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Linking SimGenetics to Commercial Cattle

In This Issue:

A System Approach to the Cattle Business Genetic Awareness of Commercial Cattle What do Google, Amazon, Facebook, and IGS all have in Common? Birth Weight Update for the Approaching Calving Season Putting The Best Foot Forward Culbertson Joins ASA and IGS Team

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Greetings from Bozeman! Welcome to a new year – and a new decade. How the heck did that happen?!

The new year is often a time for reflection, and when

we make all those resolutions that we don't keep. But during your time of reflection at the start of 2020, I'd encourage you to take a hard look at the good and the bad of 2019. What can you do differently this year to make your ranch, your family, and your community better? 2019 was a challenging year for us in the agriculture industry, and many of those challenges came from Mother Nature.

I'm not sure that I'm emotionally recovered from a brutal calving season last year, and it will be time for another set of calves to arrive before we know it! We made a very conscious decision at our place to shift our breeding season just a bit later to try to better manage around that late February and early March subzero blizzard in case it happens again. And it's probably a safe bet that many of you have made those kind of decisions and plans based on what 2019 put in your path.

While it hurts to poke at those tender spots you uncover when you look back at the tough parts of the last year, don't forget to take some time to cherish the good stuff. We have a heifer calf we kept who froze her ears so close to her head she looks like a LaMancha goat. Her name is Rampage because once she got warmed up in the porch, she decided she was really hungry and went on a bit of search-and-destroy mission. I smile every time I see her. We are resilient and optimistic stock, my friends. We wouldn't be in this business otherwise. Wishing you and yours health and happiness in 2020.



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A System Approach to the Cattle Business

by Emme Troendle, ASA Editor Cattle photos courtesy of Bailey Herrin, Herrin Livestock Services

Davis Cattle A South Carolina commercial breeder implements a strategic business plan to manage his cattle operation.

"It's like any rancher: you love it, or you don't do it." says Joe Davis, owner and operator of J. Davis Cattle, located outside Westminster, South Carolina, a little town on the northwestern tip of the state. "I've had cattle for close to 53 years, but I didn't get into the 'cattle business' until 2001 when I retired from Duke Energy, where I was a manager for 30 years."

Since retirement, Davis and his wife, Mandy, have developed a 200-head cattle operation built around a meticulous business plan, including three-way crossbreeding, precise forage and nutrition, carcass data, and a strict production cycle.

Four Parts Practical

"When I began in the cattle business, I started off with the notion that it would be less intense than managing a nuclear power plant," Davis says, "Quickly, I realized that, unlike working for a large company where you have an accountant, an insurance and human resources department — in the cattle business, the rancher has to wear all those hats. I'm the accountant, mechanic, tax expert, and to a little degree I have to be a geneticist, too."

"I used to go to meeting after meeting, training session after training session. I spoke with Dr. Matthew Burns, State Extension Livestock Agent, and many others at Clemson University. Over the years, I took lots of notes, and through trial and error developed a four-part business plan to organize all the elements that go into what I hope is — a successful operation." Davis jokes.

The business plan details the ranch's three-part cow-calf, stocker, and replacement heifer operation. "All the areas of my business plan came from the school of hard knocks. I learned that if I made a change in one thing, then it affected other areas as well — it all had to interact. Sure, my father had 50 to 60 cows the entire time I was growing up, but it wasn't like the operation that we have today."

Davis explains, "Most economists say it takes three to four calves before a cow has paid for her lifetime of production. If she doesn't produce one year, then you're moving this up another calf or two. A cow or heifer must calve every 12 months or she can't stay."

All open replacement heifers, open cows and any cow that doesn't produce a quality calf is sold at the local sale barn. Only bred-replacement heifers and cows nursing a calf are carried through the following winter.

From May to October, all productive calves are developed, and typically in October steers are shipped to a feedlot with expected harvest around January or early February the following year. The ship date is largely influenced by that year's forage. If there is a drought, cattle are shipped earlier, but if there is enough grass, cattle will graze longer.



Joe Davis and Mike Hall, ranch herdsman, discussing day to day cattle operations.

Unlike many cow-calf operations, ownership of steers is retained through harvest, and they receive carcass data back on each animal. "Our feedlot partner, Tracy Brunner, at Cow Camp Feedyard does a great job properly feeding and marketing our calves each year," Joe Davis shares.

Stuck on SimAngus™HT

Starting out in the cattle industry, Davis focused on breeding a two-way cross with registered Angus and Brangus bulls, but was still looking for the right balance of heterosis for optimal performance in replacement females and calves developed in the feedlot.

"I bred with Brangus bulls because I wanted a little bit of the Zebu line for heterosis, but I did not want to bring too much Brahman into my herd than that because we have cold winters. We get below freezing regularly," he explains.

Later, Simmental was incorporated into a three-way rotational crossbreeding program. Today, all calves produced on the ranch are commercial SimAngusTMHT. Davis elaborates on why he has remained committed to the breed rotation, "It's the most profitable way to make a crossbred female. Every academic article I read stated that you get the most stayability, productivity, and profit by using breeds that are distant in their relationship. That is why these three are the right mix for me: Angus, Brahman, and Simmental."

In a typical breed rotation, the female is synchronized and bred first AI, then 10-days later put out with a natural service sire of the same breed as the AI sire. This bull will be the breed of her great grandsire — the breed that she is least related to, keeping the heterosis at the maximum level for the next generation. Davis describes, "If her sire is an Angus, her grandsire is a Brangus, and her great grandsire is a Simmental, then she should always be bred to a Simmental bull."

Both the AI sire selection and herd bulls are purchased directly from the same three seedstock producers each year. Simmental is purchased from Gibbs Farms, Ranburne, Alabama; Angus from Yon Family Farm, Ridge Spring, South Carolina; and Brangus from Salacoa Valley Farms, Fairmont, Georgia. "The herd bulls are from the same genetic pool as the AI sires, if it's not a son of the sire. This keeps us more uniform." CONTINUED ON PAGE 12



Joe Davis received the 2019 GSSA Commercial Cattlemen of the year. Left to right: Mike, Debbie, and Jayen Hall; Ryliegh, Joe, Jackson, and Mandy Davis; and Billy Moss who presented the award.

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A System Approach to the Cattle Business

CONTINUED FROM PAGE 9

Data Driven

The next portion of the business plan is designed around forage, feed, and facilities for his cattle operation. They supplement developing heifers after weaning. Pregnant heifers and second-calf cows are supplemented as well, 30 days before calving until 30 days after breeding, but all fully mature cows receive forage only. Davis says, "We group females in pastures based on their nutritional needs breeding heifers, bred heifers, and first-calf cows, and mature cows are all grouped separately."

This last fall, they calved 160 females, and bred an additional 54 heifers in November and December. Davis runs a tight 45-day breeding season on heifers, and 65 days for cows. All females, including heifers, are artificially inseminated. "For the last 20 years, we have only had one calving season. We focus on a high reproductive efficiency. We do not keep a cow or heifer that doesn't produce a marketable calf every year."

Cow Sense[®] computer application is used to collect, store, and organize all of their herd data. "We have learned to use our data in almost every decision making situation. For example, when selecting which heifers will make replacements, which steers to send to the feedlot, which calves to send to the sale barn, and which cows to cull."

At the urging of Will Townsend, ASA's former Director of Industry and Commercial Operations, J. Davis Cattle became the guinea pig for ASA's commercial option in Total Herd Enrollment. "We report data at every stage to ASA — birth, weaning, yearling, and harvest. In turn, we receive EPDs for each animal in the herd. We ended up being the first commercial breeder in the program. It's

definitely been a learning experience." Davis remarks.

In addition to calf data, mature dam weights, hip heights, body condition and udder scores, and feet and leg scores are collected. "We really can't collect any more data than what we currently do, but all of it is useful in making selections."

A 2019-born SimAngusHT calf.



Heifers that are not retained in the herd are developed for private-treaty sale. Any female that doesn't make the cut as replacement for himself or his customers is sold at the local sale barn.

For the first time in 2019, Davis offered commercial replacement females for private treaty sale. A few were sold this year, but next year's sale will have a larger offering. He says, "The customers have already called me back and told me how pleased they are, so it's an encouraging start!"

At the end of each year, Davis looks forward to getting his carcass data back. Consistently each year, the carcasses grade choice or better. "When you look at it, the purpose of the cattle industry is to put meat on the table. With everything we do, we are trying to produce a quality product. The carcass data is the closest I get to knowing how I have met my customers' expectations, and I know the actual value of the product I am producing. Getting the results tells the story on whether I was successful."

Davis continuously focuses on learning and improving the operation by attending as many training sessions as possible and keeping up to date on the best cattle management practices. "Normally, when people ask me about our cattle operation, they ask 'Are you profitable?' I tell them that I think I am on the right track — I share my business plan because I strongly believe that if you don't keep good data and a good plan, it's like playing Russian Roulette — you don't know your outcome.

"My ranch is a work in progress; I am not saying that if you listen to my business plan you'll make gobs of money," Davis laughs. "However, I have built a system's approach to the cattle business. Our system is a workable system, but I know it will always have to be improved." CONTINUED ON PAGE 14



Based on the three-breed rotation of Angus, Brangus, and Simmental, each female is always bred to the sire she is least related for maximum heterosis.

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A System Approach to the Cattle Business

CONTINUED FROM PAGE 12



Heifers and cows are expected to have a calf each year to remain in the herd.

Working on the Fifth Generation

Davis is the third generation to grow up and live on the family farm, but it wasn't always in cattle. The first location, purchased in the 1920s by his grandfather, started out in cotton. Davis described the transition of the operation through generations to the ranch they own today. "In the 1950s and 1960s cotton went out, and most of it was converted to either grazing pasture — or pine trees. Today, I have cleared a lot of that."

Since the age of 10, he worked on the family operation. His father was a school administrator, the ranching and farming was a side job. Davis describes his wife Mandy's family ranch history mirroring his own. Her father was the high school Agriculture teacher. The farming and ranching was a side endeavor for her father as well.

When he took over in 2001, Joe and Mandy combined the two family operations, including purchasing property from an uncle and aunt on Mandy's side. Today they graze 470 acres, split in five locations. Davis explained, "Each place has a little bit of a different story, but no one person managed all five places until we came along."

Mike Hall, a family friend for many years, is the ranch herdsman for J. Davis Cattle. "He started about ten years ago. Mike and I plan and carry out all the activities on the ranch. We discuss every decision and come to a consensus before we act. Mike is a gifted cattleman. He does all our AI work too," Davis says.

Joe and Mandy have two sons. The eldest son, Mark, 43, works as a consultant for two international companies. The youngest son, Joel, 40, lives on the ranch and helps whenever he gets the opportunity. He is also the owner and president of a construction company called J. Davis Inc. He and his wife, Michelle, have three children: Jackson, 17, Ryleigh 14, and Theo, 9.

"Our mission, that we started with in 2001, is the same even though we made a lot of changes to how we do it," Davis concludes, "We are committed to using the resources of land, cattle, and the abilities God has entrusted to us in a God-honoring way at all times to produce high-value beef and replacement females for others while increasing the environmental quality of the land and the financial value of cattle."

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Genetic Knowledge in Commercial Herds

Four approaches to genetic awareness

By Chip Kemp, Rachel Endecott, Ph.D. and Jackie Atkins, Ph.D.

Genetic awareness within the commercial beef sector has been a much-discussed topic and an ongoing challenge to make a pervasive reality. Ideally, commercial producers would see the rationale behind serious collection of phenotypes and genotypes, have the resources to capture them, and use the data to improve the profitability of the herd; however, the practicality of the matter may be very different. Given the limited time and dollars available within commercial environments, the expense of collecting records needs to be offset with a ready manner in which to use and profit from the data.

Clearly, commercial producers hold the keys to obtaining genetic knowledge on certain hard-to-collect traits such as cow longevity, feedlot, and carcass data. While progressive seedstock producers prioritize these data points, in many seedstock operations cows turn over quickly in the pursuit of genetic progress and a high percentage of male calves are destined for a bull battery and not meat production. Thus, commercial producers have access to insight that seedstock breeders may not have the ability to collect. Commercial data promises immense value in genetic prediction.

The difficulty of capturing value from commercial data collection may limit the bottom-line focus of the commercial audience unless the demand for data can

be turned into tangible actions and subsequent dollars for the commercial operation.

There are two primary pivot points that will determine the uptake of serious data collection and use in the commercial sector:

- The production of and demand for slaughter cattle with more predictable profit potential, whether that takes the form of retained ownership or the marketing of value-added feeder calves.
- 2. Replacement females with reliable predictability of long term cow performance.

The Beef Improvement Federation (BIF) and likeminded organizations need to continue to engage and relay information to those entities involved in the marketing of feeder cattle, cattle feeding, the harvesting of terminal cattle, and the promotion and sale of beef products if we are to significantly grow the appetite for serious genetic awareness of feedlot and carcass traits in the commercial sector. The beef cattle industry should continue to advocate for whole life-cycle indexes that reflect a holistic view of the impact a female has on the bottom line of an operation, including female longevity without ignoring the end product (beef).

Commercial producers recognize these fundamental ingredients of a herd improvement program:

- A controlled breeding and calving season(s)
- Adoption of a mating system that uses heterosis
- Selection and use of superior sires for traits economically relevant to the system
- Selection of replacement females
- Culling of the cow herd based on economically relevant criteria

For those commercial producers who seek to add genetic awareness to their decision-making process, there are multiple approaches available. The different approaches come with varying levels of ease, time commitment, expense, and different levels of genetic insight. The ASA has programs specifically built for improved genetic awareness in commercial herds ranging from valuating feeder calves to full scale genetic evaluation including genomics. If you are interested in learning more about ASA's commercial offerings, **contact Chip Kemp at ckemp@simmgene.com**.

Approach A: Bull knowledge alone

Purchase bulls from trusted seedstock providers and use the genetics of the bull battery as a proxy for herd knowledge. In this scenario, commercial producers are taking advantage of the genetic credibility provided by their seedstock supplier. No further steps are taken by the commercial operation to refine the genetic awareness of their herd.

Pros

- Easy no added effort after purchase of bull(s) for record collection or DNA testing.
- No added expense after bull purchase.
- Allows access to most feeder calf verification programs (e.g. IGS Feeder Profit Calculator™) as do the remaining approaches.

Cons

- Provides little to no understanding of genetic differences within the herd.
- Doesn't differentiate females based on their own genetic merit.
- Provides the least genetic insight and therefore the poorest opportunity for genetic advancement of the approaches discussed.

Approach C: Structured genetic evaluation using pedigrees and phenotypes only

This approach (and Approach D) require a more significant commitment to data collection. A structured approach to individual animal identification, performance records, and reporting identified phenotypes at regularly scheduled intervals is essential to gain meaningful results. This approach opens the door for serious knowledge, but also requires significant homework to make the data usable in NCE.

Pros

- Significant genetic awareness on par with seedstock operators.
- EPDs and selection indexes can be generated across all females or an entire operation.
- EPDs and selection indexes allow for more precise decisions on heifer selection, mating, and marketing.
- Cost can be low when viewed on a per-cow basis through some genetic evaluation providers.
- Robust software, system support, and technical assistance available through some genetic evaluation providers.

Cons

- Greater time and labor commitment for data collection and reporting.
- Greater learning curve to understand the reporting software.
- Cost can be variable depending upon the provider.

Upon first glance, the demands of data reporting through a structured genetic evaluation are foreign to many commercial operations; however, many thorough and progressive producers are already capturing a large portion of the information needed — and often more. Seedstock operators should encourage their elite customers to consider this step. It empowers their customers and also provides an avenue to get more information regarding their own genetics into a genetic evaluation. All parties benefit from enhanced data collection, in particular, hard-to-capture phenotypes. The commercial customer gains more insight into their own ranch and is better equipped to determine the next step in their genetic purchases. This holds the seedstock operation more accountable for continuing to improve if they are to service that customer. In turn, the seedstock operation.

Approach B: Bull knowledge and commercial DNA tests

In addition to the knowledge acquired with bull purchases, this option incorporates commercially-available genomic tests that give a basic genetic view for in-herd comparisons. These tests range in price, efficacy, and appropriateness for various breed types or breed compositions.

Pros

- Easy typically requires only a blood or tissue sample captured chute side. The sample is sent to a commercial lab and results returned on a simplified scale.
- Provides information to make heifer retention decisions. It can be used on terminal calves, but that is usually price prohibitive. In lieu of sampling terminal calves, samples taken on replacement heifer prospects are usually viewed as a proxy for the terminal calves.

Cons

- Does not take into account the genetic awareness derived from pedigree and performance knowledge.
- Is better served as an in-herd comparison than an industry-wide comparison.
- Moderate expense. Return on investment should be considered.
- Moderate knowledge.

BIF's guiding policy makes the limitations of this approach clear: "BIF believes that information from DNA tests only has value in selection when incorporated with all other available forms of performance information for economically important traits in the National Cattle Evaluation (NCE), and when communicated in the form of an Expected Progeny Difference (EPD) with corresponding BIF accuracy. For some economically-important traits, information other than DNA tests may not be available." In place of individual animal data collection, commercially available DNA tests can shed light on genetic differences in replacement candidates.

Approach D: Structured genetic evaluation using pedigrees, phenotypes, and genomic data

This approach is the pinnacle of thorough genetic awareness. Of course, that brings with it the greatest demand of time and dollars. This approach allows a committed commercial operation to ultimately attain a similar level of genetic awareness with the most elite seedstock programs in the business. This approach isn't for every commercial program, but where appropriate adds a unique level of knowledge and informed selection not possible with the other approaches.

