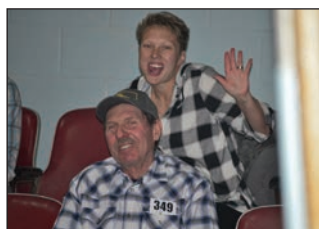
Representing ASA: Dr. Bert Moore

High-Selling Lots:

- \$15,000** – 1/2 interest in Bull, "HL Judge H121," s. by SFG The Judge D633, sold to Echard Farms, Farmersburg.
- \$7,000** – Bull, "Kappes Big Ticket C521," s. by Remington Lock N Load 54U, sold to A-Z Livestock, Hawkeye.
- \$7,000** – Bull, "HL Uptown Funk H87," s. by HL Uptown Funk 99B, sold to Susan Lewison, Adams, MN.
- \$6,250** – Bull, "HL/WMCC Revolution G907," s. by Ford's-WMCC Revolution 60E, sold to Roger and Jimmy Hammel, Dorchester.
- \$6,250** – Bull, "HL Lawmaker H71," s. by KWA Law Maker 59C, sold to Bata Brothers Simmental, Adams, ND.
- \$6,000** – Bull, "HL Smooth Criminal H90," s. by SK Smooth Criminal E174, sold to Johnson Family Farms, Maquoketa.
- \$5,750** – Bull, "HL Big Ticket G912," s. by Kappes Big Ticket C521, sold to Mark and Carma Devries, Sheffield.
- \$5,600** – Bull, "HL Fast Money G906," s. by Hook's Fast Money 67C, sold to Mark and Carma Devries, Sheffield.



Tom Lynch, founder of Heartland Simmentals visits prior to the sale with ring men, Mike Sorensen, Jared Ruter and Joel Edge.



Long-time customer, Steve Jensen and daughter enjoyed the hospitality.



Kirk Lynch makes some opening comments to his customers.



Mel and Vicky Peck made the trip from SD.

Stars and Stripes Sale

May 1, 2021 • Hummelstown, PA

No.	Category	Average
60	Total Lots	\$3,031

Auctioneer: Tommy Carper, OH

Sale Manager: DP Sales Management LLC, KY

Sale Staff: Jacob Schwab and Charlie Strickler

High-Selling Lots:

- \$8,000** – Cow/Calf Pair, "ERV Cinnamon Rock," s. by CDI Rimrock, Heifer Calf s. by GEFF County O, cons. by ERV Cattle, sold to Fenton Farms Simmentals and Bill Sloup.
- \$6,700** – Cow/Calf Pair, "PVSM Color Play," s. by HPF Tradecraft D010," Heifer Calf s. by CLRS Dividend, cons. by Powell Valley Simmentals, sold to Wade Humphries, IA.
- \$5,800** – Pregnancy out of, "Lazy H Shez Top Cool," s. by Remington Secret Weapon, cons. by Stewart's Simmental Cattle, sold to Chris Beachy, MD.
- \$5,750** – Open Female, "ERV Steelin` The Show," s. by HTP/SVF Duracell, cons. by ERV Cattle, sold to Nicole Ullom, PA.
- \$5,600** – Cow/Calf Pair, "ERV Lexi," s. by Cherokee Rooster, Heifer Calf s. by W/C Relentless, cons. by ERV Cattle, sold to Aaron McKinney, PA.
- \$5,500** – Pregnancy out of, "HFSC Foxy Lady HF6," s. by THSF Lover Boy, cons. by Hillcrest Farm, sold to Nick Sloup, NE.
- \$5,400** – Bred Female, "HPF Sazerac 417E," s. by TKCC Classified, bred to GEFF County O, cons. by OEF Simmental, sold to Brian Cody, WV.
- \$5,000** – Cow/Calf Pair, "CLO Shasta's Finale 29F1," s. by MVS Maximus, Heifer Calf s. by THSF Lover Boy, cons. by CLO Simmentals, sold to Penley Farms, VA. ■

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Call 406-587-4531

Simmental/ Simbrah Superbowl XXIX

Date: April 9, 2021
Location: San Antonio, TX
Judges: Tom Farrer, IN
 (Showmanship, PB SM, Percentage SM and Percentage Simbrah); Taylor Graham (Showmanship, PB Simbrah)

Simbrah Females Purebred

Early Junior Calf Champion
 S. by Smith Made Solid, exh. by Hallie Hackett, sponsored by Smith Genetics and McCrary Farms, Giddings.

Reserve Early Junior Calf Champion
 S. by HMO PRR Waylon Z4, exh. by Leroy Stavinoha, sponsored by Peach Creek Ranch, Granger.

Late Junior Calf Champion
 S. by TK/FCC Hard Body, exh. by Kensley Wolf, sponsored by 4B Simbrah Cattle, Lake Charles, LA.

Reserve Late Junior Calf Champion
 S. by Smith RFI Black Sails, exh. by Lorelai Hill, sponsored by Brolaco Cattle Company, Edinburg.



Reserve Grand Champion and Intermediate Champion
 S. by Hagans Dinero, exh. by Avery Rendon, sponsored by Hagan Cattle Company, Yoakum.

Reserve Intermediate Champion
 S. by LMC BBS Manziel 5B/2, exh. by Kaydence Orth, sponsored by Boening Bros. Inc., Floresville.

Early Junior Champion
 S. by Smith Practical 42D, exh. by Paisley Lightfoot, sponsored by Smith Genetics, Giddings.

Reserve Early Junior Champion
 S. by TSC Jack, exh. by Jerrell Williams, sponsored by Webb Fields, Bryan.

Late Junior Champion
 S. by Smith Just Because, exh. by Justin Majewski, sponsored by Smith Genetics, Giddings.

Reserve Late Junior Champion
 S. by Smith Just Because, exh. by Mary Sanders, sponsored by Smith Genetics, Giddings.



Grand Champion and Senior Champion
 S. by Smith Have No Fear, exh. by Kayla Sansom, sponsored by Smith Genetics, Giddings.

Reserve Senior Champion
 S. by Smith RFI Born To Dare, exh. by Ryleigh Whitaker, sponsored by Smith Genetics/Reavis Farms, Giddings.

Percentage Simbrah Females



Grand Champion Female
 S. by Jass On The Mark 69D, exh. by Kinleigh Compton, sponsored by Peach Creek Ranch, Granger.



Reserve Grand Champion
 S. LMCC BB 5C/157, exh. by Jaime Salinas, sponsored by Triple C Cattle, Andice.

Purebred Simmental Females



Grand Champion
 S. OBCC CMFM Deplorabull, exh. by Cash Dale, sponsored by GB Cattle,



Reserve Grand Champion
 S. by W/C Fully Loaded, exh. by Lane Alexander, sponsored by Southern Jewel Cattle Company, Victoria.