Pros

- Greatest amount of genetic knowledge. With time can attain a similar level of genetic awareness of elite seedstock programs.
- Provides powerful genetic insight for all facets of the operation

Cons

- Most expensive approach. This is still quite varied depending upon the genetic evaluation provider and the relationship with the genotyping lab. These costs will range from moderate to high.
- Largest commitment of time and labor for data collection and reporting.
- Learning curve for reporting software and DNA testing.

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CDI Trustee 387F Retained herd sire Leased to ST Genetics

ASA# 3429754



CDI 304G Homo Polled PB SM CE BW WW YW MCE MM MARB REA





CDI 270G Homo Polled Homo Black PB SM CDI Mainline 265D x CDI Miss Fortified 147C

CE	BW	WW	YW	MCE	MM	MARB	REA
13	0.4	76	118	7	28	0.27	0.87
	- A9	5A#3	6511	27	API 1	45 TI	78



CDI 261G Homo Polled Blk Pending PB SM CE BW WW YW MCE MM MARB REA



CDI 285G Homo Polled Homo Black PB SM CDI Mainline 265D x CDI Miss Fortified 147C

	CE	BW	WW	YW	MCE	MM	MARB	REA
	13	0.4	76	118	7	28	0.27	0.87
_		- AS	5A# 3	6511	51	API	145 TI	78



CE BW WW YW MCE MM MARB REA



CDI 256G Polled Pending PB SM CDI 49er 257D x CDI Miss Prime Time 110E

CE BW WW YW MCE MM MARB REA 16 -0.7 71 103 9 28 0.32 1.18 - ASA# 3651099 API 153 TI 82

But as for you, be strong and do not give up, for your work will be rewarded. - 2 Chronicles 15:7

C DIAMOND SIMMENTALS



CDI Flint 221F ASA# 3429444 2019 2nd High Seller Sold to Berg's Red-Tail Ranch



CDI Legendary 364D ASA# 3152529 Proven heifer bull Sons selling



 CDI 262G
 Homo Polled
 Homo Black
 3/4 SM

 TJ Main Event
 503B x CDI Miss Taylormade
 750

 CE
 BW
 WW YW
 MCE
 MM MARB
 REA

 12
 0.7
 76
 112
 5
 31
 0.34
 0.92

 ASA# 3651106
 API 138
 TI 79



CDI 381G Polled Pending Blk Pending 3/4 SM TJ Main Event 503B x CDI Miss Fortified 72C

	CE	BW	WW	YW	MCE	MM	MARB	REA	1
	14	0.3	79	119		29	0.24	1.06	
L		- A9	5A# 3	6513	332	API	137 TI	79	



CDI 272G Homo Polled 3/4 SM DI Freight Train 230E x CDI Miss Hometown 115C

l	LE	DW	w w	TVV	IVICE	IAUNI	MARD	REA	
ľ	8	1.6	79	118		24	0.31	0.83	
l		- AS	БА# З	6511	29	API 1	32 TI	78	



CDI 252G Homo Polled PB SM CDI Perception 254E x CDI Miss Prime Time 43E

	CE	BW	WW	YW	MCE	MM	MARB	REA	
	13	0.3	77	118	7	28	0.21	0.83	
L		— A9	5A# 3	6510	087	API 1	56 TI	80	



CDI 341G Homo Polled PB SM LCDR/CDI Fierce 81E x CDI Ms Inception 123B CE BW WW YW MCE MM MARB REA

5	3.7	81	121	З	26	0.27	0.99
	— A9	5A# 3	36512	12	API 13	36 TI	80



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uby's Turnpike 771E **By WBF Significant** EPDs: CE: 8 \$API: 126 \$TI: 83



CAJS Blaze of Glory 42B By WLE Uno Mas X549 EPDs: CE: 12 \$API: 117 \$TI: 72



WS A Step Up X27 By SS Ebony's Grandmaster EPDs: CE: 10 \$API: 109 \$TI: 62

Fitz POL Blazon B1203

By PRS Blazin Hot W192

Bv MR HOC Broker

EPDs: CE: 10 \$API: 122 \$TI: 70



Mr. Hoc Broker C623 **By Steel Force** EPDs: CE: 5 \$API: 84 \$TI: 56



SSC Shell Shocked 44B **By Remington Secret Weapon 185** EPDs: CE: 19 \$API: 121 \$TI: 60



CSCX Bandwagon 513A By TJSC Optimus Prime EPDs: CE: 10 \$API: 121 \$TI: 69



OBCC Ships Ahoy D150 By CCR Anchor 9071B EPDs: CE: 14 \$API: 149 \$TI: 76



STF Rock Solid 033C **By CDI Rimrock 325Z** EPDs: CE: 9 \$API: 112 \$TI: 70



W/C Relentless 32C By Yardley Utah Y361 EPDs: CE: 10 \$API: 117 \$TI: 68 FPDs as of 12.6.19



THSF Lover Boy B33 By HTP/SVF Duracell T52 EPDs: CE: 19 \$API: 155 \$TI: 80



W/C Bullseye 3046A By Lock N Load 54U EPDs: CE: 15 \$API: 143 \$TI: 70



PAL/CLAC Meant To Be 823E By Mr HOC Broker EPDs: CE: 11 \$API: 109 \$TI: 63





JBSF Gavel 9D By Mr TR Hammer 308A EPDs: CE: 8 \$API: 109 \$TI: 69



S&S Sweet Dreams 507C

EPDs: CE: 9 \$API: 112 \$TI: 60

By CNS Dream On L186

By Hooks Shear Force EPDs: CE: 12 \$API: 165 \$TI: 86



TJSC 152A "Vindication" **By Flying B Cut Above** EPDs: CE: 4 \$API: 100 \$TI: 58



Circle M Tejas 107Z By BC Lookout 7024 EPDs: CE: 14 \$API: 137 \$TI: 58



SP The Answer 813 By SAV Final Answer 0035 EPDs: CE: 17 \$API: 132 \$TI: 66



CNS Pays To Dream T759 By CNS Dream On L186 EPDs: CE: 12 \$API: 121 \$TI: 68



WS Stepping Stone B44 By W/C Lock Down EPDs: CE: 10 \$API: 125 \$TI: 76



By CCR Cowboy Cut 5048Z EPDs: CE: 17 \$API: 160 \$TI: 93



Silveiras Style 9303 **By Gambles Hot Rod** EPDs: CE: 12 \$API: 114 \$TI: 58





WS Revival B26 **By LLSF Uprising Z925** EPDs: CE: 11 \$API: 113 \$TI: 65



LLSF Addiction AY792 **By Top Grade** EPDs: CE: 7 \$API: 117 \$TI: 70



LLSF Pays To Believe ZU194 By CNS Pays To Dream T759 EPDs: CE: 12 \$API: 121 \$TI: 68



W/C Bankroll 811D By W/C Loaded Up 1119Y EPDs: CE: 15 \$API: 138 \$TI: 70



W/C Cash In 43B By JS Sure Bet 4T EPDs: CE: 12 \$API: 114 \$TI: 59



W/C Rolex 0135E By Yardley Utah Y361 EPDs: CE: 17 \$API: 135 \$TI: 68

ailabl

SimAngus™



CDI Executive Power 280D By W/C Executive Order EPDs: CE: 9 \$API: 132 \$TI: 84



HPF Tradecraft D010 By JF Milestone 999W EPDs: CE: 6 \$API: 110 \$TI: 70



FBF1 Combustible Y34 **Bv Steel Force** EPDs: CE: 13 \$API: 99 \$TI: 59



W/C Grandstand 6B By W/C Wide Track 694Y EPDs: CE: 13 \$API: 125 \$TI: 69



JBSF Logic 5E By W/C Relentless 32C EPDs: CE: 7 \$API: 114 \$TI: 64



Rousey Gold Strike 512C By Hooks Trinity 9T EPDs: CE: 16 \$API: 142 \$TI: 87 EPDs as of 12.6.19



Ford's-WMCC Revolution 60E By CCR Cowboy Cut 5048Z EPDs: CE: 12 \$API: 139 \$TI: 76





Long's Stand Alone B35 **By Built Right** EPDs: CE: 7 \$API: 126 \$TI: 70



WLTR Nashville 22A ET **By High Voltage** EPDs: CE: 12 \$API: 117 \$TI: 70



EPDs: CE: 15 \$API: 162 \$TI: 82

CCR Anchor 9071B

By CCR Cowboy Cut 5048Z

SimAngus™

HPF Rockstar B332 By JF Milestone 999W EPDs: CE: 8 \$API: 123 \$TI: 74



By W/C Executive Order 8543B EPDs: CE: 11 \$API: 113 \$TI: 73



LHT Viper 65E By W/C Loaded Up 1119Y EPDs: CE: 16 \$API: 136 \$TI: 67



Perfect Vision 26D By MR CCF Vision EPDs: CE: 14 \$API: 115 \$TI: 71



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What Do Google, Amazon, Facebook, and IGS All Have in Common?

Data is their lifeblood!

International Genetic Solutions (IGS) partner organizations, representing 18.9 million beef cattle, gathered in Bozeman on October 22-24, 2019, for a meeting of the minds. Thirty guests including executive vice presidents, breed improvement staff and consultants, and the IGS Science Team, participated in meetings filled with bigpicture discussions of the power of the IGS collaborative, ideas on how to continue to improve data collection and integration into the genetic evaluation, new ways to benefit from economies of scale within this group, and technical updates on the genetic evaluation. Ample time for brainstorming during the meetings led to tangible action items for future developments.

Topics included:

- The "why" behind IGS by Dr. Wade Shafer
- Advice to IGS and its partners for continued success by Dr. Matt Spangler
- Updates to the Genetic Evaluation since the first Launch of IGS Multi-breed Genetic Evaluation powered by BOLT by Dr. Lauren Hyde
- New improvements and developments in genomics by Dr. Mahdi Saatchi
- Updates to growth trait predictions by Dr. Bruce Golden
- New bull lookup features by Ryan Boldt
- Educational awareness efforts for foot/leg assessment by Ryan Boldt

Wade Shafer gave a compelling presentation starting with a video of Simon Sinek's TED talk entitled, "How Great Leaders Inspire Action". Sinek is the author of the book *Start with Why* about how successful companies build their business by starting with the "why" behind what they do instead of the "what". Sinek talks about By Jackie Atkins, Ph.D., Director of Science and Education

> "the Golden Circle" with "why" as the bullseye, followed by "how" and the "what" is the outermost circle.



Successful leaders and companies start in the center of the circle with "why", then "how", and finally "what".

Shafer extrapolated the golden circle principle for IGS.

- The "why" = Better serve the beef industry by more effectively leveraging our resource for genetic improvement.
- **The "how" =** Leveraging data and technology through massive and unprecedented collaboration.
- **The "what" =** The largest and most powerful beef cattle genetic evaluation in the world.

Shafer talked about an article in the May, 6, 2017, issue of The Economist about data being the world's most valuable resource. Google, Amazon, Apple, Facebook, and Microsoft all have something in common with IGS. Data is our lifeblood. The IGS collaboration now has 18.9 million animals and over 230,000 genotypes from 17 different organizations. Not only is it the largest beef cattle database, but it also has a large amount of connectivity among the different organizations. Shafer shared a table of sires (see table) with progeny from more than one data source. IGS has more than 30,000 sires represented in at least two different databases and nearly 6 million progeny records from these sires. Three of these sires show up in 12 databases. This perfectly illustrates the power in pooling this information into one genetic evaluation and gaining the benefit of all that information instead of each association only using their own records.

Number of data sources	Number of sires	Number of progeny
12	3	13,904
11	23	58,439
10	40	46,674
9	86	62,408
2-8	33,691	5,698,851

Over a third of the records in the IGS Multi-breed Genetic Evaluation have data coming from more than one source. The power of having these animals analyzed in one central evaluation is a tremendous benefit to the members of the IGS organizations and their commercial customers.



Another way to illustrate the value of collaboration can be seen in this graphic. The total data in the IGS genetic evaluation is vastly more than any single association contributes. By pooling all the information into one genetic evaluation, all associations gain better genetic predictions than any could do alone. The IGS advisory meeting further developed the synergy of sharing and learning from our partners in beef cattle genetic improvement. Talks from the science team, brainstorming among the partners, and bonding over meals proved a valuable and productive time for all. We are excited about what the future holds for this group. **S1**



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CE	BW	ww	YW	ADG	MCE	MILK	MWW	STAY
17.0	0.9	92.3	138.0	0.29	11.5	31.3	77.5	17.5
2%	30%	1%	1%	4%	1%	2%	1%	50%
DOC	CW	YG	MARB	BF	REA	SHR	API	TI
17.0	56.7	-0.41	0.28	-0.083	1.25	-0.41	160.4	93.4
2%	1%		10%		1%	15%	1%	1%

EPDs as of December 10, 2019





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By Dividend, 30+ Brothers Sell!

Bankroll x OCC Legend 616L, ET

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Angus sires include HA Cowboy Up 5405, Quaker Hill Rampage 0A36, Musgrave Aviator and Bruns Top Cut 373.





Proclamation x Loaded Up Top 10% CE, MCE, MWW, REA and API



Proclamation x Connealy Capitalist Great genetics, Top 10% DOC, API & TI





Mountain Pass x Masterlink Top 2% WW, YW & TI. Top 10% API



Proclamation x Lock N Load Top 10% CE, MCE, MWW, REA, API and TI



Gold Strike x Cowboy Cut Top 1% WW, YW & TI, Top 10% REA & API



Bankroll x OCC Legend 616L from heralded Windsong donor – top 15% CE



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W/C Holy Smoke x W/C Loaded Up Maternal sister to WC172G, a featured bull



CCR Masterlink x 9K Gold Key Bred to Bridle Bit Rembrandt D630



BRED HEIFERS

Quaker Hill Rampage x SAV Bruiser Bred to CLRS Dividend 405D



CDI Executive Power x DUFF Copyright Bred to Bridle Bit Rembrandt D630



W/C Holy Smoke x Up North (Upgrade) Bred to Bridle Bit Rembrandt D630



CCR Flint Hills x W/C Loaded Up Bred to Bridle Bit Rembrandt D630

"We have bought several bulls from you in the last years, mostly over Superior, and they have been outstanding. Your bulls have lots of thickness and excellent carcass traits that we demand in our Angus based program. Calves could not be better!" - Glenn Cantrell, Long Grove, OK

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TJ MS 38W • ASA#: 2529932 Proven outcross donor that has raised many high-sellers for the Triangle J Ranch, NE. We are offering four sons and the pick of her heifer calves sired by CDI Authority 77X.



55 Bulls 45 Females

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BCLR ALAMO F552-3 • ASA#: 3480640 High-selling bull of our 2019 sale. Sold to Kenner Simmentals, ND.



BCLR ARTILLERY E21-3 • ASA#: 3322964 High-selling black bull of our 2018 sale. Owned with Tom Brothers, TX.



BCLR CASH FLOW C820 • ASA#: 3071303 High-selling bull in our 2016 sale and a recent addition to the Genex line-up.



BCLR HEARTLAND E130 • ASA#: 3322925 High-selling red bull in our 2018 sale. Sold to Crosshairs Ranch, ND.



BCLR AMBITION E301 • ASA#: 3322973 Purchased in 2018 by Wheatland Cattle, CA.



BCLR MISS AMBITION E731 • ASA#: 3322935 High-selling red heifer in 2019. Sold to Doll Farms, ND.



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American Simmental Association Commercial Programs



by Lane Geiss, Director of Commercial and Nontraditional Data Programs

The commercial programs offered by the American Simmental Association (ASA) are an effort to provide genetic tools to the largest sector of the beef industry— the cattle operations. These efforts are supported through multiple ASA programs and the world's most comprehensive beef genetic database. The three pillars to ASA Commercial Programs are the: **Total Herd Enrollment — Commercial option (THE-CM), Cow Herd DNA Roundup (CHR), and the IGS Feeder Profit Calculator™ (FPC).** These programs allow commercial producers to maximize the genetic awareness surrounding their program and to make better management and selection decisions.

Each of these programs are designed to offer assistance at three key management moments in commercial operations; **Breeding**, **Heifer Selection**, **and Weaning**. This article will briefly dive into how each program functions.

Total Herd Enrollment — Commercial

The THE-CM is the foundation to these programs and allows participants to fully capitalize on the true genetic awareness of their cow herd. This is a whole-herd reporting program that helps isolate the known genetic potential of every female owned. The industry's best metric for understanding genetic merit on individual animals is through an expected progeny difference (EPD). Simply put, an EPD describes the difference in production value for a given trait compared to other cattle. These are all calculated through pedigree relationships and performance records — and genomics if desired. Selection indexes take that one step further by combining multiple economically relevant EPDs along with industry costs and thresholds into a prediction model. Seedstock breeders undoubtedly use EPDs and selection indexes to make mating decisions. Why shouldn't commercial producers have the same technology?

Follow this link to learn more about THE-CM: **www.simmental.org/commercial**

Cow Herd DNA Roundup

The CHR is an opportunity to push the accelerator on female genetic awareness. Every cattleman knows which cow is his best producer, but do they know right away which replacement heifer will fill that role? The field of genomics allows us to gain a better understanding of a young heifer's genetic potential even before she starts producing. This technology uses known regions on the bovine genome that impact specific economically relevant traits. For example, longevity in cattle is known once they've been in production for almost a generation, but producers would hope to know that information before they invested time and money in replacements. Through genomics, we can use known genetic markers to give an indication of whether a female may last in the herd longer (or shorter) than others. The CHR will provide years of information before you have to invest years of time.

Follow this link to learn more about CHR: **www.simmental.org/chr**

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While the other two programs are focused around the cow herd, the FPC is centered around where commercial producers make ends meet. They've invested a lot of time and money into not only their cow herd, but also their bull battery because they know the role genetics play in the end product. They've also invested in their management protocols to ensure the feeder calves they raise will stay healthy and perform in the feedlot. These investments help producers stay profitable and build a more valuable feeder calf, but are their buyers aware of their commitment? The FPC is a third-party view of the profit potential on a calf crop through the understanding of genetics, health, and management. Buyers want low-risk, high-potential calves with earning potential. Producers want to highlight that their calves fit potential buyer's needs. As opposed to traditional marketing slogans and empty statements let's provide true awareness. We can Know or Guess. Choose Know.