Percentage Simmental Females



Grand Champion
 S. by W/C Bankroll 811D, exh. by Bailee Krotzer, sponsored by Southern Jewel Cattle Co., Victoria.



Reserve Grand Champion
 S. by KCC1 Exclusive 116E, exh. by MacKenzie DeBerry, sponsored by DeBerry Land and Cattle, Olton.

Showmanship

8-9-Year-Old Division

Colt Richter (1st place)
 Ryder Baring (2nd place)

10-Year-Old Division

Bailee Wilson (1st place)
 Zachary Ellis (2nd place)

11-Year-Old Division

MacKenzie DeBerry (1st place)
 Kinleigh Guidry (2nd place)

12-Year-Old Division

Rylie Smith (1st place)
 Rory Die (2nd place)

13-Year-Old Division

Avery McInvale (1st place)
 Jennifer Mask (2nd place)

14-Year-Old Division

Harper Mau (1st place)
 Dakota Norman (2nd place)

15-Year-Old Division

Jakob Sansom (1st place)
 Ryleigh Whitaker (2nd place)

16-Year-Old Division

Hallie Hackett (1st place)
 Abegayle Drabek (2nd place)

17-Year-Old Division

Bailee Krotzer (1st place)
 Jaime Salinas (2nd place)

18-Year-Old Division

Avery Oliver (1st place)
 Trever Jenkins (2nd place)

Grand Champion Showmanship

Avery McInvale

Reserve Grand Champion Showmanship

Avery Oliver



The top two winners of the 10 showmanship divisions included (front row left to right): Colt Richter, Ryder Baring, Bailee Wilson, Zachary Ellis, MacKenzie DeBerry, Kinleigh Guidry, Rylie Smith, Rory Die, Avery McNivale and Jennifer Mask. Second row left to right include: Harper Mau, Dakota Norman, Jakob Sansom, Ryleigh Whitaker, Hallie Hackett, Abegayle Drabek, Bailee Krotzer, Jamie Salinas, Avery Oliver and Trever Jenkins. Back Row left to right Tom Farrer and Taylor Graham, judged, Tim Smith and Carlitos Guerra.



At the conclusion of the Simbrah-Simmental Superbowl, 40 \$250 scholarships were awarded to exhibitors through a random drawing.

Sponsors of the 2021 event, each of whom provided \$1,000 were: LPJ Ranch, Bar P Bar Cattle Co., Smith Genetics, Southern Jewel Cattle Co., JV Cattle Co., Peach Creek Ranch Cattle, Blount Farms, L3 Lewis Family Farm, Double M Cattle, Baring Cattle Co., La Hacienda Hinojosa, Kearns Cattle Co., Pembroke Cattle Co., Circle M Farms, 7N Ranch, Reavis Farms, DeBerry Land & Cattle, Red River Farms, HDZ Cattle Co., Foster Brothers Farms, MM Ranch, Higher Up Cattle, A.R.C. Cattle Co., RGV Cattle Co., Freasier Ranch, Diamond J Simmentals, GB Cattle, Double T Farms, Triple C Cattle, Pool Farms, 6G Ranch, Boening Bros Simbrah, Johnson Cattle Co., Seale Show Cattle, 4B Simbrah Cattle, Resolution Group, Brolaco Cattle Co., La Muñeca Cattle Co., Elmore Cattle Services, McCrary Farms, Temperance Livestock, Hagan Cattle Co., and Webb Fields.

The Simbrah-Simmental Superbowl is a volunteer run organization, coordinated by founders, Tim Smith and Carlos Guerra. It annually awards over \$40,000 and is made possible by breeders who sponsor the event at \$1,000 each. This allows heifers from their programs that are purchased by junior exhibitors to be eligible for the competition.

Note: The grand champion in the Purebred Simbrah and Simmental Shows were each awarded \$1,500 and the reserve champions \$1,000. The grand champion in the Percentage Simbrah and Simmental Shows were each awarded \$500 and the reserve champions \$250. Division champions also received checks and trophy belt buckles were also awarded to each class winner as well as monetary awards deep in each class. The event awarded \$50,000 and in the 29 years the show has awarded the youth in SimGenetics more than \$1M.

For more information on the event click on www.simmental-simbrahsuperbowl.com. Also sponsorships for the 2021 event are now being accepted and posted to the website. Contact Tim Smith, 512-587-7896 or Carlos Guerra 956-383-7566 for details.

Southern Showcase hosted by the Texas Simmental/Simbrah Association

Date: April 10-11, 2021
Location: Brenham
Judges: Matt Karisch, Starkville, MS (Open Show); Brandi Karisch, Starkville, MS (Junior Show)

Junior Show Purebred Simmental Females

Junior Calf Champion
 "Harmony H001,"
 exh. by Teagan Goble, Rosharon.

Reserve Junior Calf Champion
 "MTG Miss Lady T,"
 exh. by Taylor Groce, Snook.

Reserve Grand Champion and Senior Calf Champion
 "SJCC/DTF Daddy's Hope H101,"
 exh. by Lane Alexander, Hempstead.

Reserve Senior Calf Champion
 "JBC Lorie Darlin 01H," exh. by Kinleigh Jo Guidry, Brenham.

Junior Yearling Champion
 "JSSC Haley 970G," exh. by Tucker Gamble, Joaquin.

Reserve Junior Yearling Champion
 "RXCC Stormi 918G,"
 exh. by Nylene Leal, Rio Grande.

Summer Yearling Champion
 "PSCS Alley's Lady 804G ET,"
 exh. by Cash Dale, Point.

Grand Champion and Senior Yearling Champion
 "MLCC/WLE Queen G13,"
 exh. by Cash Dale, Point.

Reserve Senior Yearling Champion
 "SJCC Gretchen G026,"
 exh. by Tyler Hammond, Manvel.

Grand Champion Cow/Calf Pair
 "FBFS Francesca 305F,"
 exh. by Kaylee McNivale, Lockney.

Reserve Grand Champion Cow/Calf Pair
 "LSSC Miss Barcardi 315F,"
 exh. by Jordan VanDevender, Buna.

(Continued on page 60)

(Continued from page 59)

Percentage Simmental Females

Junior Calf Champion

"Brownlee Miss Broken Regard,"
exh. by Kari Bayer, Gainsville.

Reserve Junior Calf Champion

"Step Up BC Bankroll,"
exh. by Addison Syphrett, Buffalo.

Senior Calf Champion

"SJCC Hot Topic H023," exh. by
Bailee Krotzer, Burkburnett.

Reserve Senior Calf Champion

"RRF Miss Red River 213H,"
exh. by Morgan Jackson, Kaufman.

Grand Champion and Junior Yearling Champion

"FBFS Gigi Goode 124G,"
exh. by Avery McInvale, Lockney.

Reserve Junior Yearling Champion

"S Tradition,"
exh. by Payton Harris, Marietta.

Summer Yearling Champion

"SJCC Glamour G037,"
exh. by Rylie Smith, Angleton.

Reserve Grand Champion and Senior Yearling Champion

"RRF Rita 215G,"
exh. by Morgan Jackson, Kaufman.

Reserve Senior Yearling Champion

"Miss Tables Turned," exh. by
Taylor McCurdy, Waller.

Simbrah Females

Junior Calf Champion

"Miss Cricket,"
exh. by Mike Petrus, Skidmore.

Reserve Junior Calf Champion

"Smith McCrary Roxie 52H,"
exh. by Hallie Hackett, Texarkana.

Reserve Grand Champion and Senior Calf Champion

"RMC Ms. Destiny 266H,"
exh. by Jennifer Mask, Franklin.

Reserve Senior Calf Champion

"BLCO Doja Sails,"
exh. by Lorelai Hill, Edinburg.

Grand Champion and Junior Yearling Champion

"Hagan Kiss Money 7G,"
exh. by Avery Rendon, Lorena.

Reserve Junior Yearling Champion

"F/War Dark Sister,"
exh. by Cassidy Fuchs, Burton.

Senior Yearling Champion

"3CC CTCF Steel Beauty,"
exh. by Cassidy Fuchs, Burton.

Reserve Yearling Champion

"BPB Nicki 008G," exh. by
Abegayle Drabek, La Grange.

Grand Champion Cow/Calf Pair

"SC30 LaReina,"
exh. by Riley Bautsch, Devers.

Reserve Grand Champion Cow/Calf Pair

"Smith RFI Sweetheart 950F,"
exh. by Ryleigh Whitaker, Ranger.

Percentage Simbrah Females

Reserve Grand Champion and Junior Calf Champion

"Walters Heart Throb 8H,"
exh. by Jennifer Mask, Franklin.

Grand Champion Cow/Calf Pair

"BCC Delightful Lady," exh. by
Ryder Baring, Elmendorf.

Open Show Purebred Simmental Bulls

Junior Calf Champion

"JDE Johnny Came Lucky 014J,"
exh. by Dillon Earles, Clyde.

Reserve Grand Champion and Senior Calf Champion

"DTF Daddy Profit 103H,"
exh. by Morgan Jackson, Kaufman.

Reserve Senior Calf Champion

"Powell's Switch Blade,"
exh. by Robby Powell, Anna.

Grand Champion and Senior Yearling Champion

"GSC Savage 9G,"
exh. by XTB Cattle, Canton.

Reserve Senior Yearling Champion

"SJCC Guns N Roses G027,"
exh. by Casey Buzzard, Victoria.

Percentage Simmental Bulls

Grand Champion and Junior Yearling Champion

"OBCC Designated Survivor 648G,"
exh. by XTB Cattle, Canton.

Simbrah Bulls

Reserve Grand Champion and Junior Calf Champion

"BPB MD2020,"
exh. by Bar P Bar Cattle
Company, Weimar.

Reserve Junior Calf Champion

"Golden Flashback,"
exh. by Jason Mullins, Golden.

Senior Calf Champion

"RXCC Winston," exh. by
Rafael Carrera, Rio Grande.

Reserve Senior Calf Champion

"Golden Thunder,"
exh. by Jason Mullins, Golden.

Junior Yearling Champion

"JLCS Mr 8 Ball G301," exh. by
Lanna Hensgens, Rayne, LA.

Senior Yearling Champion

"Smith Fear Not 33G,"
exh. by Luke Mhire, Welsh, LA.

Grand Champion and Senior Champion

"BCC Hollywood," exh. by
Roy Baring Jr., Elmendorf.

Percentage Simbrah Bulls

Grand Champion and Junior Calf Champion

"3JP Super TEX,"
exh. by Pool Farms, Henderson.

Reserve Grand Champion and Senior Calf Champion

"PEACH Equalizer H3,"
exh. by Peach Creek Ranch
Cattle, LLC, Granger.

Purebred Simmental Females

Junior Calf Champion

"TK/FCC Cream Soda," exh. by
Leah Schmitt, Mount Pleasant.

Reserve Junior Calf Champion

"TL Sassy 125H,"
exh. by Claire Morgan, Egan, LA.

Grand Champion and Senior Calf Champion

"GBC XTB Hazel H03,"
exh. by XTB Cattle, Canton.

Reserve Grand Champion and Reserve Senior Calf Champion

"4/B Miss Quantum Leap 20H,"
exh. by Avery McInvale, Lockney.

Junior Yearling Champion

"JSSC Haley 970G,"
exh. by Tucker Gamble, Joaquin.

Reserve Junior Yearling Champion

"LSSC Miss Nervous Nelly 605G,"
exh. by Jayden Johnson,
Colmesneil.

Summer Yearling Champion

"PSCS Alley's Lady 804G ET,"
exh. by Cash Dale, Point.

Senior Yearling Champion

"MLCC/WLE Queen G13,"
exh. by Cash Dale, Point.

Reserve Senior Yearling Champion

"SJCC Gretchen G026,"
exh. by Tyler Hammond, Manvel.

Grand Champion Cow/Calf Pair

"FBFS Francesa 305F," exh. by
Kaylee McInvale, Lockney.

Reserve Grand Champion Cow/Calf Pair

"LSSC Miss Bacardi 315F,"
exh. by Jordan VanDevender, Buna.



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Feeder Profit CALCULATOR™

beef@internationalgeneticsolutions.com

Percentage Simmental Females

Junior Calf Champion

"Brownlee Miss Broken Regard,"
exh. by Kari Bayer, Gainesville.

Reserve Grand Champion and Senior Calf Champion

"SVJ Keep Dreamin' H01,"
exh. by Cash Dale, Point.

Reserve Senior Calf Champion

"R/F BB H717,"
exh. by XTB Cattle, Canton.

Junior Yearling Champion

"FBFS Gigi Goode 124G,"
exh. by Avery McInvale, Lockney.

Grand Champion and Senior Yearling Champion

"RRF Rita 215G," exh. by Morgan Jackson, Kaufman.

Reserve Senior Yearling Champion

"Miss Tables Turned,"
exh. by Lexy Brandt, Waller.

Junior Calf Champion

"LSSC Miss Loretta 312H,"
exh. by Erin Lusk, Colmesneil.

Reserve Grand Champion and Senior Calf Champion

"PEACH Lola H2," exh. by Kinleigh Compton, Hockley.