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KBHR High Road - GENEX

KBHR Wentz - GENEX





 CE
 BW
 WW
 YW
 MARB
 RE
 SAPI
 STI

 13.5
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 159.8
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HOOK'S DELEGATE 64D x HOOKS SHEAR FORCE 38K

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ASA# 3403326 TJ DIPLOMAT 294D x HOOK`S BROADWAY 11B HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN Due 3/28/20 to EGL Fireman 111F.



ASA# 3563678 HOOK`S EAGLE 6E x HOOK`S BOUNTY 6B HOMO BLACK HOMO POLLED PB SM Sells open.

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EPDs as of 12.6.19



TKCC Classified 106C

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 6 2.4 79 119.25 2 19 59 124 75

ASA# 3028710

One of the most exciting sires with a new pedigree twist! He commanded \$70,000 at the legendary Hudson Pines dispersal. His first progeny are creating nation-wide buzz!



Daughter at Lee Simmentals, MO



CLRS Dividend 405D

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 10 .4 80 122 .26 4 18 58 142 82

ASA# 3097854

High-seller at \$52,000 for Clear Springs/Hook to APEX. Combines top % rank in every trait with great looks.



Dam: CLRS Bonnia 405B



W/C Relentless 32C

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI <u>10 3.7 67 83 .10 4 19 52 117 68</u>

ASA# 3045559 Sires more champions and high-sellers than any other sire!



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W/C Night Watch 84E

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 19-2.7 70 91 .13 10 25 60 163 81

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Miss Werning 8543U



FBF1 Absolute A103

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EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 13 2 80 112.20 6 18 58 126 77

ASA# 2649657 A multiple-time **Champion producing** great progeny with his first crop!



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One Eyed Jack's first progeny are looking extra special across the country!



STCC Jack Around 4031 EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 2 62 88 .16 -1.6 17 48 112 66



STCC Jacked Up 4070 EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 6 2.6 65 95 .19 -.5 17 50 105 66

The exciting brothers by One Eyed Jack x HF Serena have the whole country talking!



GEFF County O 736E

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 10 .7 63 96 .20 6 24 55 123 63 ASA# 3289219

Loaded Up x Montecito x Ruby Rhythm donor

Bob May told Griswold that he had as good a Simmental as he's ever seen in the fall of 2017, 2019. Embryos on Snow feature sale lot!



Mr. Hoc Broker X623

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 5 4 70 96 .16 2 12 47 84 56

ASA# 2531081

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SFG The Judge D633

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 11 1.5 93 137 .28 7 22 68 152 90 ASA# 3208952

Cowboy Cut x 3/4 Top Grade tracing back to BC Lookout's full sister. Elite phenotype combined with breed leading data!



W/C Bankroll 811D

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 15 .3 67 90 .14 8 23 57 138 70

ASA# 3187005 • Bankroll progeny are topping sales across North America!



WS Jackson D20

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 6 2.2 79 121 .26 1 24 63 133 79 ASA# 3208343 • Walsh's 2017 high-seller. A PB Stepping Stone x Built Right red charlie free!



JBS Logic 5E

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 7 3.5 64 85 .14 3 16 48 113 64

ASA# 3337441 **HOT Relentless son and** full sib to the Grand and **Reserve Champion Females** at 2019 AJSA National Classic.



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GPG Focus 135F

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 9 2.3 65 96 .19 7 26 58 118 69

ASA# 3485396

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CDI Innovator 325D

EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 14 .3 95 148 .33 7 26 73 153 93 ASA# 3152448 • TJ Main Event 503B x CDI Miss Shear Force 49U • A CDI top seller to JS Simmental and Wayward Hill Farm. • 2018 NWSS Champion % Bull!





LAH Sixteen Step 628D EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI 12.6.19

EPDs as of

7 1.9 72 100 .17 3 14 50 120 71 ASA# 3123088 • An exciting son of deceased Two Step out of WLE Missy U409, the full sister to WLE Uno Mas. Sixteen Step was the Purebred Winter Calf Champion at the 2017 NWSS!





Mr CCF 20-20 100B EPDs: CE BW WW YW ADG MCE Milk MWW \$API \$TI

14 1.1 76 117 .25 6 20 58 127 75

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Birth Weight Update for the Approaching Calving Season

Research study finds hoof tape correlates highly to scale weights but exhibits less variation.

By Jackie Atkins, Ph.D., Director of Science and Education

There has long been a stigma against using hoof circumference for estimating birth weight; however, there are pragmatic reasons why hoof tape is a sound alternative. Collecting scale weights at birth can be difficult for breeders due to labor constraints. It is known that some breeders are using hoof tape to estimate birth weight. Recently, IGS and consulting scientists, Drs. Bruce Golden and Matt Spangler, delved into a number of potential improvements to the genetic evaluation of growth traits including how to handle hoof tape records as a measure of birth weight in genetic evaluation.

Dr. Golden started looking at large numbers of records from herds known to use hoof tape or known to use scale weights. Golden used over 7,000 hoof tape records and 15,000 scale weight records and found hoof tape and scale weights have a high genetic correlation (0.92). As expected, hoof tape estimates for birth weight had less variation in the records resulting in hoof tape measurements with fewer extremely light or heavy birth weight estimates compared to scale weights (see graph).

What does this mean for seedstock breeders? Scale weights remain a gold standard for birth weight measurements. However, hoof tape measurements look like a very reasonable alternative. The Beef Improvement Federation recently came out with the following statement. "BIF recommends that organizations responsible for recording performance data require breeders who use a hoof tape to record birth weight to indicate that they have done so."

Remember, with both measurements, the economicallyrelevant trait is Calving Ease. The genetic correlation between hoof tape measurements and calving ease is not yet known but given the high correlation to scale weights, it is likely to be similar to the correlation between birth weight and calving ease.



As a reminder, for ALL phenotypic records, if animal measurements are missed for any reason, it is far better to leave the records blank than to fill in the blanks with guesses. Inaccurate records introduce noise to the genetic prediction that reduces the ability to assess the genetic merit of these and related animals.

Stay tuned for more updates on other improvements in the growth traits predictions in the IGS Multi-breed Genetic Evaluation.

"The key for success is for the same person to do the measuring with the same tension on the tape every time. When it is cold, it is important to make sure the feet are not swollen when you measure them. Consistency is the key,"

says Jim Butcher, Lewiston, MT, Gateway Simmentals and long-time user of hoof tapes.

Tips when using a hoof tape:

- 1. Measurements should be collected within 24 hours of birth.
- 2. Place the tape around the coronary band (where the hoof meets the hide) of a front hoof, tighten, and read the measurement.
- 3. There are two sides to the tape. One for bull calves and one for heifers.
- 4. Use the same method for ALL calves in a management group. Avoid collecting some weights with a scale and some with a hoof tape.
- 5. When turning in birth records to your association, if possible indicate if measurements are from a scale or hoof tape. <u>SI</u>





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CDI Entourage 156U HHS MR Entourage 867B HHS Miss 836Z

MCM Top Grade 018X HHS Miss Lucky AVA 847A HHS Miss 870U

No. of Concession, Name	Trait	CE	BW	ww	YW	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	API	TI
ALC: NO	EPD	13.0	1.7	82.6	126.7	7.5	29.5	70.8	22.7	17.6	39.2	-0.37	0.44	-0.089	-0.40	170	90
5	ACC	0.41	0.49	0.47	0.47	0.23	0.40	0.42	0.26	0.15	0.46	0.36	0.38	0.35	0.45		
2	%	15		5	4	15	4	1	1	1	10		1			1	1

• This bull is for sale Private Treaty • Purebred with calving ease with muscle • Great foot and leg structure Semen is available, he would be a good fit on Simmental, Angus or commercial cows • Keller Broken Heart Ranch purchased his full brother in 2018.



HHS Entourage 841F

CDI Entourage 156U HHS MR Entourage 867B HHS Miss 836Z

MCM Top Grade 018X **HHS Miss Allie 841A** HHS Miss 870U

Trait	CE	BW	ww	YW	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	API	TI
EPDs	17.6	-1.0	65.7	101.2	10.7	31.7	64.5	21.6	14.7	22.0	-0.35	0.51	-0.083	0.62	175	85
ACC	.41	.47	.45	.46	.46	.22	.40	.41	.25	.15	.44	.34	.36	.34	.41	.05
%	1	10			1	2	10	3	10			1			1	2

 This bull is for sale Private Treaty
 Calving ease and low birth weight Purebred baldy with great EPD profile
 Outcross with amazing good looks Moderate frame
 Semen is available



HHS Powerhouse 801C



HC Hummer 12M Dam: HHS Miss 829Z HHS Miss 833R

Trait	CE	BW	ww	YW	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	API	TI
EPD	14.4	1.7	78.1	117.3	9.6	20.0	59.0	14.2	11.4	38.8	-0.07	0.83	-0.022	0.43	161	90
ACC	0.54	0.65	0.60	0.59	0.32	0.48	0.49	0.30	0.46	0.53	0.41	0.47	0.39	0.51		
%	20		10	15	10		25			20		1			2	1

 These measurable traits speak for themselves
 Adj. BW: 77 lbs.
 BW Ratio: 105 • Adj. WW: 869 lbs. • WW Ratio: 120 • Adj. YW: 1,435 lbs. • YW Ratio: 111 • Adj. IMF: 4.58 • IMF Ratio: 145 • Adj. REA: 16.05 • REA Ratio: 99 Bull is deceased, limited amount of semen available

305113 lomozygous Blac Homozygous Polled

> 801C Son - High-selling bull at 2019 Illinois Beef Expo

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Bruce Rickertsen, NE - "Makes catching, transporting and tagging calves much easier and safer."

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Putting the Best Foot Forward ASA Launches Feet and Leg Scoring Recommendations

By Lane Giess, Director Commercial & Nontraditional Data Programs

There has been a significant amount of buzz in the industry lately when it comes to structural soundness in genetic evaluation. With workshops educating breeders across the country, multiple presentations happening at national conferences, and articles in countless publications, feet and leg structural evaluation obviously matters to beef producers seedstock and commercial alike.

The ASA science team has been hard at work developing further understanding of the genetic control of feet and leg structure in beef cattle and encourages members to start thinking about structural evaluation in their own herds.

While not new to dairymen, feet and leg structure evaluation is in its relative infancy for the beef industry. Through a research project at Kansas State University funded by the American Simmental Association, Red Angus Association of America, and the Kansas Global Food Systems Initiative, multiple traits related to feet and leg structure were evaluated and tested in the most comprehensive research project of its kind in beef cattle. Approximately 4,000 animals from both the Red Angus and Simmental breed populations were scored for 14 traits relating to structure.

Dr. Bob Weaber, professor and extension beef cattle specialist at Kansas State University led the project.

"The objectives were to understand the genetic relationships among hoof, leg, and limb angulation attributes — especially any differences between the front and rear limbs. We also wanted to test the granularity of the scoring system to determine information loss using a simple categorical system," Weaber commented.

The study provided insight for ASA and IGS breed partners to develop educational material and recommendations for breeders to start evaluating their own herds.

Three traits were identified to be issues in the breed population worth exploring further: 1) Claw set and divergence; 2) Hoof angle and heel; 3) Hock angle or rear leg side view.

Curvature or divergence in claw set disrupts the surface area on the base of the hoof. This often appears as a scissor or corkscrew claw, where the most severe cases result in one claw growing outward and crossing over the other claw. Cattle often experience shortness of stride and apparent painful movement with this phenotype.

Hoof angle and/or heel depth issues can lead to shallowheeled cattle, which can cause toes to grow out and lengthen. Inversely, too much depth of heel results in a rigid hoof and pastern angle, limiting an animal's flexibility of motion.

Though the previously mentioned traits affect hoof conformation, structure issues also manifest themselves in the limbs of cattle, notably the hock and rear leg set. Cattle with extreme straightness are limited in their mobility as are animals that experience over-flexion of the hock joint.

Feet and Leg Recommendations

Developing a set of educational guidelines for feet and leg structure for ASA members to better select and evaluate their own animals has been a high priority for the ASA science team. While much of the research regarding the use of feet and leg data in genetic evaluation, as well as structure's impact on economically-relevant traits is still ongoing, membership can contribute to this research by voluntarily sending any data they collect on three traits: Claw Set, Hoof Angle, and Rear Leg Side View (See Figures. 1–3).





Figure 2: Hoof Angle



Figure 3: Rear Leg Side View



Weaber stressed the importance of breeders familiarizing themselves with feet and leg structural evaluation. "Seedstock cattle will continue to be evaluated for a wide range of economically important traits for the foreseeable future. Commercial cattle producers making sizeable investments in genetics are elevating their expectations relative to foot and leg conformation and durability. As such, seedstock producers seeking repeat customers for high-value bulls should strive to breed cattle with foot and leg longevity in mind," Weaber emphasized.

Scoring Rubric

- Score the three traits (Claw Set, Hoof Angle, and Rear Leg Side View) on a 1 to 9 scale using the included rubrics (See Scoring Rubric).
- If there is variation in the conformation of hoof traits between the front and rear/left or right, score the worst hoof.
- The best time to evaluate cattle to capture whole contemporary group information is between 12 to 18 months of age.
- Scores may be evaluated annually on mature cows (taken in conjunction with mature weights and body condition scores).
- Score all animals prior to any hoof trimming.
- Score animals on a level and hard surface, devoid of mud or grass to ensure an accurate appraisal.
- Score all animals on the same day, by the same evaluator.



These scores provide utility for two reasons; 1) they allow breeders to objectively rank and identify problem animals in their herd on an annual basis 2) they may prove useful in a national genetic evaluation.

"It could be reasoned soundness is already reflected in the currently published Stayability EPD, but it's useful for ASA members to be aware that these guidelines are a tool at their disposal to identify problem animals in their population," says ASA Executive Vice President Wade Shafer, Ph.D. "It's ideal to have educational material that encourages breeders to objectively look at feet and legs and make culling decisions, all the while contributing to the larger research effort at hand".

For any questions regarding the feet and leg trait complex and how to submit any data recorded, please contact Lane Giess at lgiess@simmgene.com ST



46TH ANNUAL BULL SALE

SIMMENTAL || SIMANGUS™ || ANGUS BULLS

SELLING 60 BULLS SATURDAY, JANUARY 25, 2020 @ NOON

COMPLETE INFORMATION, PICTURES + VIDEOS AVAILABLE ONLINE AT WWW.DOUBLEJSIMMENTALS.COM



PB • WW 892 • API 149 • TI 88 BLACK HAWK X UNO MAS HERD SIRE! Umatched CE, Growth, & EPDs.



PB • WW 694 • API 142 • TI 80 RIMROCK X SHEAR FORCE (ET) Outstanding non-diluter red bulls sell.



1/2 • WW 667 • API 125 • TI 72 CLASSIFIED X LONG DISTANCE White-faced bull, 21 percentage bulls sell.



PB • WW 694 • API 121 • TI 68 BOISE X GOLDMINE (ET) Large sire groups sell & 4 ET brothers.

PICTURES + EPDs AS OF DEC. 4, 2019

COLTON BUUS, ASA FIELD REP	605.214.3532
ZACH LUTZ	
BOB JULSON	605.351.2654
TED SOUVIGNIER	605.660.3962
JARED SUTTON	605.864.8527
OUR PERSPECTIVE	



3/4 • WW 687 • API 132 • TI 77 TRUE JUSTICE X MAKERS MARK Outcross genetics with WW, YW, & Milk.



PB • WW 732 • API 144 • TI 86 INNOVATOR X UNO MAS Curve bending genetics!



PB • WW 667 • API 138 • TI 74 BIG TIMBER X UNLIMITED New outcross maternal genetics.



3/4 • WW 698 • API 129 • TI 70 BOISE X PREMIUM BEEF Many calving ease bulls that add pounds.



PB • WW 777 • API 115 • TI 76 TURNPIKE X UPRISING Top 2% for WW & YW, 114 WW Ratio.



3/4 • WW 746 • API 138 • TI 79 CASH FLOW X CHAMBERLIAN Growth with a REA in Top 1%.



PB • WW 753 • API 129 • TI 75 BOISE X UPGRADE Maternal with growth – 110 WW Ratio.



PB • WW 712 • API 143 • TI 81 CASH FLOW X COWBOY CUT WW, YW, TI top 4%.



PB • WW 700 • API 129 • TI 83 TURNPIKE X CASH FLOW (ET) High performance with WW, YW, & REA Top 1%



PB • WW 827 • API 119 • TI 75 TURNPIKE X DREAM ON (ET) Constant donor with high growth & power.

KIPP JULSON 48672 252nd Street – Garretson, SD 57030 KIPP'S CELL: 605.351.9088 SALE DAY LANDLINE: 605.594.2310 E: doublejfarms@alliancom.net || www.doublejsimmentals.com

SIRES INCLUDE

CASH FLOW • BOISE • TURN PIKE • COWBOY CUT BLACK HAWK • INNOVATOR • CLASSIFIED • RIMROCK • TRUE JUSTICE

All bulls coat color and polled tested. Bulls will be wintered and semen tested guaranteed with delivery available.

46TH ANNUAL BULL SALE SIMMENTAL || SIMANGUS[™] || ANGUS BULLS

SATURDAY, JANUARY 25, 2020 @ NOON

TAG	COLOR	%	PEDIGREE	DAM	DOB	ACT BW	ADJ WW	CE	BW	ww	YW	MCE	мм	MWW	API	ті
901	BLK	РВ	BLACK HAWK X UNO MAS	64E	1/24	82	892	16	-1	86	124	9	20	63	149	88
902	BLK	1/2	BOULDER X BISMARCK	119E	2/6	80	680	15	-1	64	100	9	27	59	149	77
908	BLK	5/8	NIGHTRIDE X BOISE	E763	2/13	68	656	15	-1	68	101	8	23	57	148	80
914	BLK	3/4	TRUE JUSTICE X MAKERS MARK	D620	2/15	97	687	11	2	79	121	8	27	66	132	77
920	BLK	3/4	BOISE X PREMIUM BEEF	B401	2/16	82	698	15	-1	67	98	10	26	59	129	70
922	RED	PB	ALL ABOARD X RANCH HAND	X010	2/17	71	620	17	-3	63	90	11	27	58	150	77
928	BLK	3/4	BLACK HAWK X CLASSIFIED	E789	2/19	74	714	12	-2	76	114	5	24	62	134	77
929	BLK	5/8	INNOVATOR X BRILLLIANCE SON	B4133	2/19	86	692	13	-1	76	116	6	29	67	140	80
931	BLK	PB	BOISE X UPGRADE	A3106	2/19	102	753	11	2	75	107	6	28	66	129	75
932	BLK	5/8	BLACK HAWK X BRILLIANCE	E715	2/19	79	640	16	-1	75	114	9	24	61	144	79
933	BLK	PB	BOISE X TANKER	A348	2/20	93	723	11	1	73	106	9	32	69	127	71
942 943	BLK	3/4 PB	BLACK HAWK X BROADWAY	E794 D632	2/20	87 83	704 675	11 13	0	80 73	125 105	8	23 29	63 65	133 149	77 78
945	BLK	3/4	COWBOY CUT X UNLIMITED	Y105	2/20	98	693	12	2	79	114	8	23	62	149	78
1.57.151.751	100000	5/8	COWBOY CUT X IN FOCUS	100,000,000	2010/02/0	76	664	12	-3	61	93	100	23	100000	1210077	80
950	BLK	Contraction of the	NIGHTRIDE X COWBOY CUT	E781	2/21 2/21		10 Million Public	5000	a sector		Contraction of the local sectors of the local secto	10	100000	52 59	160	10072
951 955	BLK	3/4 PB	TRUE JUSTICE X DAUL FOCUS	Y107	2/21	87 85	616 694	13 14	0 -1	66 71	100 98	8	26 22	59	132	71 80
955	BLK	3/4	RIMROCK X SHEAR FORCE (ET) COWBOY CUT X ROBUST	A332 D698	2/21	85	704	14	-1	71	2012/0	8	22	58 66	142 158	80
958	BLK	3/4 PB	BOISE X DREAM ON	Z286	2/22	80 95	620	15	-1	64	114 86	9	27	57	158	88 68
962	BLK	PB	BOISE X DREAM ON	D6116	2/22	85	739	12	1	75	109	9	25	65	131	73
963	BLK	PB		101D	2/22	87	739	12	0	81	109	6	25	66	144	86
966	BLK	PB	INNOVATOR X UNO MAS BIG TIMBER X BERETTA	D6134	2/22	88	727	13	-1	71	101	8	26	61	144	77
967	BLK	3/4	NIGHTRIDE X COWBOY CUT	E756	2/23	90	701	12	1	73	107	6	20	56	144	80
970	BLK	3/4	10000000000000000000000000000000000000	B413	2/23	90	683	12	1	78	113	1000	20	50	133	76
970	RED	PB	BOISE X RANGE BOSS RIMROCK X SHEAR FORCE (ET)	A332	2/23	90	699	12	-1	78	95	8	20	59	133	70
974	BLK	PB	TURNPIKE X UPRISING	DY37	2/23	98	777	8	4	87	132	5	18	62	142	76
974	BLK	PB	CASH FLOW X COWBOY CUT	D137	2/23	103	712	9	4	86	132	4	18	61	143	81
976	BLK	PB	BLACK HAWK X COWBOY CUT	E748	2/23	85	755	15	0	84	120	9	24	66	143	84
980	BLK	PB		D645	2/24	75	687	15	-2	74	124	9	24	57	152	64 78
981	BWS	1/2	CASH FLOW X UNLIMITED CLASSIFIED X LONG DISTANCE	C5131	2/24	86	667	12	-2	65	100	4	23	57	125	72
986	BLK	PB		D638	2/24	93	667	11	1	68	100	7	23	61	125	74
987	BLK	PB	BIG TIMBER X UNLIMITED	A393	2/25	93	759	11	2	82	124	5	18	59	135	77
988	BLK	3/4	CASH FLOW X BLK DIAMOND BOULDER X SANTA FE	E735	2/25	71	688	14	-2	69	104	8	23	59	135	76
989	BLK	3/4	CASH FLOW X CHAMBERLIAN	A3114	2/25	104	746	9	3	83	119	3	19	60	138	79
990	BLK	PB	BOISE X DEW IT RIGHT	C583	2/25	104	750	8	3	79	112	4	26	66	122	72
991	BLK	AN	FORTRESS X FRONTMAN	624	2/25	94	697	9	-0.4	62	108	13	25	55	122	12
992	BLK	PB	TRUE JUSTICE X GOLDMINE	A370	2/25	90	723	8	2	74	105	4	28	64	129	75
994	BWF	PB	BIG TIMBER X GAME PLAN	D6131	2/26	82	620	12	0	66	99	8	25	58	138	73
995	BLK	PB	CASH FLOW X CHAMBERLIAN	Z285	2/27	98	645	10	2	75	108	3	17	55	135	75
998	BLK	3/4	BLACK HAWK X NIGHT RIDE	E7106	2/27	64	680	19	-5	67	103	11	23	56	166	85
9100	BLK	PB	BOISE X TANKER	A3118	3/1	102	671	9	3	74	103	7	27	65	120	68
9102	BLK	PB	CASH FLOW X FORTIFIED	D6135	3/1	88	768	13	1	84	127	7	20	62	143	82
9104	BLK	PB	BLACK HAWK X TANKER D488	E770	3/1	76	619	15	-1	73	108	9	21	57	144	77
9107	BLK	PB	CASH FLOW X COWBOY CUT	C5127	3/4	104	783	10	4	92	137	5	17	63	142	84
9108	BLK	3/4	CASH FLOW X BRILLIANCE	D699	3/4	75	673	15	-1	76	116	7	21	59	134	77
9109	RED	PB	ALL ABOARD X REDESTINED	B440	3/5	82	710	14	-2	75	107	8	24	61	158	86
9119	BLK	3/4	BOULDER X INTEGRATE	E799	3/12	91	683	12	1	78	122	8	21	59	134	77
9120	BLK	PB	COWBOY CUT X OPTIMUS PRIME	B039	3/12	80	624	15	0	69	95	8	23	58	144	76
9123	BLK	3/4	CLASSIFIED X EFFICIENT	Z213	3/14	86	722	11	1	76	115	5	23	60	123	75
9127	BLK	PB	BLACK HAWK X INTEGRATE	E780	3/15	77	707	16	-1	80	123	9	21	61	144	81
9151	BLK	PB	BOISE X GOLDMINE (ET)	U828	2/24	92	657	13	1	68	90	8	25	59	121	68
9152	BLK	PB	BOISE X GOLDMINE (ET)	U828	2/25	98	572	13	1	68	90	8	25	59	121	68
9154	BLK	PB	TURNPIKE X CASH FLOW (ET)	E774	2/27	95	700	7	4	92	140	3	17	63	129	83
9156	BLK	PB	BOISE X GOLDMINE (ET)	U828	2/27	93	764	13	1	68	90	8	25	59	129	68
9158	BLK	PB	BOISE X GOLDMINE (ET)	U828	2/27	88	694	13	1	68	90	8	25	59	121	68
9158	RED	PB	LAW MAKER X ALL AROUND	D49	3/1	80	873	10	2	77	120	4	25	66	133	76
9160	BLK	PB	TURNPIKE X CASH FLOW (ET)	E774	3/1	103	764	7	1	92	120	3	17	63	129	83
9162	BLK	PB	TURNPIKE X DREAM ON (ET)	T739	3/5	103	827	10	4	84	127	5	24	66	119	75
5100	DLK	F D	TORITINE A DREAM ON (ET)	1735	3/5	101	027	10		04	127	3	24	00	119	75

EPDs AS OF DEC. 4, 2019

2J

MEET THE TEAM

Culbertson Joins ASA and IGS Science Team, Hyde Steps into Retirement



Randie Culbertson, Ph.D.

Dr. Miranda "Randie" Culbertson recently accepted the position as Lead Geneticist for International Genetic Solutions (IGS) taking over the responsibilities of Dr. Lauren Hyde who stepped into retirement at the end of 2019. Culberston graduated from Colorado State University (CSU) with

an M.S. and Ph.D. in Animal Breeding and Genetics.

ASA's CEO, Dr. Wade Shafer comments on the transition from Hyde to Culberston, "I can't thank Dr. Lauren Hyde enough for her many years of service to ASA and the beef industry. She has been a critical factor in the dramatic advancements in genetic evaluation at IGS and ASA. She was wonderful to work with and always kept us entertained. Though we will

SCHMIG SIMMENTAL RANCH 37th Annual Production Sale Thursday, March 12, 2020 – 1PM at the Ranch Lunch served at 11:30 Selling 30 Polled Purebred Simmental Yearling Bulls (Blacks and Reds)

- High-performance and calving ease bulls
- We can keep bulls free-of-charge until May 1
- Free delivery up to 250 miles

Reference Sires:

BBS True Justice SSR Black Gold CCR Cowboy Cut SSR Upgrade 23C



A special THANK YOU to everyone who purchased cattle from us this past year.

Dennis and Joanne Schmig 15559 473rd Avenue • Stockholm, SD 57264 dschmig@itctel.com 605.676.2320 (home) • 605.880.1893 (cell) www.schmigsimmentalranch.com miss her, we are happy for her and support her decision to retire. We feel fortunate to have found Dr. Miranda "Randie" Culbertson to fill Lauren's many roles. Randie compiled an impressive body of work while at Colorado State and comes highly recommended. Randie also has a solid, practical background — hailing from a large commercial operation in New Mexico. Randie will undoubtedly be a great asset for team ASA/IGS."

Originally from New Mexico, Culbertson spent her childhood on the family's cattle ranch located in Northern New Mexico. She later attended New Mexico State University where she earned a B.S. in Animal Science. Following graduation, she moved to Colorado and became self-employed in the equine industry as a show jumping trainer and instructor. From 2001 until entering graduate school, she owned, operated, and managed her own business. With a desire to return to her roots in the beef industry, she applied to CSU's graduate program to pursue research in the field of beef cattle breeding and genetics.

While pursuing her graduate degrees, Culbertson's research interests focused on addressing questions facing the beef industry. Her master's research project examined the effect of the genetic potential for beef cattle milk production and the ability to remain in production with improved longevity (or stayability). In conjunction with her research, Culbertson was placed in charge of coordinating test schedules and data collection for CSU's Feed Intake Unit. It was this work that led to her interest in feed intake as a trait and its application to the beef industry. As a result, her doctoral research focused on feed intake in beef cattle and specifically the implementation for genetic improvement.

In addition to her graduate work, Culbertson conducted several genetic evaluations for new and novel traits for breed associations and cattle producers. Some of the traits she worked on included heifer pregnancy, stayability, and a multi-trait analysis of pulmonary arterial pressure (PAP). The last nine months at CSU, Culbertson managed and coordinated a USDA grant project examining late feedlot death in cattle. Cattle dying in feedlots due to heart failure is becoming a greater concern in the industry. This project examined the effects of PAP on the performance and survivability of fed steers and begins to answer some questions about this growing concern.

Culbertson shares, "I am very excited for this tremendous opportunity to join the ASA/IGS team and to serve our members. I am fortunate to be able to work for an organization that is focused on using science to provide seedstock and commercial producers the tools to make genetic improvement to their herds."

RYDEEN FARMS 22ND ANNUAL PRODUCTION SALE PERFORMANCE + PEACE OF MIND = SIMMENTAL + SIMANGUS" ISINGLAMATICAL - SIMANGUS - SIMMENTAL -

SATURDAY, FEBRUARY 8, 2020 | CLEARBROOK, MN

68 BLACK & RED YEARLING BULLS | 12 AGED BULLS [18 MONTHS] | 30 BRED & 10 OPEN FEMALES



RFS Bulletproof x CDI Authority Red, Homo Polled | 18-Month-Old 7.9 2.0 83 126 5 23 65 [130 API, 78 TI]



G A R Relevance x SVF/NJC Built Right Black, Homo Polled | Yearling 16.2 0.8 66 99 9 29 62 [161 API, 82 TI]



KBHR Next Level x S A V Bismarck Homo Black, Homo Polled | Yearling 13.5 0.3 77 122 9 23 62 [148 API, 83 TI]

Visit our website for updates, including videos and online catalog at



12/10/19 EPDs: CE BW WW YW MCE Milk MWW API TI



WS Proclamation x CLRS Constitution Homo Black, Homo Polled | Yearling 14.9 1.4 88 138 10 31 75 [161 API, 91 TI]



KBHR High Road x W/C United Homo Black, Homo Polled | Yearling 11.1 0.6 88 137 7 20 64 [130 API, 87 TI]



IR Imperial x TJ Power Grid Red, Homo Polled | Yearling 12.5 -0.8 67 101 8 33 66 [153 API, 82 TI]

Est. 1897 Polled Red & Black Simmental Cattle

47499 199th Ave, Clearbrook, MN 56634 Farm: 218-776-3338 | Paul: 218-280-1916 | rydeen@gvtel.com

6

PRACTICALITY · + eterosis · FUNCTIONALITY



Rousey SimAngus[™] Bull Sale 170 Black and Red SimAngus[™] Bulls SATURDAY, FEB. 8, 2020

Lincoln County Fairgrounds 1 PM CST • North Platte, Neb. First Breeding Season Guarantee



Tattoo: 9006G • Sire: Coleman Charlo 0256



Tattoo: 9077G • Sire: W/C Night Watch 84E





Tattoo: 9407G • Sire: OOO Sir Loin 5122



Tattoo: 9140G • Sire: Andras Fusion R236



Tattoo: 9150G • Sire: Hook's Xpectation 36X

W/C Rapid Fire 2101C • CCR Wide Range 9005A KG Justified 3023 • WS All Aboard B80 Connealy Capitalist 028 • Baldridge Colonel C251 Hook's Xpectation 36X • OOO Sir Loin 5122 5L Defender 560-30Z • Andras Fusion R236

Sices Represented Includer CCR Cowboy Cut 5048Z



ROUSEY SIMANGUS[™], LLC

Tyrell and Deandra Rousey • (308) 530-9279 4570 N Homestead Rd • North Platte, NE 69101 www.RouseySimAngus.com • f/RouseySimAngus Berger's Herdmasters has transitioned to Rousey SimAngus™

LECHLEITER SIMMENTALS Upgrade Your Herd 32nd Annual Top Bull Sale

March 21, 2020, 1:00 PM

Western Slope Cattlemen's Livestock Association Loma, Colorado

SELLING: Purebred Bulls SimAngus™ Bulls All Bulls are PAP Tested



CCR Wide Range 9005A • ASA# 2725666

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

 13
 .1
 81
 127
 .28
 7
 9
 50
 131
 77



 S D S Graduate 006X
 ASA# 2548143

 CE BW WW YW ADG MCE Milk MWW \$API \$T1

 17 -3.2
 73
 113
 .25
 8
 25
 62
 128
 73



 LRS Top Ten 104A
 ASA#: 2729707

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

 14
 -.7
 79
 122
 .27
 9
 11
 51
 135
 79



12.30.19

EPDs

 J Bar J Nightride 2257
 • ASA#: 2628568

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

 7
 -2.3
 70
 113
 .27
 8
 6
 41
 171
 90

Percentage calves out of Wide Range, Graduate, Top Ten and Nightride.

KIM LECHLEITER

970-209-8008 Cell • Evenings 970-249-5938 • lechleitersimmentals@hotmail.com Females Offered Private Treaty

Is Carcass Merit Vital to Your Business

We would like to work with you on your sire-identified, terminal calves.



- Free semen on the nations top herd sire prospects
- Free genetic evaluation (EPDs and Selection Indexes) on your cowherd
- ♦ \$60 paid per CMP sired carcass record
- DNA tests performed on terminal calves

*This is a structured young sire test so please inquire about qualifications and expectations.



- Free 50K DNA test on all sire-identified terminal calves with carcass data
- DNA Parentage included
- Allflex Combo kits (Dangle tag, EID and TSU) provided at no cost

*This is an ongoing research project, participants are limited so please inquire about availability.