Reserve Senior Calf Champion

"Powell's Rosie,"
exh. by Robby Powell, Anna.

Grand Champion Cow/Calf Pair

"BCC Delightful Lady," exh. by Roy Baring Jr., Elmendorf.

Simbrah Females

Reserve Grand Champion and Junior Calf Champion

"Miss Cricket,"
exh. by Mike Petrus, Skidmore.

Reserve Junior Calf Champion

"Smith McCrary Roxie 52H,"
exh. by Hallie Hackett, Texarkana.

Senior Calf Champion

"Smith Crack A Smile,"
exh. by Jakob Sansom, Brenham.

Reserve Senior Calf Champion

"F/WAR Jenna Mae," exh. by Taylor Groce, Snook.

Grand Champion and Junior Yearling Champion

"Hagan Kiss Money 7G,"
exh. by Avery Rendon, Lorena.

Reserve Junior Yearling Champion

"F/WAR Dark Sister,"
exh. by Cassidy Fuchs, Burton.

Summer Yearling Champion

"Smith Liv's Something Special,"
exh. by Paisley Elizabeth Lightfoot, Needville.

Reserve Summer Yearling Champion

"RGV LMC Gayle 5G72,"
exh. by Carlos Silvestre, Fresno.

Senior Yearling Champion

"3CC CTCF Steel Beauty,"
exh. by Cassidy Fuchs, Burton.

Reserve Senior Yearling Champion

"BPB Nicki 008G," exh. by Abegayle Drabek, LaGrange.

Grand Champion Cow/Calf Pair

"BBS Rosa Mae Walker,"
exh. by Harper Mau, Columbus.

Reserve Grand Champion Cow/Calf Pair

"LMC SSC Lyla 843F," exh. by Jayden Johnson, Colmesneil.

"Breed Bash" Multi-Breed State Field Day

Date: June 6, 2021

Location: Brush, CO

Judge: Cheramie Viator, TX



Owned Champion, Grand Champion Simmental and Reserve Multi-Breed Supreme Female

"KLER Rain Marie 083H,"
s. by KMCC.KLER Game On,
exh. by Blake Fabrizio, Carr.



Bred & Owned Champion, Grand Champion Percentage Simmental Female

"Lady May 1H,"
s. by Lees Makers Mark,
exh. By Blake Fabrizio, Carr. ■

Dual-Register Animals

Through ASA's open herdbook, breeders dual-register cattle to receive more meaningful EPD from the largest multi-breed beef cattle genetic evaluation in the world. Simultaneously, breeders use additional ASA programs to paint a more complete picture of herd performance.

Anyone can apply for registration on an animal registered with another breed association. The dual registry includes a 4-generation pedigree and up-to-date genetic traits from the original association.

Many producers find that dual registration provides:

- a complete pedigree on the progeny's registration certificate
- the registered Angus™ or Red Angus progeny could qualify for the SimAngus certification
- ties with other offspring in the database for genetic evaluation, creating more meaningful EPD

If you need a foundation registration expedited, you may opt to pay the priority processing fee of \$50 per head. Priority handling is normally completed within 48 hours for error-free applications.

To get started, email a list of the other breed association numbers with tattoos and your membership number to simmental@simmgene.com.

For more information about other-breed genetic defect information, donor dam, and AI sire requirements, check out the Down to the Genes article on page 34.

Dual Cow Registry Promotion for 2022 Fiscal Year Only!

Making access to complete herd data easier, The ASA Board of Trustees recently passed an open-breed promotion to dual-register cows that are registered with another breed association at the nominal rate of \$5.00 per head for the fiscal year 2022 (July 1, 2021, to June 30, 2022). Starting in July 2021, the ASA will reduce the rate to register a cow already registered in another recognized breed association from \$17.00 to \$5.00.