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



American Simmental Association 406-587-4531 • www.simmental.org





Selling: 50 Simmental and SimAngus[™] Bulls 15 Registered Bred Heifers 20 Registered Open Heifers & aprx 100 commercial bred heifers

857

21.6



 QB Blueprint D47 x Mr NLC Superior S6018

 ASA#: 3647923 • BD: 3/5/2019 • PB SM

 Act. BW
 EPDS
 EEDS
 BW
 WW
 YW
 MCE

 98
 65.5
 4.3
 83.7
 126.5
 4.3

 Adj. 205
 MILK
 MWW
 MARB
 REA
 API
 TI

 830
 21.7
 63.5
 -0.05
 1.05
 119.9
 73.5



 CED
 BW
 WW
 YW
 MCE

 101
 EPDS
 CED
 BW
 WW
 YW
 MCE

 101
 Adj. 205
 MILK
 MWW
 MARB
 REA
 API
 TI

 913
 18.8
 62.6
 -0.04
 0.99
 115.5
 78.2



 MRL Red Whiskey 101B x Rendezvous Locomotive 80B

 ASA#: 3647928 · BD: 3/5/2019 · PB SM

 Act. BW

 96

 Adj. 205

 MILK

 MWW

 Market

 Adj. 205

-0.06 0.92 112.2 76

66.4

Contraction on	-		alls.	17
			12	
		3	1	
M				18. A
See Contract			G95	9

 CED
 BW
 WW
 YW
 MCE

 100
 EPDS
 CED
 BW
 WW
 YW
 MCE

 4.3
 4.7
 96
 142.3
 3.5

 Adj. 205
 MILK
 MWW
 MARB
 REA
 API
 TI

 866
 12.6
 58.9
 -0.09
 0.96
 117.5
 77.8



 DCR Main Attraction E18 x TNT Tanker U263 ASA#: 3647941 • BD: 3/1/2019 • PB SM

 Act. BW 94
 EPDS 94
 CED 4.5
 BW
 WW
 YW
 MCE

 Adj. 205
 MILK
 MWW
 MARB
 REA
 API
 TI

 796
 27.5
 65.5
 -0.05
 1
 118.2
 70.4



 DCR Power Up
 E68 x THR Northern 2109

 ASA#:
 3647951 • BD:
 4/10/2019 • PB SM

 Act. BW
 EPDS
 CED
 BW
 WW
 YW
 MCE

 94
 3.9
 4.2
 89.8
 131.3
 2.3

 Adj. 205
 MILK
 MWW
 MARB
 REA
 API
 TI

 906
 20.9
 65.8
 -0.07
 1.01
 117.6
 76



Visit us online or on Facebook to request a catalog or for videos, DNA and other updates prior to sale day.

www.KLSRCOWS.com

Visitors welcome anytime! Monty & Terri • Matt, Eddy, Emersyn & Landri Kline Matt: (701) 693-6317 • Monty: (701) 693-6806 E-mail: klsrcows@gmail.com



ASA# 3472589 Purebred Simmental Sire: WS Prime Beef Z8 Due Date: February 3, 2020 Bred to: W/C HOC Red Answer

ALC: YOUNG



Long's Simmentals 3272 320th Street | Creston, Iowa 50801

Rob--641.344.3028 | Tyler--641.344.5085 Cody--641.344.4357 www.longsimmental.com



Angus Sale--February 9, 2020 Simmental Sale--February 10, 2020



ASA#3638265 Purebred Simmental Sire: Law Maker



R

ASA# 3638252 5/8 Simmental **Sire**: Longs The Player



AAA# 19583099 Purebred Angus Sire: SAV Governor 6844



AAA# 19583098 Purebred Angus Sire: SAV Governor 6844

Black Simmental & SimAngusTM EFind us on: 32nd Annual Production Sale Selling 50 Yearling Bulls



CCR Wide Range 9005A x SAS/ASF All Star BD: 2-18-19 BW: 95 WW: 890 CE BW WW YW MCE Milk MWW API TI 7.6 3.3 79.6 117 4.8 20.8 60.5 113 69



 RC Club King 040R x Connealy Right Answer 746

 BD: 3-5-19
 BW: 95
 WW: 928

 CE
 BW
 WW
 YW
 MCE
 Milk
 MWW
 API
 TI

 11.7
 1.1
 77.5
 119
 5.4
 24.3
 63.1
 123
 72



Tuesday, February 4, 2020 2:00pm CT • Kist Livestock • Mandan, ND



 MRL Discovery 21A x Olf Odin U5

 BD: 2-19-19
 BW: 98
 WW: 920

 CE
 BW
 WW
 YW
 MCE
 Milk
 MWW
 API
 TI

 10.1
 2.3
 72.4
 116
 8.1
 30.2
 66.3
 113
 68



 CCR Cowboy Cut 5048Z x Olf Odin U5

 BD: 2-2-19
 BW: 71
 WW: 870

 CE
 BW WW YW
 MCE
 Milk
 MWW API
 TI

 12.1
 1.7
 81.7
 119
 8.0
 28.0
 68.8
 137
 78



 Ellingson Riddler E734 x Kappes Lucky Man W603

 BD: 3-24-19
 BW: 92
 WW: 843

 CE
 BW
 WW
 YW
 MCE
 Milk
 MWW
 API
 TI

 6.4
 3.2
 70.1
 111
 5.7
 24.1
 59.0
 123
 68



 CCR Cowboy Cut 5048Z x Olf Odin U5

 BD: 2-17-19
 BW: 88
 WW: 872

 CE
 BW
 WW
 YW
 MCE
 Milk
 MWW
 API
 TI

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 139
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February 10, 2020	Edge of the West Production Sale	Mandan, ND	701-843-8342
February 13, 2020	Lassle Ranch Simmental – Annual Bull Sale	Glendive	406-486-5584
February 17, 2020	Bulls of the Big Sky Bull Sale	Billings	208-267-2668
March 3, 2020	Hill's Ranch Production Sale	Stanford	406-566-2479
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March 17, 2020	Open Gate Ranch Sale	Simms	406-644-3113
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April 6, 2020	Nelson Livestock Co. Production Sale	Wibaux	406-588-3371
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Protect Cattle from Lepto and Other Feral-Swine Disease

By Boehringer Ingelheim, reprinted with permission from *Bovine Veterinarian*

With nearly 77% of all livestock located in regions with feral swine and up to 34 known diseases those swine can transmit, it's crucial for beef producers to protect their cattle from exposure to feral-swine disease risks.

"The biggest struggle we're having with feral hogs is that we're starting to see more of them, and in parts of the country we've never seen them before," said Jody Wade, DVM, Boehringer Ingelheim. "They're spreading disease to cattle that, unfortunately, can cause a lot of problems, including reproductive diseases."

The greatest threat to cattle from feral swine is disease transmission. Transmission usually happens when swine contaminate feed and water sources. This can infect cattle with a handful of costly diseases such as brucellosis, pathogenic *E. coli* and leptospirosis, one of the most common reproductive diseases leading to production and financial losses. The following steps can help beef veterinarians and producers make strides to protect cattle from exposure to feral-swine disease risks:

Increase biosecurity

For producers experiencing feral swine in their area, Dr. Wade recommends making sure their operation has a good fence. It's hard to keep feral swine away from livestock, and barbed wire fences typically don't offer the best protection. Net wire fences provide a barrier that pigs can't go through or underneath. Not only can fences protect cattle from disease transmission, they can also protect farm equipment and crops from being damaged by feral swine.

Another key component is to avoid feeding cattle on the ground. A lot of producers don't realize by feeding cattle on the ground, they increase the risk of pathogen transmission. When feral swine have access to feed, it is easy for them to contaminate it with their saliva or urine, putting cattle at risk the next time they eat.

Practice prevention

"When beef producers ask about prevention, I tell them vaccination is the number one tool to protect cattle from exposure," said Dr. Wade. CONTINUED ON PAGE 78



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HART POWERHOUSE 074G . PB SM



Homo Black, Hetro Polled Act BW: 85 Adj WW: 866 • HSR POWER PLUS D206 X WLB ROUGHNECK 366R 377W CE 6, BW 3.3, WW 96, YW 148, MCE 5, MILK 27, MWW 75 API 121, 11 79

HART MOST WANTED 083G • PB SM



Homo Black, Homo Polled Act BW: 87 Adj WW: 918 + GLS INTEGRATE Z3 X WLB ROUGHNECK 366R 377W. CE 7, BW 3.9, WW 100, YW 154, MCE 5, MILK 19, MWW 69, API 107, TI 81



HART TURNSTONE 124G • PB SM Homo Black, Homo Polled Act BW: 83 Adj WW: 842 RUBY'S TURNPIKE 771E X WS ALL AROUND Z35 CE 9, BW 4.0, WW 93, YW 141, MCE 5, MILK 26, MWW 73, API 125, TI 81



HART GLADIATOR 101G • PB SM Homo Black, Homo Polled Act BW: 85 Adj WW: 898 BBS TRUE JUSTICE B10 X WS ALL AROUND Z35 CE 11, BW 1.3, WW 88, YW 134, MCE 7, MILK 27, MWW 71, API 141, TI 86



HART ASSAULT OS9G • PB SM Hetro Block, Homo Polled Act BW: 87 Adj WW: 802 HSR POWER PLUS D206 X WELSH'S WARSAW 312Z CE 8, BW 4.0, WW 94, YW 145, MCE 6, MILK 23, MWW 70, API 128, TI 79



HART QUANTUM 067 G • PB SM Homo Block, Homo Polled ACT BW: 85 Adj WW: 921 W5 EQUALIZER E1 X WELSH'S WARSAW 312Z CE 8, BW 2.9, WW 79, YW 114, MCE 3, MILK 19, MWW 58, API 121, TI 72



HART DAKOTA 019G + PB SM Hetro Black, Homo Polled, Act 8W: 78, Adj WW: 874 DCR EXCLUSIVE E28, X, HART MERRITT 1558 CE 13, BW 2,3, WW 89, YW 142, MCE 7, MILK 33, MWW 77, API 125, TI 76



HART ROADHOUSE 328G • PB SM Homo Black, Hetero Polled Act BW: 80 Adj WW: 878 DKSR HOLLOW POINT C66 X-JF REAL WORLD 050X CE 10, BW 2.5, WW 74, YW 115, MCE 5, MILK 23, MWW 60, API 121, TI 73

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HART ATTACK 0486 • PB SM Hetro Black Homo Polled Act BW 85 Adj WW: 729 WS EQUALIZER E1 & PROFIT CE 8 BW 2.6 WW 61 YW 89 MCE 3 MILK 29 MWW 59 API 113 71 65



HART GOLIATH 094G • PB SM Homo Black, Homo Polled Act BW: 90 Adj WW: 901 WS EQUALIZER E1 X TRIPLE C INVASION R47K CE 8 BW 3.3 WW 81 YW 120 MNE 2 MILK 23 MWW 63 API 126 TI 73

HART TURNT' UP 217G • PB SM Homo Black, Homo Polled Act BW 87 Ad, WW 918 RUBYS TURNPIKE 771E X OBCC KING PIN W42Y CE 14 BW 2.5 WW 81 YW 128 MCE 8 MILK 28 MWW 69 API 135 TI 77



HART SOUTH POINT 286G • PB SM Homo Black, Homo Polled Act BW: 87 Adj WW: 866 HART BURBANK 363D X MADE IN AMERICA 210Z ICE 9 BW 2.7 WW 74 YW 115 MCE 5 MILK 29 MWW 66 API 123 TI 70 Bulls will be penned on display at the farm prior to and also <u>sale day.</u>



HART MILO 211G • PB SM Homo Black, Homo Polled Act BW: 83 Adj WW: 915 HSR POWER PLUS D206 X HART IN TIME W095 CE 9 BW 2.8 WW 84 YW 135 MCE 6 MILK 33 MWW 75 API 120 TI 75



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FELT GETTING UP N GO G350 W/C Bankroll 811D x Nelson Style 4418 SimAngus™ Herd Bull Prospect BW 77 WW 745

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INDUSTRY UPDATE

Killed vaccines that protect against leptospirosis are easy to add to any protocol as a first line of defense. More often than not, when a producer purchases their cattle, they are given limited information on the animals' previous preventive health programs. Since killed vaccines only contain killed antigens, they offer safe and effective protection regardless of previous vaccination status. They can also be administered to cattle of all ages and at all stages of production.

"If we vaccinate routinely for leptospirosis, we know we can control it," Dr. Wade concluded. To learn more about vaccination plans and protocols to control diseases of feral swine, producers should work closely with their veterinarians.

Study Shows Cattle Temperament Affects Feedlot Performance

By Piper Whelan, reprinted with permission from *Canadian Cattlemen*

Differences in beef cattle temperament could significantly affect value from the feedlot to the plate, according to a Texas A&M University study.

These findings, published in the Journal of Animal Science, show heifers with calmer temperaments have better feedlot performance and, as a result, higher carcass quality and value than those with more excitable temperaments. This suggests that evaluating temperament could be a useful feedlot management practice with less cost and effort than developing new tools.

CONTINUED ON PAGE 80

Trauernicht Simmentals 45th Annual PRODUCTION SALE 2020

Sunday February 16th 12:00 Noon New Location: Trauernicht Simmentals Sale Facility at 901 E Pine, Wymore, NE



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LHT 109G SimAngus™ TJ Main Event 503B x Tour Of Duty BW 1 WW 82 YW 123 API 126 TI 80



LHT 77G 3/4 SM WS All Aboard B80 x Mulberry BW 0 WW 84 YW 131 API 139 TI 82



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Cameron Olson, currently a Ph.D. student in animal science at the University of Alberta, was the lead author on this study, working with primary investigator Dr. Gordon Carstens of Texas A&M University. Olson's interest in improving beef production efficiency with easily adopted tools drew him to this topic.

"We don't have to rely on long-term genetic change necessarily for this. A lot of this could be implemented right away," he says. "The animals inherently have these traits, and it's up to us to look at how to use them."

The study examined how temperament upon feedlot arrival relates to feeding behaviour, feedlot performance and carcass traits and value. It also explored the role of breed type in relation to temperament. Newly weaned heifers around eight months of age were used in three trials conducted over three years, with breed influence being purebred Angus, Brangus, Simbrah or Braford. Heifers were used rather than steers based on data availability.

It was important that the animals were sourced from a single location, as past studies on temperament used cattle from multiple locations. This allowed for decreased variation in how the heifers were raised as well as increased uniformity in genetics.

Researchers evaluated temperament by measuring exit velocity when the heifers arrived at the feedlot and at the beginning and end of each trial. Researchers used infrared sensors to time how long it took a heifer to travel 1.8 metres after exiting a squeeze chute.

In addition to using electronic feed bunks from GrowSafe Systems to collect data on feed intake and feeding behaviour for 70 days, heifers were weighed every 14 days, and ultrasound carcass measurements were taken at the start and conclusion of each trial. Measurements included loin muscle area, subcutaneous backfat depth, and intramuscular fat percentage.

There was a significant difference in initial body weight, with calm heifers coming into the feedlot heavier than excitable heifers. As a result, these animals were heavier when they came off trial. Calm heifers also had a higher average daily gain.

"That starts to paint a picture of calm animals that are a little bit more efficient compared to animals that are excitable," says Olson.







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This is backed up by the eight percent difference in dry matter intake between calm and excitable cattle. Calm animals averaged a dry matter intake of 9.4 kilograms per day, compared to the average of 8.7 kilograms per day for the excitable heifers. While there was no difference in residual feed intake between calm and excitable heifers, the gain-to-feed ratio showed that calm heifers gained more per pound of feed consumed, as expected based on the findings for average daily gain.

The study didn't find a noteworthy difference among the four breeds of heifers in initial or final relative exit velocity. Olson found this a bit surprising, as past research suggests that on average, Bos indicus cattle can be more temperamental than Bos taurus cattle when put through these tests.

"We didn't find much difference between those different breeds, and we think it's probably because they were all from the same location," he says. Another reason may be the lower percentage of Brahman genetics present in the American breeds used in the study, which was only three-eighths.

Temperament results in differences in tenderness and value

Olson says that including carcass traits in this study was important to better understand the topic.

"There isn't much else out there that looks at the whole scope and follows these animals, from the same environment, through to slaughter and records that carcass information," he says. "The literature shows that temperament impacts feedlot efficiency and it impacts carcass traits, so we wanted to tie it all together and see if those animals that were more efficient in the feed yard paid dividends as well when they actually made it to the rail."

The study examined carcass quality, yield grade and tenderness, and found that the effects of temperament also translated into more desirable carcass traits. Calm animals had a greater hot carcass weight, as reflected by their heavier weights while on feed. These cattle also had larger ribeye areas and loin muscle areas and were fatter.

CONTINUED ON PAGE 84





She sells in Rapid City!

CHECK HER OUT AT THE BHSS ON FEBRUARY 8, 2020!

> ES F17 • Purebred CDI Perspective X CDI Authority Bred to: CDI Legendary 364D on 5/30/2019

> > ES GB101-1 • 5/8 SM 3/8 AN Hook's Eagle 6E X BC Lookout 7024

> > > This sale will be broadcast live on the internet! Broadcasting Real-Time Auctions

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"The yield grade was as expected," says Olson. "With fatter cattle, you have a significantly higher yield grade, but you also have a higher quality grade, which is what you need to see when you have a higher yield grade in order for those cattle to continue to be profitable."

Using the Warner-Bratzler shear force test to determine tenderness, they found that temperament resulted in differences in tenderness, seen in the initial test and then after steaks were aged for 14 days. Both tests showed that tenderness was considerably higher in calm cattle.

"We're not really sure what may have driven those differences, but they exist and it's something that future research could certainly look at as to why calm animals may have more tender beef than excitable animals," he says. They followed this portion of the study with a small economic analysis. Using a grid to price the cattle out based on yield and quality grade, there wasn't a huge difference in carcass values; however, due to the differences in body weight, the calm animals brought more money per animal than the excitable animals. While excitable animals brought \$1,278, the calm animals brought \$1,335.