For more information on the promotion, go to page 28. ■

ARKANSAS

Johnny Gunsaulis
15853 Deerwood Rd
Siloam Springs, AR 72761

CALIFORNIA

Aly Guerra
2211 Crystal Dr
Santa Maria, CA 93455

CONNECTICUT

Pleasant View Farms Inc
452 S Rd
Somers, CT 6071

FLORIDA

CB Show Cattle
350 Howard Avenue
Lakeland, FL 33815

Todd Henson
27920 Crosby Rd
Myakka City, FL 34251

Evans Family Ranch
15399 Evans Ranch Rd
Lakeland, FL 33809

GEORGIA

Weaver Farm
4925 Newington Hwy
Sylvania, GA 30467

INDIANA

K Creek Farms
1867 S 425 W
Franklin, IN 46131

ILLINOIS

Lacey Knodle
12459 Nokomis Rd
Fillmore, IL 62032

Dara Entwistle
326 State Route 10
New Holland, IL 62671

Phillip Brown
5838 S Gras Rd.
Elizabeth, IL 61028

IOWA

Byron Wohlers B Wohlers Cattle
18595 Whippoorwill Rd
Missouri Valley, IA 51555

Tad Tebockhorst
1973 Hemlock Ave
West Chester, IA 52359

Justin Curtis
616 2nd St SE
Dyersville, IA 52040

KANSAS

Matt Deyoe
4519 West Road 17
Ulysses, KS 67880

Nickeson Simmental / Irvine Ranch
19757 482nd Ave
Manhattan, KS 66502

KENTUCKY

Workman Farms
2988 Sunnyside Rd
Smithfield, KY 40068

Stephen Rodgers
6530 Greensburg Rd
Greensburg, KY 42743

MINNESOTA

Chandler Gramm
11833 Pelican Heights Road
Ashby, MN 56309

MISSOURI

Lynn Snow
21851 Smasal Rd
Sedalia, MO 65301

Graves Farms
838 E 330 Rd
Flemington, MO 65650

Jarred Samson
17407 Jackson Rd
Boonville, MO 65233

MISSISSIPPI

Shoemaker Farms
8146 Hwy 481 N
Morton, MS 39117

Joseph Stewart
6001 Hwy 614
Moss Point, MS 39562

NEW JERSEY

Kevin Wundrack
46 Puder Rd
Newton, NJ 7860

NEW YORK

Haley A Severance
1037 Stevenson Rd
Westport, NY 12993

OHIO

Kenneth Lucas
5262 Germantown Liberty Rd
Germantown, OH 45327

Marion Melmore Buggy Shop
1435 Marion Melmore Road
Bucyrus, OH 44820

Darrell Grimwood
1605 Township Road 395
Jeromesville, OH 44840

Mingo Valley Angus
8101 Stevenson Road
Cable, OH 43009

OKLAHOMA

Olson Cattle Company
24763 Ns 421 Road
Nowata, OK 74048

PENNSYLVANIA

K-Cherry Hill Farm
19461 Cherry Hill Rd
Corry, PA 16407

April Brummage
367 Ridge Road
Spraggs, PA 15362

SOUTH DAKOTA

Kopfmann Livestock
3703 Dakota Ave S
Huron, SD 57350

TEXAS

Jackson Farm
3884 Greathouse Rd.
Waxahachie, TX 75167

Lawrence Gile
1130 Lazy Bend Rd
Millsap, TX 76066

Gunner Purcell
114 Arnulfo Diaz St
Eagle Pass, TX 78852

Bautsch Cattle
PO Box 553
Devers, TX 77538

VIRGINIA

E and H Farm
162 Crooked Oak Ln
Wytheville, VA 24382

Jamie Perkins
2255 Courthouse Rd
Louisa, VA 23093

Michael Stickley
1897 Junction Road
Strasburg, VA 22657

WEST VIRGINIA

Lazy K Farm
2869 Statts Mills Rd
Ripley, WV 25271

Ricky Fields
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Critchley Farms LLC
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Danese, WV 25831

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"The opportunity to use the very best young sires available each year through AI in these herds will leave a legacy of great females and more predictable and valuable feeder cattle."

- Marty Ropp, Allied Genetic Resources

Commercial Herds Receive:

- Free Genetic Evaluation Enrollment
- Free Semen on elite AI sires
- \$60 paid for each calf with a carcass record
- Free genotyping

Look for the Logo!



Become a Cooperator Herd Today - carcdata@simmgene.com

AMERICA'S COW

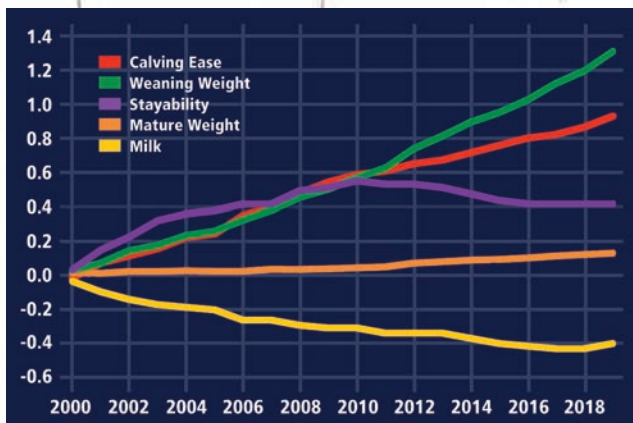
Simmental, SimAngus™, SimAngus HT, and Simbrah.

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: USDA MARC

\$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
- 2 Breeding 25 females/year
- 3 Used for 5 years

Bull	1 \$API		2 # Females per year		3 # years using the bull		Profit Potential	
A	\$120	X	25	X	5	=	\$15,000	
B	\$180	X	25	X	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 MEANS 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.

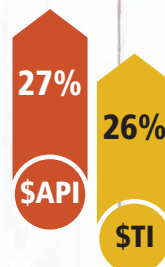
Trait	Simmental rank compared to other Continental breeds
Marbling	First
Carcass Weight	Second
Back Fat	Second
Post Weaning Gain	First

Source: USDA 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.

DNA Services (Contact ASA For Testing Kits)

Genomic Tests:

*GGP-100K	\$50
GGP-uLD	\$33

**Add-on tests available*

	Stand Alone	Add-on
**Parental Verification (PV)	\$18	Free
Coat Color	\$20	\$9
Red Charlie	\$15	NA
Horned/Polled	\$33	\$19
PMel (Diluter)	\$20	Free
Oculocutaneous Hypopigmentation (OH) ..	\$25	
BVD PI	\$5	

Genetic Conditions Panel \$25

(Must run with GGP-100K)

Arthrogryposis Multiplex (AM)
Neuropathic Hydrocephalus (NH)
Developmental Duplication (DD)
Tibial Hemimelia (TH)
Pulmonary Hypoplasia with Anasarca (PHA)
Osteopetrosis (OS)
Contractural Arachnodactyly (CA)

(Individual defect tests can be ordered for \$25.)

***Research Fee charged at \$1.00/min – Includes but is not limited to: DNA re-checks to more than 2 additional parents, multi-sire pastures, excess time spent to confirm parentage, mis-identified samples, and samples arriving at lab without proper ASA paperwork.*

****Prices are subject to change*

DNA Collector Fees: Allflex TSU - \$20.00 (box of 10) • Allflex Applicator - \$40.00 • Blood Cards - \$1.00 ea. (processing fee)
Hair Cards - \$5.00 ea. (processing fee) • Sample Pull Fee - \$2.00 ea.

THE Enrollment

Spring 2022 THE Enrollment – (dams calve January 1-June 30) –
Early enrollment open October 15 through **December 15, 2021**.
Late enrollment available until February 15, 2022.

Fall 2021 THE Enrollment – (dams calve July 1-December 31) –
Early enrollment open April 15 through **June 15, 2021**.
Late enrollment available until August 15, 2021.

	Option A (TR)	Option B (SR)	Option C	Option D (CM)
Early Enrollment	\$15.00	FREE	\$7.50	\$500/herd
*Late Enrollment	\$16.00	\$1.00	\$8.50	\$500/herd
*Late enrollment fees				

A re-enrollment fee of \$35.00 applies to any dam that is removed from inventory and re-enters the herd at a later date.

A member who has dropped out of THE and wishes to return, may do so for the next enrollment season. Re-enrollment fee is \$35 per animal (maximum of \$350) plus enrollment fees. Non-THE registration fees will apply to the calendar year when a member did not participate in THE.

American Simmental Association Fees

First Time Membership Fee:

Adult First Time Membership Fee*	\$160
<i>(Includes: \$50 set-up fee and \$110 ASF)</i>	
Junior First Time Membership Fee*	\$40
Prefix Registration	\$10

**After January 1: \$105 for Adults and \$40 for Juniors*

Annual Service Fee (ASF)*:

Adult Membership	\$110
Junior Membership	\$40

Fiscal year runs from July 1 – June 30

Registration Fees:

Registration Fees enrolled in THE

Enrolled in Option A	No Charge
Enrolled in Opt B or C <10 months	\$30
Enrolled in Opt B or C 10 months <15 months ...	\$40
Enrolled in Opt B or C 15 months	\$50

Transfer Fees:

First Transfer	No Charge
<i>Subsequent Transfers</i>	
Within 60 calendar days of sale	\$10
Over 60 calendar days after sale	\$30

Additional Transactions:

Priority Processing <i>(not including shipping or mailing)</i>	\$50
Corrections	\$5

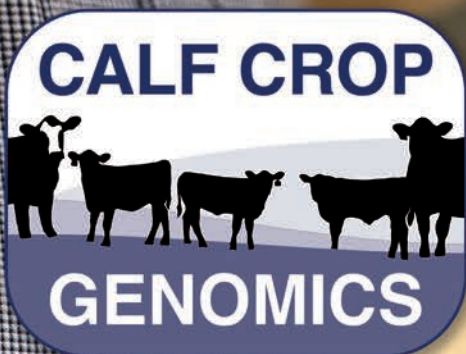
Registration Foreign/Foundation Fees:

Register Foundation Cow	\$17
Register Foundation Bull	\$25

Registration Fees not enrolled in THE:

Non-THE <10 months	\$42
Non-THE 10 months <15 months	\$52
Non-THE 15 months	\$62

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DATE BOOK

Register

JULY

- 31 Simmental Breeders Sweepstakes Sale – Louisville, KY

SEPTEMBER

- 4 Four Starr Genetics' 3rd Annual Production Sale – Eugene, MO (pg. 71)
- 4 North Carolina Fall Harvest Sale – Union Grove, NC
- 5 Midwest Fleck Event – Osawatomie, KS (pg. 7)
- 8 Trauernicht Simmental's Customer Appreciation Event – Wymore, NE
- 11 ETSSA and HOTSSA Fall Fest 2021 – Henderson, TX,
- 11 Kentucky Fall Sale – Lexington, KY
- 15 Gonsalves Ranch's Bulls Eye Breeders Angus and SimAngus™ Bull Sale – Modesto, CA
- 18 Family Matters Sale – Auburn, KY
- 18 Fleckvieh Heritage Sale – Roland, OK (pg. 17)
- 19 Illini Elite Simmental Sale – Shelbyville, IL
- 23 2021 Beef Solutions Bull sale – Ione, CA
- 25 Head of the Class Sale – Louisburg, KS
- 25-26 Synergy XIV Sale – Giddings, TX
- 25 The Seedstock Connection Sale – Lyles, TN
- 26-27 Fall Fiesta Simmental Sale – www.dponlinesales.com

OCTOBER

- 2 Buckeye's Finest Sale – Zanesville, OH (pg. 45)
- 2 Factory Direct Sale – West Lafayette, IN
- 3 "Our Vision, Your Future" Sale – Chalmers, IN
- 3 WSA Midwest Fall Round-Up Sale – Lancaster, WI
- 8 Ladies of the Lone Star Sale – Grand Saline, TX
- 9 New Direction Sale – Seward, NE (pg. 43)
- 9 Trinity Farms' 4th Annual "Generations of Excellence" Female Sale – Ellensburg, WA
- 11 Burlap and Barbed Wire Vol. VI Female Sale – Clay Center, KS
- 15 Buckles and Banners Sale – West Point, IA
- 16 Fred Smith Company Ranch's Extra Effort Sale – Clayton, NC
- 16 Indiana Performance Bull Test Sale – Springville, IN
- 16 MN Beef Expo – White Satin On Ice and All Breeds Sale – Minneapolis, MN
- 23 Clear Choice Female Sale – Milan, IN
- 23 Magnolia Classic – Starkville, MS (pg. 5)
- 23 Pennsylvania Fall Classic Sale – Waynesburg, PA
- 29 27th Annual Hokie Harvest Sale – Blacksburg, VA
- 30 7P Ranch's 46th Annual Production Sale – Tyler, TX
- 30 Bred for Profit Sale – Marion, MI (pg. 94)
- 30 High Ridge Farms' Genetic Opportunity Sale – Albemarle, NC
- 30 Red Hill Farms' "Bulls of Fall VII" Sale – Lafayette, TN
- 30 Yon Family Farms Fall Sale – Ridge Spring, SC

NOVEMBER

- 1 Hanel's Black Simmentals' "The Female Sale" – Courtland, KS
- 6 25th Annual Southern Showcase Sale – Rome, GA
- 6 Cason's Pride and Joy Simmentals' Maternally Inspired Female Sale – Russell, IA
- 6 Dakota Ladies Sale – Worthing, SD
- 6 Irvine Ranch Annual Production Sale – Manhattan, KS
- 7 Triangle J Ranch's Female Sale – Miller, NE (pg. 43)
- 13 Deer Creek Farm's Annual Bull Sale and Open House – Lowesville, VA
- 13 Gibbs Farms' 16th Annual Bull and Replacement Female Sale – Ranburne, AL
- 15 Bichler Production Sale – Linton, ND
- 15 Houck Rock Creek Ranch's Fall Private Treaty Sale – Allen, KS
- 19 Heartland Simmental's Performance with Class Sale – Waverly, IA
- 20 Callaway Cattle Company's AffordaBULL Sale – Hogansville, GA
- 20 Driggers Simmental Farm 10th Annual Bull Sale – Glennville, GA
- 20-23 LMC and Friends "Giving THANKS" Online Donation Sale VII – www.lamuecacattle.com
- 20 Next Step Cattle Co., 9th Annual "Boot Brand Genetics" Bull Sale – Livingston, AL
- 20 Stanley Martins Farms' Herd Reduction Sale – Decorah, IA (pg. 6)

- 27 Chestnut Angus Female Sale — Pipestone, MN
- 27 Felt Farms' Foxy Ladies Sale — West Point, NE
- 27 Trennepohl Farms' Right By Design Sale — Middletown, IN

DECEMBER

- 4 Jewels of the Northland Sale — Clara City, MN
- 4 T-Heart Ranch and L-Cross Ranch High-Altitude Female Sale — LaGarita, CO
- 4 Western Choice Simmental Sale — Billings, MT
- 11 North Alabama Bull Evaluation Sale — Cullman, AL
- 11 North Dakota Simmental Association Showcase/Classic Sale — Mandan, ND
- 12 Trauernicht Simmental's Nebraska Platinum Standard Sale — Beatrice, NE
- 17 Buck Creek Ranch's Grand Event, Vol. II — Yale, OK
- 18 South Dakota Source Sale — Mitchell, SD
- 27-28 St. Nick's Eggstravaganza — www.dponlinesales.com

JANUARY 2022

- 14 Diamond Bar S Bull Sale — Great Falls, MT (pg. 41)
- 17 National Western "The One-Volume XXVII" Sale — Denver, CO
- 28 Double J Farms' 48th Annual Bull Sale — Garretson, SD (pg. 45)
- 28 Ellingson Simmentals' Annual Production Sale — Dahlen, ND (pg. 43)
- 29 J&C Simmentals' Annual Bull Sale — West Point, NE (pg. 41)
- 30 Triangle J Ranch's Annual Production Sale — Miller, NE (pg. 43)
- 31 APEX Cattle 'Heterosis Headquarters' Annual Bull and Bred Heifer Sale — Dannebrog, NE