"When we included the Warner-Bratzler shear forces into that marketing grid, we had almost a significant difference between the value per pound between calm and excitable animals, but it really came out to a larger differential between calm animals and excitable animals on a dollars per animal basis." CONTINUED ON PAGE 88

PPSR Payweight 65G

WW

71 107 .22

DOC

11

YW ADG

CW

45.9

MCF

q

YG

-.10

ASA# (3645648) CE BW W

MWW

59

13 -.2

Milk

23



0

MB BF REA \$API \$TI .28 -.03 .55 130 74

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PPSR Black Granite 44G				
		AS	SA# (36	45468)
BW	WW	YW	ADG	MCE
.6	76	117	.26	9
MWW	D	C	CW	YG
62	13	3.3	42.3	17
BF	R	EA	\$API	\$TI
04	.6	64	137	76
3				1.00
	BW .6 MWW 62 BF	BW WW .6 76 MWW D0 62 13 BF R	BW WW YW .6 76 117 MWW DOC 62 13.3 BF REA 1100	ASA# (36 BW WW YW ADG .6 76 117 .26 MWW DOC CW 62 13.3 42.3 BF REA \$API





PPSR Prime Cut 16G

ASA#	(364566	1)			
CE	BW	WW	YW	ADG	MCE
13	.7	80	125	.28	10
Milk	MWW	D	C	CW	YG
22	62	1	7	46.2	29
MB	BF	RI	EA	\$API	\$TI
.23	05	.9	99	130	79

PPSR Horizon 310

			AS	SA# (36	45579)	
CE	BW	WW	YW	ADG	MCE	
17	-2.3	79	120	.26	9	
Milk	MWW		00	CW	YG	
26	66	13	3.1	42.3	23	
MB	BF	R	EA	\$API	\$TI	
.35	05		77	148	85	



EPDs as of 12.16.19

Denver is our WORK ZONE! ()



LLSF Pays To Believe ZU194 ASA#: 2659897 • Pays To Dream x Trademark Homozygous Black/Heterozygous Polled

Granddam: Rockin Robin

Dam: URA Baby Doll

\$API: 110 \$TI: 72

EPDs: CE: 8

Pays To Believe is the spectacular 2015 NWSS and 2014 Granddam: Rockin Robin NAILE Grand Champion Bull! His first calves are averaging 5 digits in public auctions and his full-sib sisters averaged \$16,000 in Lee's 2014 fall sale.



WLE Big Deal A617 EPDs: CE: 11 \$API: 107 \$TI: 64 ASA#: 2743620 • Homozygous Polled Steel Force x Shawnee Miss 770P Big Deal is exciting at Mid Continent Farms & Wesner Livestock. Big Deal is calving easily and adding value to progeny! Maternal brother to Uno Mas.



DMCC/Wood Fully Loaded 39D EPDs: CE: 11 \$API: 130 \$TI: 67 ASA#: 3131823 Lock N Load x 3C Macho Fully Loaded is a full brother to W/C Loaded Up. His first progeny have been extremely well received!



TNGL Grand Fortune Z467 ASA#: 2654876 • Grandmaster x STF Montana Black 2014 NWSS Champion Bull!

Homozygous Black & Homozygous Polled Exciting, extra complete first progeny with lots of extension!



CE: 10 \$API: 140 \$TI: 73

FPDs

EPDs: CE: 8



Famous donor dam, Hope Floats



2014 NWSS Champion Bull

\$16,000 Grand Fortune daughter

\$API: 102 \$TI: 66

Fortune daughter that was

a 2018 Sullivan Farms Sale

feature and won several

times for the Moores!

Floats ASA#: 33 WS All Ar Homozyg

R

OMF Epic E27 ASA#: 3317371 WS All Around Z35 x OMF Commander Y69 Homozygous Polled • Homozygous Black EPDs: CE: 16 \$API: 150 \$TI: 82 Exciting calving ease outcross genetics who sold to Schooley, IA, and Sears, CA,

from Oak Meadow's NWSS Pen!



RFG/K-LER Elevation 727E

ASA#: 3268058 LRS Elevate 213B x MCM Top Grade 018X Homozygous Polled • Homozygous Black EPDs: CE:12 \$API: 141 \$TI: 78 High-selling bull in 2018 "The One Sale", selling to Lee, CO. Tremendous EPDs combined with great design an exciting purebred!



ACLL Fortune 393D

ASA#: 3190116 • Homozygous Black/Homozygous Polled Mr TR Hammer 308A ET x WS Pilgrim H182U

Fortune is the exciting new sire that is a Hammer x Pilgrim cross that works so well! His dam is the great Firefly female that sold for \$100,000 in the fall 2013 sale and was a champion for the Efflings!



Mr. TR Hammer 308A ET ASA#: 2759745 • Upgrade x Dream On

EPDs: CE: 9 \$API: 119 \$TI: 79

Black/Polled

1/3 revenue sharing \$200,000 top-seller of the 2013 HCC Sale, Hammer is a world class individual with a unique blend of pedigree, performance and phenotype. A rarity who combines performance, EPDs and phenotype. With Hammer, you can compete on the tanbark and produce breed-leading bulls who will work for even the most discriminating commercial cattleman!



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K-Ler Kingsman 610D 5/8 SimAngus™

ASA#: 3125337 • Homozygous Black/Homozygous Polled WC Executive Order x GW Predestined 701T

Kingsman was the high-selling bull in the 2017 "The One" Sale, selling to John Lee, CO. Kingsman puts together as nearly a perfect combination of EPD profile, genetic merit, unique pedigree power, structural soundness, and real-world functionality and phenotype as any sire available! Move your herd to a higher kingdom with Kingsman!







Kingsman's other full sister at the "The One" Sale brought \$25,000 to Werning, SD.

CE: 10 \$API: 106 \$TI: 67

Bottomline's paternal brother is

out of a Broker dam...he's the

\$400,000 Profit!





W/C Loaded Up 1119Y ASA#: 2654155 • Remington Lock N Load x 3C Macho Heterozygous Black/Homozygous Polled Half-interest sold for \$240,000

at the 2017 Embryos on Snow sale to Griswold! Loaded Up is out of a great cow family, will moderate frame, improve front ends, and maintain soundness!





Loaded Un's famous dam!



Loaded Up daughter - many time champ for Skiles, TX.

Loaded Up son at Werning's.

\$API: 123 \$TI: 73

Carver's dam is the famous

Carver was the lead-bull in the

Kearn's 2016 Champion Pen!

donor, Dolly,



TL Bottomline 38B ASA#: 2905451 WS Pilgrim x Fat Butt Heterozygous Black/ Homozygous Polled Bottomline will add power and PIZAZZ to your next calf crop. He's going to especially work great on Steel Force, Uno Mas and Pays influenced females.



EPDs:

Bottomline's Dam



Bottomline's Reserve Champion paternal sister out of a Broker dam speaks to the quality of this mating opportunity!

His full sister commanded \$25,000 at the 2017 "The One" sale!



Sexed semen available and limited!

TKCC Carver 65C

ASA#: 3045230 • WS Pilgrim x Driver Homozygous Black/Homozygous Polled Carver was the high-selling and lead-off bull in the Kearns 2016 Sale. His dam, Dolly, has produced some extremely well received and valuable progeny of both sexes!

He's a real-world bull to use on anything with white on it . . . he'll add performance

and great type!



EPDs:

CE: 10

Carver's Maternal sister by GLS New Direction at Rains and Bird.





TJSC Hammer Time 35D ASA# 3185062 Mr TR Hammer 308A ET x TJSC So Sweet 104X

EPDs: CE:14 \$API:119 \$TI:67

Hammer Time is siring excellent show-quality type progeny with the ability to generate profit for their owners! He is trending UP in popularity.



as of 12.6.19

EPDs a

KRMS Primary Candidate B204 ASA# 2994148 OMF Double Shot x Mo Better Heterozygous Black/Homozygous Polled

EPDs: CE: 7 \$API: 109 \$TI: 62

The 2016-2017 Triple Crown Champion Percentage Bull, winning NWSS, NAILE, and American Royal!



Jass On The Mark 69D ASA# 3210989 Loaded Up x In Dew Time Black/Polled

EPDs: CE: 12 \$API: 136 \$TI: 69

An exciting bull who should sire a bit more frame than his popular sire. His dam was 4th overall B&O at the AJSA National Classic! She's an In Dew Time x Macho.



K-Ler Cash Flow 528C ASA# 3042933 Make It Rain x Miss Kansa

EPDs: CE:7 \$API:117 \$TI:69

Cash Flow was a successful show bull and is a brother to the famous many-time champion heifer of Ritchey's a few years back!



VCL LKC Dagger 605D ASA#: 3173463 • Profit x BF Miss Crysteel Tango Full brother to The Duke and Profit Maker



VCL LKC The Duke 633D ASA#: 3173461 • Profit x BF Miss Crysteel Tango



VCL LKC Profit Maker 604D ASA#: 3173459 • Profit x BF Miss Crysteel Tango



VCL LKC Equity 608D ASA#: 3188692 • Profit x BF Miss Crysteel Tango



progeny sales. She's the dam of popular 2014 champion Firefly, who produced Hartmans high selling bull! Miss Crysteel Tango is a Steel Force out of a full sister to Pays To Believe's dam. Power in the blood here! Their full sister brought over \$100,000 in Hartman's 2018 fall sale!

In just her short time in production,

she's produced over \$500,000 in



2017 NWSS Reserve Grand Champion Pen of Three

EPDs: CE: 7 \$API: 108 \$TI: 57

Homozygous Black, Homozygous Polled



VCL LKC Dagger 605D

EPDs: CE: 8 \$API: 104 \$TI: 58

Heterozygous Black, Homozygous Polled. The ultra stout, solid black anchor bull to the 2017 Purebred Pen for Voglers. 1,350 lbs. at 10 months. The Duke is a stud!

CE: 6 \$API: 109 \$TI: 62

This eye-appealing high selling

bull for Vogler's was also the

lead bull in their Reserve

Champion Denver Pen! Rust Mountain, ND and

Homozygous Black,

Homozygous Polled

EPDs:

Rocking P Legendary C918

ASA#: 3070709 • Harkers Icon x SVF Steel Force Homozygous Black/Homozygous Polled

Legendary is a direct son of deceased Icon, and is an ultrasound, good-footed, soft-middled bull with tons of function and eye appeal. He was a successful show bull for Rocking P, being a division champion at NAILE, and winning Sweepstakes and the Kentucky State Fair. Bloomberg's added Legendary to their powerful herd battery, selecting him as the second high-selling bull at "The One".

FPDs CE: 9 \$API: 103 \$TI: 60



Valentine is Legendary's legendary maternal granddam, and foundation donor for many of the Rockin P success stories!



2018 NAILE Reserve Cal by Legendary.



LLSF Better Believe It D64 ASA#: 3152728 • Pays To Believe x LLSF Cayenne





EPDs:



Both Better Believe It and Charged Up share this donor dam: LLSF Cayenne

EPDs: CE: 13 \$API: 121 \$TI: 68

Homozygous Black, Heterozygous Polled



These two full brothers, Better Believe It and Charged Up were members of the Lee Simmental Farms 2017 Champion Denver Pen of Five.





TL Ledger 106D ASA#: 3240219 • Profit x Flying B Cut Above

EPDs: CE:10 \$API:114 \$TI:65

Black. Polled

He continues the legendary Profit genetics out of the famous dam of Bottomline, Miss Star Above! Use him on your Dream On, Upgrade, Loaded Up and Steel Force pedigrees to add mass, depth and power!



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Hartman, NE have sold highsellers in their respective 2019 sales with his first calf crop! EPDs: CE: 11 \$API: 113 \$TI: 62

Homozygous Black, Homozygous Polled A high-seller in the 2017 Hartman Sale to Gregg Schaefer, ND. Owners, Mike Moser and Chris Polzin. First progeny are looking great!



Maternal sister: Firefly 311A. She was Grand Champion Female 2014 American Royal



ister to Firefly – 3rd Overall B&O at the National Classic, Kersten, NE.

Dam: BF Miss Crysteel Tango

Sire: Profit

More research needed on causes and applications

These findings raise questions about what causes the variations between cattle of different temperaments, as this is not entirely understood, Olson says.

"Is it stress hormones that are controlling a lot of this? Is there some other physiological phenomena that we aren't aware of yet that's driving these differences in how animals gain and how they carcass out?"

Feeding behaviour is known to sometimes predict feedlot performance. Cattle that are at the bunk longer and more often generally gain more. Olson believes there's more to explore regarding how these behaviours interact with temperament.

"Are animals that are more excitable less likely to be competing for food? Are they less likely to be right up at the bunk when feedlot machinery passes by?"

Further research is also needed on how cattle sorted into groups based on temperament on feedlot arrival interact with each other, though there is anecdotal evidence on how a calm heifer can cool down a group of excitable heifers, or vice versa. "Are the feedlots actually going to be able to implement this, and are they actually going to be able to use it to improve production efficiency at the feedlot level and therefore at the carcass level as well?"

As well, interest from feedlots in implementing management practices based on these findings needs to be gauged. Olson says it may be of interest because measuring chute exit velocity and sorting on that basis doesn't require further processing.

"It's something that can be done when cattle come off a truck, more or less, and enter the feed yard."

Cattle with Feet Issues Often Culled Earlier Than Normal

By Martha Blum, reprinted with permission from *AgriNews Publications*

Developing a genetic evaluation for feet and legs of cattle can help producers improve their herds.

"Good stewardship necessitates that we focus on genetic improvement in this area to decrease the number of welfare incidents in our production system," said Bob Weaber, professor and Extension cow/calf specialist at Kansas State University. CONTINUED ON PAGE 92

Low Density DNA testing through the American Simmental Association (ASA) in exchange for feed intake data.

- ASA Members will receive a \$25 rebate after low density DNA test and feed intake record on the same animal are submitted.
- Records must be valid for use in ASA's genetic evaluation.
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 Harvie Red Summit 54B x Ellingson Klondike B472

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

 5
 4.4
 97
 150
 .33
 3
 20
 69
 106
 76

 Adi, WW: 855 lbs.
 3
 20
 69
 106
 76



 Harvie Red Summit 54B x Ellingson Ms. Ideal B4054

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

 11
 1.2
 89
 139
 .31
 7
 22
 67
 110
 72

 Adj. WW: 866 lbs.
 89
 139
 .31
 7
 22
 67
 110
 72



 LFE The Riddler 323B x Ellingson Traveler S669

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

 7
 2.7
 88
 138
 .31
 7
 22
 66
 124
 75

 Adj. WW: 842
 Ibs.
 State
 State

For catalogs and information:



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Guest Consignor: Strommen Simmentals, Arthur, ND • 701-967-8320

The catalog and updated information (homozygous polled test, ultrasound and scrotal measurements) will be available online.





V A R Discovery 2240 x Ellingson Dominator A310 CE BW WW YW ADG MCE Milk MWW \$API \$TI 9 2.1 91 151 .37 7 19 65 145 89 Adj. WW: 844 lbs.



 CDI Hometown 246A x Ellingson Ms. Dakota Z252

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

 8
 4
 97
 148
 .32
 5
 22
 70
 142
 88

 Adj. WW: 900 lbs.
 bs.

HILDER TO PRESAME A THINK OF

LFE The Riddler 323B x Ellingson Ms. 6805 A336

GLS Integrate Z3 x Ellingson Tanker Z3042

BW WW YW ADS MCE Milk MWW \$API \$TI

6

18

67

35

BW WW YW ADG MCE Milk MWW \$API \$TI

4

19 66

2.25.8

G969

129 80

G9027

108 78

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Bulls will be SEMEN TESTED and GUARANTEED BREEDERS.

CE

4

46 94 151

3.8 98 157 .37

Adj. WW: 864 lbs.





 Harvie Red Summit 54B x Ellingson Ms. Amigo Z223

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

 12
 1.3
 90
 135
 .28
 7
 20
 65
 120
 77

 Adj. WW: 885 lbs.
 285
 7
 20
 65
 120
 77

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CF

Adj. WW: 935 lbs.

9



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INDUSTRY UPDATE

"Any time we cull a female before her productive life has paid back her development cost, we experience a loss," Weaber said during a webinar hosted by the National Beef Cattle Evaluation Consortium.

CONTINUED

"We should consider making some genetic improvement because we know replacement females are one of the major cost centers in cattle production at the cow/calf level."

In addition, bulls with feet issues will require them to be culled earlier than they would normally be removed from the breeding herd.

"Getting bulls back because they have a problem related to feet and leg structure doesn't provide very good customer service to clients," Weaber said.

One of the challenges related to feet and legs is deciding what to score.

"And the surface the animal is standing on when you score it can make a big difference on how easy or difficult it is to score the feet," Weaber said.

"There is not a lot of work done to look at the relationship between the claw set and cow stayability," he said.

"That is an opportunity as we collect more data to look at that and understand those relationships."

"People interpret that the things we select for are things we care about," he said. "That is true for commercial customers that buy bulls, and it highlights to consumers that these are important issues that we strive to improve in our production system."

Researchers have considered lots of ways to evaluate the structure of cattle feet and legs. Those attributes include shoulder angle, front leg and knee orientation, hip and stifle set, hock set and hoof attributes such as toe angle, toe shape and heel depth.

"The shoulder angle affects how the foot and toe performs on those animals," Weaber said. "The hock set affects how the rear foot comes to the ground and grows in terms of the toe shape, toe length and heel depth."

Super-Tuning Stayability

Warren Snelling, a research scientist at the US Meat Animal Research Center in Clay Center, Nebraska, talked about the work he has done on stayability tools to select for efficient cows, during the webinar.