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- 1 S/M Fleckvieh Cattle's Private Treaty Bull Sale — Garretson, SD
- 2 Begger's Diamond V Big Sky Genetic Source Bull Sale — Wibaux, MT (pg. 41)
- 2 Lazy C Diamond Ranch's Bull and Female Production Sale — Kintyre, ND
- 3 Stavick Simmental's King of the Range Bull Sale, — Veblen, SD (pg. 47)
- 4 Cow Camp Ranch's Spring Bull Sale — Lost Springs, KS (pg. 39)
- 4 Kunkel Simmentals' Annual Bull and Bred Female Sale — New Salem, ND
- 5 Klain Simmental Ranch's 40th Annual Production Sale — Ruso, ND
- 5 Prickly Pear Simmentals "Made In Montana" Sale — Helena, MT (pg. 41)
- 5 Springer Simmental's Value Based Genetics Sale — Decorah, IA
- 7 42nd Annual Gateway "Breeding Value" Bull Sale — Lewistown, MT
- 8 Edge of the West Production Sale — Mandan, ND
- 9 River Creek Farms' 29th Annual Production Sale — Manhattan, KS (pg. 41)
- 10 Houck Rock Creek Ranch Spring Private Treaty Sale — Allen, KS
- 10 Lassle Ranch Simmentals' 29th Annual Bull Sale, — Glendive, MT
- 11 Bata Brothers/Bell Family Annual Joint Simmental Bull and Female Sale — Rugby, ND
- 11 Hook Farms and Clear Springs Cattle Co. "Bred for Balance" Sale, Starbuck, MN
- 11 TNT Simmentals' 37th Annual "Carrying On" The Explosive Difference Sale — Lehr, ND
- 12 Kenner Simmentals' 26th Annual Production Sale — Leeds, ND

- 12 Mississippi-Dixie National Sale — Jackson, MS
- 15 Quandt Brothers Annual Sale — Oakes, ND (pg. 45)
- 16 Hart Farms Beef Builder Bull Sale — Frederick, SD
- 18 Dakota Xpress Annual Bull and Female Sale — Mandan, ND (pg. 43)
- 18 Mader Ranches' 33rd Annual Bull Power Sale — Carstairs, AB
- 18 R&R Cattle Company's Annual Production Sale — Chamberlain, SD
- 18 Sandy Acres Simmental Bull Sale — Creighton, NE (pg. 43)
- 19 7P Ranch's 28th Annual Spring Bull and Female Sale — Tyler, TX
- 19 Dixon Farms, Inc., Private Treaty Sale and Open House — Atwood, KS
- 19 Rhodes Angus Annual Sale — Carlinville, IL
- 19 Schnabel Ranch Simmentals' Annual Sale — Aberdeen, SD (pg. 47)
- 20 Trauernicht's Bull Sale — Wymore, NE
- 21 Bulls of the Big Sky — Billings, MT (pg. 41)
- 23 C Diamond Simmentals' Bull and Female Sale — Dawson, ND
- 24 Illinois Performance Tested Bull Sale — Springfield, IL
- 25 Beitelspacher Ranch's Annual Bull Sale, Mobridge, SD
- 25 Mid-America Simmental Sale — Springfield, IL
- 26-3/5 Hofmann Simmental's Annual "Buy Your Way" Bull Sale — Clay Center, KS

MARCH

- 1 Doll Simmental Ranch's 42nd Annual Production Sale — Mandan, ND
- 1 Hill's Ranch Bull Sale — Stanford, MT
- 2 Klein Ranch's "Heart of the Herd" Sale — Atwood, KS
- 3 18th Annual Cattlemen's Kind Sale — San Saba, TX
- 3 Keller Broken Heart Ranch Annual Production Sale — Mandan, ND (pg. 45)
- 4 Eichacker Simmentals' Annual Bull Sale — Salem, SD (pg. 45)
- 4 KSU's Annual Legacy Sale — Manhattan, KS
- 5 Trinity Farms' Generations of Excellence Sale — Ellensburg, WA (pg. 47)
- 6 Gold Bullion Group's Annual Bull Sale — Wamego, KS
- 7 Hanel's Black Simmentals' Black and White Bull Sale — Courtland, KS
- 7 Rincker Simmentals' Sweet 16 Bull Sale — www.sconlinesales.com
- 12 Carcass Performance Partners Bull and Female Sale — Lucedale, MS
- 12 Northwest Select Simmental Sale — Ross, ND
- 13 22nd Annual Gonsior Simmentals' "In The Heartland" Sale — Fullerton, NE
- 14 Dikeman and Huninghake Premium Genetics Simmental and Angus Bull Sale — Wamego, KS
- 15 Schrader Ranch SimAngus™ and Charolais Bid Off Sale — Wells, KS
- 18 3C Christensen Ranch and NLC Simmental Ranch 51st Annual Production Sale — Wessington, SD (pg. 45)
- 18 Sunflower Genetics' Annual Production Sale — Maple Hill, KS (pg. 41)
- 19 Altenburg Super Baldy Ranch's 30th Anniversary Annual Bull and Heifer Sale — Fort Collins, CO
- 19 Dickinson Simmental and Angus Ranch 51st Annual Production Sale — Gorham, KS (pg. 39)
- 19 Red Hill Farms' "More Than a Bull XVII", Bull and Female Sale — Lafayette, TN
- 19 High-Bred Simmentals and Marple Simmentals Cattlemen's Choice Sale — Fredonia, KS
- 19 Eastern Spring Classic Sale — Columbus, OH
- 21 All Terrain Bull Sale — Walsh, CO (pg. 39)
- 23 Diamond H Ranch's Annual Production Sale — LaCrosse, KS (pg. 39) ■

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October '21	August 30	Sept 10	Sept 20	Oct 4
November '21	Oct 1	Oct 11	Oct 21	Nov 5
Dec '21/Jan '22	Nov 12	Nov 19	Dec 3	Dec 20
February '22	Dec 28	Jan 4	Jan 18	Feb 4
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April '22	March 1	March 10	March 19	April 4
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1. Council for Agricultural Science and Technology (CAST), 1999. Animal Agriculture and Global Food Supply. Task force report N. 135 July 1999, Department of Animal Science, University of California, Davis, CA, USA. Available at: <http://agrienvarchive.ca/bioenergy/download/anag.pdf>
2. National Academies of Sciences, Engineering, and Medicine. 2016. Nutrient Requirements of Beef Cattle: Eighth Revised Edition. Washington, DC: The National Academies Press. <https://doi.org/10.17226/19014>