"The definition I have for an efficient cow is she is a fertile cow," Snelling said. "Increasing fertility gives you more calves, fewer cull cows so you don't need as many replacements, you're not spending as much developing heifers and you have fewer heifers calving so you'll have lower dystocia," he said. Creating the balance BETWEEN TECHNOLOGY & COW SENSE TO CREATE Atable

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4306G | 1/2 SM 1/2 AN | ASA# 3545144 LD CAPITALIST X MCM TOP GRADE



161G | PB SM | ASA# 3545139 HOOK'S BALTIC X MCM TOP GRADE



442G | PB SM | ASA# 3563006 HOOK'S EAGLE X LRS CLASS ACT





7104G | 3/4 SM 1/4 AN | ASA# 3563059 RBS BOISE X CONNEALY CAPITALIST



8035F | PB SM | ASA# 3405879 3C PASQUE X TNT DUAL FOCUS

Clay & Marianne Lassle // 406-486-5584

816F | 1/2 SM 1/2 AN | ASA# 3405821 MCCONNELL ALTITUDE X LRS A PLUS

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 CED
 BW
 WW
 YW
 MILK
 \$W
 \$B

 +13
 +1.0
 +75
 +135
 +20
 +71
 +148



CED	BW	WW	YW	MILK	\$W	\$B
+12	+.4	+61	+114	+22	+58	+114



CED BW WW YW MILK \$W \$B +9 +1.2 +65 +126 +24 +64 +149 Sale Date: Saturday • February 15, 2020 Lunch at 11 a.m. • Sale Starts at 1 p.m. (CST) At the Ranch • Boswell, OK

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 GED
 BW
 WW
 YW
 MILK
 API
 11

 12.7
 1.8
 80.4
 122.8
 18.5
 146.5
 81



AAA EPDs as of 12/4/19

Lee Nickles Ranch Manager 580-367-0299





Billy Hall, Consultant 918-244-0154 bkcattlecfl@gmail.com

TV

Sale book request Cindy Wayman 918-244-8430 rwayman@cableone.net 251 East 1995 Road ● Boswell, OK 74727 The genetics worth waiting jor!



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KBHR SNIPER Owned with Wilkinson Farm Simmentals CE 25 BW -4.1 WW 72 YW 107 MCE 15 M 30 MWW 66 API 181 TI 88



KBHR WENTZ Owned with Bielenberg Simmentals and All Beef CE 13 BW 1.7 WW 86 YW 138 MCE 6 M 24 MWW 67 API 132 TI 84

EPDs 12/20/19

Dwight, Susan & Jake Keller — Luke & Katy Keller — Tessa & Thomas Osterbauer 701-471-5215 (Dwight) • 701-471-1142 (Luke) • 701-471-5065 (Jake) • 701-445-7350 (Home) 1573 55th St., Mandan, ND 58554 • kbhr@westriv.com • www.kbhrsimmental.com

Stayability is a binary measure, Snelling said. "You either have success or failure," he said. "You don't pick up differences like cows that conceive early in the breeding season."

Researchers are interested in how stayability might be related to cow weight and efficiencies. "We have annual records of cow weights so we can look at correlations between growth, productivity and weight," Snelling said. "Things we need to work on now are economic values for productivity and maybe working these traits into selection indexes," he said.

"One of the problems we have now is that we've got lots of cows that are genotyped, but we may not have genotypes on their contemporaries that have been culled before they were genotyped," he said. "There may be some unintentional bias until we get complete genotypes on females."

See page 50 and 51 to learn more about ASA's feet and leg scoring system.

Resistance to Dewormers is Growing: Treat Cattle Less Frequently

By Anna Miller, reprinted with permission from Western Livestock Journal

Resistance is not a new topic when it comes to drugs such as antibiotics, but one class of drugs - anthelmintics, also known as dewormers - is often overlooked. And that's not good.

An anthelmintic is the term for drugs used to treat and prevent infections of animals with parasitic worms. Worms are not only a welfare issue in the livestock industry, but also result in an economic burden.

Parasitic worms of relevance include flatworms, tapeworms, and roundworms. Ostertagia ostertagi, commonly known as the medium or brown stomach worm, is the most important cattle parasite in North America, according to Dr. Thomas Craig of Texas A&M University.

Resistance to deworming products is caused by the ability of parasites to survive doses of drugs that would typically kill similar parasites. These drugs can be administered in the form of a pouron, paste, drench, or injectable. CONTINUED ON PAGE 100

th Annual ASA Fall Focus

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"Anthelmintic resistance is an inevitable consequence of the use of anthelmintics over time," said Louisiana State University Extension Veterinarian Christine Navarre in an Extension publication.

The short answer to "why does resistance happen?" is an overreliance on anthelmintics. Resistant parasites have genes that protect them from being affected by an anthelmintic. Drug-resistant worms exist in a small proportion of all populations. After deworming an infected animal, the only worms that survive in a population are resistant to the drug. It's a simple case of only the fittest survive. The resistant worms will then pass their genes onto the next generation, creating an increasingly drug-resistant population.

Wormy details

Adult parasitic worms live in the gastrointestinal tract of cattle and lay eggs that are shed in manure, according to Navarre. The eggs hatch into larvae that crawl onto grass and are ingested by grazing cattle. The larvae then develop into adults in the gastrointestinal tract and continue the cycle.

There is vast genetic diversity in parasite populations. A species can lay up to 5,000 eggs a day, and with 300 females infecting each host in a herd of 100, this can result in upwards of one billion eggs total per day on an individual operation.

Cooperia sp. and Haemonchus placei are common worms found in cattle but tend to affect only calves. They are warm-season worms, so large numbers build up in summer months. Cattle tend to build immunity to these parasites as they mature, but adult cattle will continue to

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carry low numbers that can contaminate the pastures for calves.

Brown stomach worms are significant because they impact both young and adult cattle. The parasite thrives in cool weather from October to May.

Cattle are less commonly identified with anthelmintic resistance, as treatments aren't given frequently enough to stoke resistance. Small ruminants are the most prone to resistance worldwide and horses also have a higher incidence of resistance as they are more regularly dewormed.

In addition to anthelmintic resistance, rainfall, environment, grazing management, animal maturity, and individual immunity determine the severity of parasitic outbreaks on operations.

Delaying resistance

Resistance is a natural biological consequence of drug treatment. Overusing a product and ignoring resistance issues could result in a serious case of drug-resistant parasites. Frequently treating animals with a dewormer more than a few times a year, underdosing, and other management practices can increase the onset of resistance.

By treating all animals at the same time — a common management practice to save labor and time — resistance is more prone to happen. In addition, treating animals when there is a small incidence of larvae in the pasture, or treating and turning out onto a clean field, can encourage resistance even further.

However, attempts can be made to prevent the inevitable. For example, by only treating animals that display a need for treatment (especially before turning out into clean pastures), avoiding deworming older cows going into summer, not using the





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same pastures for young stockers year after year and selectively breeding and culling, resistance can be delayed.

Increasing overall herd immunity will decrease the potential for parasites, which can include implementing a proper nutrition program. Using cows as "vacuum cleaners" for calf parasites by grazing cows on pasture after calves can reduce the amount of Cooperia and Haemonchus parasites.

Implementing a proper parasite control program is also important to delaying resistance. Ensuring proper product storage, administration, dose, and route can help achieve the expected production responses. Alternating product use will keep parasites from building immunity against a certain product.

Maintaining and increasing "refugia" in the worm population is one of the most critical control measures to delaying resistance. This is effectively selecting for weaker worms.

Anthelmintics (dewormers) can be administered orally, topically or by injection. "Parasites in refugia do not have genes for anthelmintic resistance — they are still susceptible to anthelmintics," Navarre said. "The more refugia in a population, the more the resistance genes in a population are diluted and the more effective anthelmintics will be."

By deworming an entire group of cattle, refugia is eliminated in the animals and the only parasites that survive are drug resistant. After mating and reproducing, the parasites take over and eventually dewormers fail to work. By selectively treating animals, refugia can be maintained and worms that are not drug resistant will be capable of reproducing other non-drug-resistant offspring.

The same idea goes for pastures. If an entire group of dewormed animals are put onto clean pasture, the only parasitic inhabitants of that pasture will now be drug resistant and contaminate the entire pasture.

"Cattlemen should work with their veterinarian to find a balance between keeping overall parasite levels low enough to prevent economic losses while at the same time retaining some refugia to slow the progression of anthelmintic resistance," Navarre said.

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Take a Fresh Look at Trichomoniasis Management

By Boehringer Ingelheim. reprinted with permission from Bovine Veterinarian

"There's not another disease out there that approaches the economic significance of trichomoniasis for a cow-calf producer." stated John Davidson, DVM, Boehringer Ingelheim.

Trichomoniasis, or trich, is a sexually transmitted protozoal disease that is transmitted from bull to female or female to bull. While clinical signs may not be observed, bulls are the carriers of trichomoniasis and spread it to cows during breeding. Infected cows show no outward signs: however, reproductive failures such as infertility, low pregnancy rates, abortions and pyometra are indicators of infection.

With trich's ability to cut a calf crop in half, implementing a management protocol is crucial. "Infected bulls are asymptomatic permanent carriers of this disease," said Dr. Davidson. "A bull's value can be wiped out in a single service with an infected cow or heifer. Most operations simply cannot tolerate a scenario where a \$5,000 bull is used for one or two breeding seasons and is culled due to a trich infection. To avoid lost profits due to reproductive inefficiencies on your operation, I recommend taking a fresh look at the trich prevention and biosecurity protocols you have in place for your herd."

Discussing the following topics with a local veterinarian can help producers establish an effective trich prevention and management program:

Bull selection and testing

Though bulls of any age are susceptible, older, sexually active bulls are more likely to be infected with trich. To reduce the likelihood of trich introduc-**CONTINUED ON PAGE 108**

• 13 sons of CCR Horizon



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INDUSTRY UPDATE

tion, it is recommended that producers avoid purchasing untested, non-virgin bulls or bringing them into a herd. Since trichomoniasis is physically unnoticeable in bulls, testing prior to breeding is strongly encouraged.

"Testing bulls for trich before turnout is an absolute must," said Dr. Davidson. "I suggest that large operations in at-risk areas conduct postbreeding testing on bulls. Post-breeding testing coupled with accurate pasture breeding records can go a long way in avoiding a trich disaster."

Prior to testing a bull, sexual rest should be observed for two to three weeks to allow numbers of the organism to increase and improve the chances of detecting a positive bull. Dr. Davidson noted that this is also a good time for a veterinarian to perform a breeding soundness exam (BSE). The Society for Theriogenology has recently adjusted BSE standards, allowing for more accurate and potentially more useful results for both veterinarians and producers.

Vaccine selection

In heifers, the transmission rate of infection was reported to be 95% after a single mating with a 3-year-old trich-infected bull. Given the ease of transmission and the likelihood of delayed detection, administering appropriate reproductive vaccinations is crucial.

"If a properly vaccinated female is exposed to a trich-infected bull, the likelihood that she calves successfully is increased substantially," Dr. Davidson explained. "Proper vaccinations provide insurance against costly diseases and production losses."

He recommends producers choose a vaccine that reduces the shedding of trichomoniasis in addition to a vaccine that can protect against the other leading reproductive diseases. This vaccination plan protects cattle against common diseases known to cause delayed breeding, abortions and smaller calves.



Vaccination timing

"In trich-prone areas, it's pretty common to vaccinate cows at pregnancy check," said Dr. Davidson. "However, this may be a little later than ideal to prevent this venereal disease, as peak antibody production typically occurs 30 days after the annual dose is given. For optimal protection, cows should be vaccinated 30 days prior to bulls being turned out."

He encourages producers to read and follow the vaccine label closely. Proper administration timing is critical for cattle to receive the intended benefits of a vaccine.

Record keeping

While it can be a daunting task, record keeping is key. In a large ranch with multiple breeding pastures, it's important to know which cows and bulls have been in each pasture. Ear tags and other identification systems are helpful to keep track of the location of bulls and cows.

"Managing trichomoniasis comes down to having a number of strategic management practices in place," concluded Dr. Davidson. "Be sure to work with a local veterinarian to tailor trich management protocols to your herd."

Draft GFI for Most Animal Antibiotics

A draft guidance covers dosage forms such as injectable or intramammary antibiotic products now available over the counter for use in beef and dairy cattle.

The FDA has released draft guidance for industry (GFI) #263, outlining a process for voluntarily bringing remaining approved animal drugs containing antimicrobials of human medical importance under the oversight of licensed veterinarians by changing the approved marketing status from over-thecounter (OTC) to prescription (Rx).

Earlier this year, the FDA indicated they would release this draft guidance as part of the agency's five-year plan for Supporting Antimicrobial Stewardship in Veterinary Settings. The action is intended to build on the earlier GFI 213, which eliminated "production" or "performance" claims from labels for medically important antibiotics and brought purchase of most medicated feeds under the Veterinary Feed Directive (VFD).

Once implemented, the new GFI would place administration of all dosage forms of approved medically important antimicrobials for all animal species under the supervision of a licensed veterinarian and only when necessary for the treatment, control or prevention of specific diseases. This





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would include dosage forms such as injectable or intramammary antibiotic products now available over the counter for use in beef and dairy cattle.

FDA will accept public comments on the draft guidance for 90 days, and subsequently will issue the final guidance, after which the agency plans a two-year implementation period.

In August, FDA published a summary report on VFD inspections and compliance. The draft GFI issued this week, on veterinary oversight for other dosage forms, was next on the schedule.

By the end of this year, FDA's Center for Veterinary Medicine (CVM) plans to update its list of "medically important" antimicrobials used in livestock, currently listed in GFI 152.

By September 2020, FDA/CVM plans to issue a draft strategy to ensure that all medically important antimicrobial drugs used in the feed or drinking water of food-producing animals have an appropriately targeted duration of use. Currently, the labels for some medications delivered in feed or water do not specify duration of use.

Antimicrobial Sales Rise

After two consecutive years of decline, domestic sales of antimicrobials for use in food-producing animals rose 9% in 2018 from the year before, FDA said in its annual report on stewardship of medically important antimicrobial drugs.

Still, 2018 is the second-lowest year since the first year of reporting in 2009. "The overall trend continues to indicate that ongoing efforts to support antimicrobial stewardship are having an impact," the agency said.

Amid efforts to slow antimicrobial resistance and preserve the drugs' effectiveness in fighting disease in both people and animals, sales in 2018 are down 21% since 2009 and down 38% since 2015, the peak year of sales and distribution, according to the 2018 Summary Report on Antimicrobials Sold or Distributed for Use in Food-Producing Animals.

USDA is also tracking the use of antibiotics, specifically in pork and beef. Earlier this year, the agency said its studies showed that 87.5% of feedlots and 95.5% of swine sites gave animals antimicrobials in feed or water or by injection in 2016.

Also this year, the US Poultry & Egg Association (USPOULTRY) released the industry's first-ever report on antimicrobial use on broiler chicken and turkey farms, which found that from 2013 to 2017, chickens receiving antimicrobials in the hatchery decreased from 93% to 17% and turkeys receiving antimicrobials in the hatchery fell from 96% to 41%.

NAMI Challenging California's Prop 12

The North American Meat Institute (NAMI) has filed a lawsuit challenging the constitutionality of California's Proposition 12, arguing the farm animal confinement initiative violates the commerce clause of the US Constitution.

NAMI said it opposes the law because it will hurt the nation's food value chain by significantly increasing costs for producers and consumers.

"If this unconstitutional law is allowed to stand, California will dictate farming practices across the nation. California's overreach creates an unworkable patchwork of differing state regulations that will make it impossible for the supply chain, from small farmers to your local grocer, to function," NAMI President and CEO Julie Anna Potts said in a press release.

Approved by California voters in November 2018, Proposition 12 sets specific space requirements for breeding pigs and veal calves. The law prohibits the sale in California of uncooked pork or veal from animals whose housing does not meet California's rules. It also prohibits the sale of meat from the offspring of those breeding pigs.

The lawsuit, filed in US District Court for the Central District of California, asks the court to issue a preliminary injunction to halt implementation of the law.

McDonald's Testing Plant-based Burger

McDonald's is conducting a 12-week test of a new plant-based burger called the P.L.T., which stands for "plant, lettuce, tomato." McDonald's has selected southwestern Ontario as the exclusive market for its global test, which will take place in 28 restaurants.

The P.L.T. is made with a Beyond Meat plantbased patty that has been crafted exclusively by McDonald's, for McDonald's, to deliver the iconic McDonald's taste customers know and love, the company said.

"McDonald's Canada has a proud legacy of innovating across our menu, and we're excited that Canadians will be the first in the world to try the P.L.T.," Anderson, a McDonald's spokesman, said. "We're eager to hear what our customers love about the P.L.T. to help McDonald's around the world better understand how a plant-based burger works in our restaurants."

The McDonald's P.L.T. features a plant-based patty with no artificial colors, artificial flavors or artificial preservatives. It will be priced at \$6.49 (Canadian) plus tax (\$4.90 U.S., plus tax).

ooking at Me? It's ok. Everybody Is. It's ok. Ever

2012 Across-Breed EPD Table, GPE Rep. 22, MARC, USDA * Major Continental Breeds — Simmental, Gelbvieh, Limousin Charolais

Trait	Simmental Rank vs. Major Continental Breeds*	Angus/Red Angus Rank vs. Major British Breeds
Marbling Score	First	Second
Carcass Weight	First	First
# Retail Product	Second	First
Weight Gain Feed Efficiency	First	Second
Weaning Weight	Second	First
Post Weaning Gain	Second	Second
Shear Force	First	First

"Crossbred steers with a **50:50 ratio of Continental European to British breed** inheritance are likely to produce a more **optimum** balance between carcass quality grade and yield grade than crossbred or straightbred steers that represent either 100% British breed, or 100% Continental European breeding.