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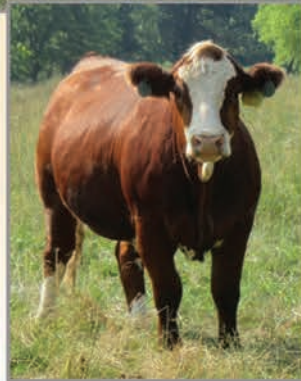


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EPD: CE: 11 \$API: 135 \$TI: 89



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W/C Bankroll

W/C Pinnacle E80

By W/C Loaded Up 1119Y
EPD: CE: 16 \$API: 124 \$TI: 73



W/C Night Watch 84E

By CCR Anchor 9071B
EPD: CE: 19 \$API: 158 \$TI: 89



NEW

DMCC Black Velvet 5E

By Pays To Believe
EPD: CE: 4 \$API: 99 \$TI: 73



SSC Shell Shocked 44B

By Remington Secret Weapon 185
EPD: CE: 20 \$API: 134 \$TI: 69



THSF Lover Boy B33

By HTP/SVF Duracell T52
EPD: CE: 16 \$API: 150 \$TI: 88



NEW

JC King of the Road 468H

By KBHR High Road E283
EPD: CE: 16 \$API: 182 \$TI: 99



NEW

Ruby NFF Up The Ante 9171G

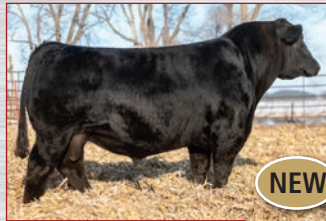
By Ruby's Currency 7134E
EPD: CE: 11 \$API: 116 \$TI: 71



NEW

ACLL Fortune 393D

By MR TR Hammer 308A ET
EPD: CE: 8 \$API: 94 \$TI: 74



NEW

W/C Double Down 5014E

By W/C Executive Order 8543B
EPD: CE: 16 \$API: 111 \$TI: 74



Ruby SWC Battle Cry 431B

By MR HOC Broker
EPD: CE: 11 \$API: 98 \$TI: 76



NEW

Mr SR 71 Right Now E153R

By Hook's Bozeman 8B
EPD: CE: 18 \$API: 157 \$TI: 91



NEW

GSC GCCO Dew North 102C

By HTP/SVF Duracell T52
EPD: CE: 15 \$API: 118 \$TI: 83



PAL/CLAC Meant To Be 823E

By Mr HOC Broker
EPD: CE: 13 \$API: 108 \$TI: 67



3/4 NAILE and
NWSS Champ

Reckoning 711F

By W/C Relentless 32C
EPD: CE: 13 \$API: 115 \$TI: 69



NEW

TJS King of Diamonds 165E

By LLSF Pays To Believe ZU194
EPD: CE: 11 \$API: 105 \$TI: 72



NEW

PBF Red Paint F88

By W/C Executive Order 8543B
EPD: CE: 14 \$API: 113 \$TI: 74



NEW

SC Pay the Price C11

By CNS Pays to Dream T759
EPD: CE: 7 \$API: 105 \$TI: 72



NEW

JASS On The Mark 69D

By W/C Loaded Up 1119Y
EPD: CE: 11 \$API: 126 \$TI: 76



W/C Relentless 32C

By Yardley Utah Y361
EPD: CE: 10 \$API: 111 \$TI: 74



NEW

3/4 SimAngus™

WLE Copacetic E02

By HPF Quantum Leap Z952
EPD: CE: 12 \$API: 112 \$TI: 77



NEW

Holtkamp Clac Change Is Coming 7H

By WLE Copacetic E02
EPD: CE: 13 \$API: 107 \$TI: 74



NEW

W/C Bankroll 385H

By W/C Bankroll 811D
EPD: CE: 13 \$API: 138 \$TI: 81



NEW

3/4 SimAngus™

LLSF Vantage Point F39H

By CCR Anchor 9071B
EPD: CE: 11 \$API: 129 \$TI: 88



WS Revival B26

By LLSF Uprising Z925
EPD: CE: 10 \$API: 112 \$TI: 71



LLSF Pays To Believe ZU194

By CNS Pays To Dream T759
EPD: CE: 8 \$API: 112 \$TI: 79



W/C Bankroll 811D

By W/C Loaded Up 1119Y
EPD: CE: 13 \$API: 124 \$TI: 78



CLRS Guardian 317G

By Hook's Beacon 56B
EPD: CE: 19 \$API: 206 \$TI: 108



KSU Bald Eagle 53G

By Hook's Eagle 6E
EPD: CE: 14 \$API: 173 \$TI: 104



WLE Black Mamba G203

By WLE Copacetic E02
EPD: CE: 13 \$API: 137 \$TI: 81



FELT Perseverance 302F

By W/C Executive Order 8543B
EPD: CE: 14 \$API: 108 \$TI: 72



W/C Express Lane 29G

By Rubys Turnpike 771E
EPD: CE: 14 \$API: 131 \$TI: 79



MR CCF The Duke G42

By Mr CCF Vision
EPD: CE: 11 \$API: 113 \$TI: 72



Erixon Bitten 203A

By NCB Cobra 47Y
EPD: CE: 16 \$API: 144 \$TI: 86



LCDR Favor 149F

By LCDR Witness 541C
EPD: CE: 9 \$API: 156 \$TI: 101



SFG The Judge D633

By CCR Cowboy Cut 5048Z
EPD: CE: 9 \$API: 150 \$TI: 97



TL Ledger 106D

By Profit
EPD: CE: 10 \$API: 105 \$TI: 66



GPG Focus 135F

By Mr CCF 20-20
EPD: CE: 7 \$API: 113 \$TI: 75



OBCC Kavanaugh F236

BBy OBCC Unfinished Business
EPD: CE: 12 \$API: 135 \$TI: 80



WS Proclamation E202

By CCR Cowboy Cut 5048Z
EPD: CE: 13 \$API: 169 \$TI: 104



JBSF Logic 5E

By W/C Relentless 32C
EPD: CE: 7 \$API: 105 \$TI: 68



WHF/JS/CCS Double Up G365

By W/C Double Down
EPD: CE: 16 \$API: 121 \$TI: 72



Mr CCF Vision Z60

By Mr NLC Upgrade U8676
EPD: CE: 11 \$API: 105 \$TI: 80



Perfect Vision 26D

By MR CCF Vision
EPD: CE: 13 \$API: 114 \$TI: 76



RRF Trading Up E777

By Pays to Believe
EPD: CE: 13 \$API: 127 \$TI: 76



JSUL Something About Mary 8421

By W/C Relentless 32C
EPD: CE: 9 \$API: 103 \$TI: 68



CDI Innovator 325D

By TJ Main Event 503B
EPD: CE: 13 \$API: 142 \$TI: 92

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