- MARC GPE Progress Report No. 22, USDA

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South Dakota

Simmental Association

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2020

January 22	Sioux Empire Farm Show and Sale, Sioux Falls
February 8	Black Hills Stock Show & Sale, Rapid City
February 12	Watertown Winter Farm Show and Sale, Watertown

Junior Coordinator

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SK Smooth G21 SK Smooth Criminal E174 x Karla C24 ASA# 3537551 3/8 SM 5/8 AN CE: 8.3 BW: 2.9 WW: 84.6 YW: 136.5 ADG: 0.32 MCE: 6.1 MILK: 21.9 MWW: 64.2 STAY: 16 DOC: 13.4 CW: 43 YG: -0.1 MRB: 0.25 BF: -0.004 REA: 0.71 SHR: -0.14 API: 122 TI: 76.1



SK Loaded Up G35 W/C Loaded Up x ES D84 ASA# 3539428 PB SM CE: 10.5 BW: 1.6 WW: 70.6 YW: 105.8 ADG: 0.22 MCE: 4.3 MILK: 22.4 MWW: 57.7 STAY: 19.4 DOC: 11.6 CW: 36.2 YG: -0.48 MRB: -0.01 BF: -0.102 REA: 1.04 SHR: -0.27 API: 130.3 TI: 70.7



SK Carver G28 TKCC Carver 65C x Sadie B63 ASA# 3538050 3/4 SM 1/4 CS CE: 7.8 BW: 3.4 WW: 84.6 YW: 113.9 ADG: 0.18 MCE: 3.4 MILK: 20 MWW: 62.3 STAY: 13.8 DOC: 10.7 CW: 26.8 YG: -0.53 MBB: 0.17 BF: -0.1 REA: 1.09 SHB; -0.4 API; 125.8 TI: 80.3



SK Significant G36 WBF Significant B132 x Sadie W16 ASA# 3539429 PB SM CE: 12.1 BW: 1.4 WW: 76.5 YW: 117.5 ADG: 0.26 MCE: 7.3 MILK: 29.2 MWW: 67.5 STAY: 16.6 DOC: 19.4 CW: 38.2 YG: -0.55 MRB: 0.02 BF: -0.108 REA: 1.23 SHR: -0.51 API: 132.5 TI: 76.9



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 PB SM
 ASA# 2840223
 1/2 SM 1/2 AN

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Hooks Xpectation x HSF Majority Sept '18 Purebred Simmental Non-dilute Red
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CDI Ambition x Shear Force Sept '18 Purebred Simmental Non-dilute Red • Homo polled results pending



GW-WBF Substance x Final Answer x Shear Force Dec '18 5/8 SM 3/8 AN ET Homo Black
 Homo Polled



HSF Conquest 29Z x HH Perfect Timing x Bismarck Sept '18 3/8 SM 1/4 AR 1/4 HP 1/8 AN Hetero Black • Homo Polled results pending Outcross pedigree with IMF ratio of 135



Hoosier x High Roller x Autobahn Jan'19 Purebred Simmental FT Non-dilute Red
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WS All Aboard x Shear Force x ER Big Sky Dec'18 Purebred Simmental ET Non-dilute Red
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Questions, contact lgiess@simmgene.com for more information regarding this program.

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G618 2/17/19 5/8 Blood Innovator x Mr TR Hammer



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F369 2/12/18 Purebred Uno Mas x Step Up



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G454 1/13/19 5/8 Blood Wide Range x Tank



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INDUSTRY UPDATE

EHD Confirmed in Washington Cows

The Washington State Department of Agriculture has confirmed diagnosis of epizootic hemorrhagic disease (EHD) in four cows in eastern Washington. EHD primarily affects wild deer, but the vectorborne virus can cross over to cattle.

"Although EHD is seldom prevalent in cattle, we must show an abundance of caution and investigate each case due to the similarity of symptoms this disease has with the highly contagious and economically disastrous foot-and-mouth disease," says a Washington State Veterinarian.

Epizootic hemorrhagic disease virus (EHDV) belongs to the genus Orbivirus, family Reoviridae, according to a fact sheet from the Center for Food Safety and Public Health, Iowa State University (CFSPH). At least seven recognized serotypes of EHDV circulate among cervids worldwide.

EHD Outbreaks in cattle generally are milder than in deer, but can result in reduced productivity, lower milk yield, and occasional deaths.

Several species of midges from the Culicoides genus serve as biological vectors for the EHD virus, and with no vaccines available in the United States, insect control remains the best preventive measure against the disease. Supportive care is the only treatment for infected cows.

According to the CFSPH, signs of EHD can include: Fever, anorexia, lethargy, weakness, stiffness/ lameness, respiratory distress, severe and rapid edema of the head and neck, swelling of the mucous membranes of the oral cavity, swelling and hyperemia of the conjunctiva, ulcers and erosions in the oral cavity resulting in excessive salivation and nasal discharge, sometimes blood-tinged, diarrhea and dehydration, progressive abnormalities in blood clotting, with extensive hemorrhages in many tissues including the skin and gastrointestinal tract. Deaths are common during the acute stage of the disease. Surviving animals may have ulcers, erosions, scars and other damage to the lining of the rumen and omasum, resulting in prolonged lethargy, inappetence and emaciation. Breaks or rings in the hooves caused by growth interruptions can result in lameness, and in some cases, sloughing of the hoof wall or toe.

The Washington State Department of Agriculture reminds producers that signs in cattle such as excessive drooling, lethargy, lameness or oral and nasal lesions with ulceration, can resemble those for the more virulent and economically devastating foot-and-mouth disease.

Genome-Editing Hornless Trait

For the past two years, researchers at the University of California, Davis, have been studying six offspring of a dairy bull, genome-edited to prevent it from growing horns. This technology has been proposed as an alternative to dehorning.

UC Davis scientists have published their findings in the journal Nature Biotechnology. They report that none of the bull's offspring developed horns, as expected, and blood work and physical exams of the calves found they were all healthy. The researchers also sequenced the genomes of the calves and their parents and analyzed these genomic sequences, looking for any unexpected changes.

All data were shared with the US Food and Drug Administration. Analysis by FDA scientists revealed a fragment of bacterial DNA, used to deliver the hornless trait to the bull, had integrated alongside one of the two hornless genetic variants, or alleles, that were generated by genome editing in the bull. UC Davis researchers further validated this finding.

The study found that two calves inherited the naturally occurring hornless allele and four calves additionally inherited a fragment of bacterial DNA, known as a plasmid. Plasmid integration can be addressed by screening and selection, in this case, selecting the two offspring of the genome-edited hornless bull that inherited only the naturally occurring allele.

This type of screening is routinely done in plant breeding where genome editing frequently involves a step that includes a plasmid integration. The plasmid does not harm the animals, but the integration technically made the genome-edited bull a GMO, because it contained foreign DNA from another species, in this case a bacterial plasmid.

Since the original work in 2013, initiated by the Minnesota-based company Recombinetics, new methods have been developed that no longer use donor template plasmid or other extraneous DNA sequence to bring about introgression of the hornless allele.

Scientists did not observe any other unintended genomic alterations in the calves, and all animals remained healthy during the study period. Neither the bull, nor the calves, entered the food supply as per FDA guidance for genome-edited livestock.

ST



SAT @ 1pm(CST)....FEB 1, 2020 Decorah Sale Barn, Decorah, IA

Jeff: 641.330.6654 sprinsim@iowatelecom.net



G377 | ASA 3620254 | S: Erixon Bitten MGS: Zebulon CE 12 • WW 68 • YW 105 • API 140 • TI 75







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Trait	Simmental Rank vs. Major Continental Breeds	Angus/Red Angus Rank vs. Major British Breeds
Marbling Score	First	Second
Carcass Weight	First	First
Weight Gain Feed Efficiency	First	Second
Weaning Weight	Second	First
Post Weaning Gain	Second	Second

Across-Breed EPD Table, GPE Rep. 22, MARC, USDA

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Plan to join us for these events:

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- 12 noon **Viewing of Sale Cattle**
- 2 till 5 pm Tour of the Farm
- 4 till 6 pm Social Hour (Free Drinks & Appetizers)
- 4 pm

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- **Premium Beef Educational Panel** 6 pm
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BENDA RANCH Simmentals

Annual Production Sale Monday, February 10, 2020 - 1:00 PM

Kimball Livestock Exchange, Kimball, SD



JBS MIR Main Event 9G 1/2 SM BD: 3/16/19 TJ Main Event 503B x W/C United 956Y ASA# 3640664 WW Ratio: 110 Rank: 16/121 CE BW WW YW ADG MCE Milk MWW SAPI \$TI 13 .3 85 131 .29 6 25 68 133 84



JBS MR Red Moon 764.G PB SM BD: 2/10/19 WS Red Moon D76 x JBS Mr. Tanker 750A ASA# 3640766 WW Ratio: 115 Rank: 6/121 CE BW WW YW ADG MCE Milk MWW \$API \$TI 14 -.7 74 115 .26 9 31 68 137 79



JBS MR Night Watch 614G 3/4 SM BD: 3/10/19 W/C Night Watch 84E x WS Stepping Stone B44 ASA# 3640758 WW Ratio: 118 Rank: 3/121 CE BW WW YW ADG MCE Milk MWW \$API \$TI 15 -1.4 72 102 .19 8 29 65 144 78



 1/2
 SM
 BD: 2/12/19

 J Bar J Nightride
 225Z x KCF Bennett Absolute

 ASA#
 3640573
 WW Ratio: 113
 Rank: 9/121

 CE
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 15
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 21
 57
 160
 88



JBS MR Casino 701G

 5/8 SM BD: 3/5/19

 JBS Big Casino 336Y x B/R New Frontier 095

 ASA# 3640563
 WW Ratio: 116
 Rank: 4/121

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

 14
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 .21
 7
 17
 54
 137
 73



JBS MR Boulder 235G

5/8 SM BD: 3/6/19 CCR Boulder 1339A x ASR/GLS Pacesetter U862 ASA# 3640575 WW Ratio: 108 Rank: 25/121 CE BW WW YW ADG MCE Milk MWW \$API \$TI 14 -.8 69 107 .24 8 25 60 152 79

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WBF Decided D095	CE	BW	WW	YW	
ASA# 3113183	13	.6	70	109	
Homozygous Polled	MCE 6	Milk 27	MWW 62	CW 40.3	
	MB .09	REA .81	\$API 140	\$TI 75	

A different pedigree compared to most red genetics out there. His progeny in the upcoming sale may be the largest sired group we are offering. Most of his EPDs are well above the breed average with the bulk of those being in the top 30% or better.



ASA# 3471421	CE 10	BW 2.4	WW 82	YW 122	
	MCE 6		MWW 68		
	MB 14		\$API 126		

Thanks to Quandt Brothers for purchasing him as the top seller in our 2019 sale.



A REAL PROPERTY OF THE PARTY OF				
DCR Mr Finnigan F446	CE	BW	ww	YW
ASA# 3471286	11	2.4	81	134
Homozygous Polled	MCE	Milk	MWW	CW
	7	36	76	51.4
	MB	REA	\$API	\$TI
	.00	1.02	132	78

Thanks to Rust Mountain View Ranch for purchasing him as our second high-seller in our 2019 sale.



Springcreek Denali 21E ASA# 3467991	CE 6	BW 3.4	WW 80	YW 115	
Homozygous Polled and Homozygous Black by pedigree	MCE 7	Milk 25	MWW 65	CW 31	
	MB .06	REA .74	\$API 129	\$TI 75	

Our new junior herd sire, his first calf crop has impressed us. In Canada his Sire demanded \$170K, and his dam brought \$45K. He also was one of the top-selling lots of the day when he sold. It has been said by multiple breeders in Canada that his dam is one of the top 10 females in Canada.



WSM Wide Load 303B ASA# 3012688	CE 5	BW 1.1	ww 74	YW 105	
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EPDs as of 12.18.19

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OMF GOODYEAR G52 | SIRE: CCR COWBOY CUT 5048Z MGS: OMF COMMANDER Y69 | 3/4 SM



FIVE STAR GEN-X G4 | SIRE: KOCH BIG TIMBER 685D MGS: MR NLC UPGRADE U8676 | PB SM



OMF GENEVA G6 | SIRE: MSR TENACITY 3733A MGS: GW PREMIUM BEEF 021TS | 5/8 SM



DKSM GRACE 3G | SIRE: CCR BOULDER 1339A MGS: TJ COWBOY UP 529B | 3/4 SM



OMF FACE TIME F69 | SIRE: W/C LOAD LIMIT 221B MGS: MR NLC UPGRADE U8676 | 5/8 SM Sells Safe In Calf to W/C Executive Order 8543B

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7 5.1 95 151 .35 6 30 77 \$API: 126 \$TI: 81 Trax Red River E84 x MRL Mr. Pro Bowl 138X PB – Homo Polled – Non-Diluter – Adj. WW: 835



3PDs as of 12.16.19

7 3.1 83 121 .24 3 24 64 \$API: 118 \$TI:74 MRL Bomber 28E x BBS Miss Cain C5 Top 5% of breed in WW; top 10% for YW



2 5.8 104 168 .40 5 23 75 \$API: 127 \$TI: 84 LFE The Riddler 323B x MLC Mr Justice W744 PB – Homo Polled – Homo Black – Adj. WW: 814



9 2.7 83 123 .25 7 22 62 \$API: 121 \$TI: 74 MRL Bomber 28E x OLF Tgr Lady B11 Top 5% in WW; top 10% in YW; Top 20% in ADG

SALE DAY PHONE: 701-776-6393

Reference Sires: and Slam KS Peyton T287

Captain Morgan 11Z

MRL Bomber

GLS Integrate

MRL Northwestern

Hook's Beacon

KWA Riddler, Mr GD

Harvey Red Summit

Hometown, Zenith

Springcreek Grand Slam LFE The Riddler 323B Kuntz Sheriff 8A WFL Westcott 24C CCR Cowboy Cut 402B RF Red Absolute 307A Springcreek Liner 52D MRL Elmo 6E TNT Tundra D482 Hooks Bozeman 8B



4 4.9 92 144 .33 4 30 76 \$API: 137 \$TI: 86 CDI Hometown 246A x MRL Ringman 112Z PB – Homo Polled – Non-diluter – Adj. WW: 743



17 -1.9 85 124 .24 12 23 64 \$API: 166 \$TI: 92 Hook's Beacon 56B x Bell Miss Cowboy Cut E32 Top 1% in MCE; top 2% CE and BW; top 3% WW



7 4.8 98 128 .25 6 29 72 \$API: 120 \$TI 75 BBS Triple Play E228 x BBS Meatball Z19 PB – Homo Polled – Adj. WW: 845



11 .6 82 127 .28 8 25 65 \$API: 138 \$TI: 80 KWA Riddler 201D x Bell Miss True Justice E5 Top 4% YW; top 10% WW and ADG; top 15% MCE;

Many bulls are being tested for Homozygous Polled and Black. View our catalog and videos of each lot at: <u>www.DVAuction.com</u>





Adams, North Dakota 58210





29th Annual Production Sale February 12, 2020



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TJ ROOSEVELT 366E x MR NLC UPGRADE U8676

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Print name of Authorized Representative		uthorized Representative
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January 2021	Dec 4	Dec 11	Dec 18	Jan 11					
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<u>ST</u>



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ASA#: 2884737

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\$API: 105

\$TI: 57

EPDs: CE: 10

CCR Anchor 9071B

\$API: 130

W/C BF Innocent Man 174A

\$TI: 66

EPDs: CE: 14

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ASA#: 3125337 EPDs: CE: 11 \$API: 125 \$TI: 83

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ASA#· 3299037 EPDs: CE: 13 \$API: 111 \$TI: 67

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ASA# 2785178 EPDs: CE: 11 \$API: 149 \$TI: 82

W/C Red Revolver 8443C



ASA#: 3041173 EPDs: CE: 18 \$API: 115 \$TI: 54

Yardley Utah Y361



ASA#: 2641894 EPDs: CE: 11 \$API: 103 \$TI: 59

W/C United 956Y



A LA

ASA#: 2614725 EPDs: CE: 11 \$API: 118 \$TI: 86

GLS/JRB Cash Flow 163C



ASA#: 3044489 EPDs: CE: 5 \$API: 108 \$TI: 67

LCRR THR Mtn Pass 6219D



ASA#: 3117102 EPDs: CE: 15 \$API: 166 \$TI: 88



Δ۵Δ#

3336314

EPDs as of 12.9.19

EPDs: CE: 10 \$API: 127 \$TI: 64



ASA#: 3222772 EPDs: CE: 11 \$API: 126 \$TI: 81



EPDs: CE: 18 \$API: 167 \$TI: 79









ASA#: 3118596 EPDs: CE: 14 \$API: 126 \$TI: 70



ASA#: 3083878 EPDs: CE: 11 \$API: 88 \$TI: 59



ASA#: 2937803

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CCR Masterlink 9054C



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Virginia



60 BULLS AND 25 BRED HEIFERS SELL



G061 // ASA 3592237 // PB SM

TOMO DE	Aca, non	IN TOLLL	U CLINS DI	IDLAD 4	OJD DOLL	•
CE	BW	WW	YW	MCE	MILK	MWW
9	1.9	78.7	120.7	3.5	27.2	66.5
DOC	CW	YG	MARB	REA	API	TI
18.4	32.1	-0.42	0.26	0.83	137.9	82.2



G042 // ASA 3592220 // PB SM RED, HOMO POLLED HOOK'S XPECTATION 36X BULL

CE	BW	WW	YW	MCE	MILK	MWW
15.4	-0.8	73.4	108.1	7.6	33.3	70.0
DOC	CW	YG	MARB	REA	API	TI
13.8	33.6	-0.37	0.27	0.82	157.1	83.4



G018 // ASA 3592201 // 1/2 SM 1/2 AN HOMO BLACK, HOMO POLLED BARSTOW BANKROLL B73 BULL. MCE MILK MWW CE BW WW YW 13.1 -16 613 100 3 29.5 60.1 REA MARE API DOC CW YG TI 38.2 22.1 -0.11 0.28 0.45 1317 716



G023 // ASA 3592204 // 1/2 SM 1/2 AN HOMO BLACK, HOMO POLLED JC JOURNEY 610E BULL. CE BW WW YW MCE MILK 97 0.6 647 107.4 40 77.1 MARB REA DOC API CW YG

0.34

0.64

-0.21

34.8

MWW

59.5

72.1

1293



FARMS

March 28, 2020

1:00 pm • Hanover, IL

G019 // ASA 3592202 // PB SM HETERO BLACK, POLLED WS HIGH STAKES W115 BULL.

CE	BW	WW	YW	MCE	MILK	MWW
16.9	-3.2	63	98.8	8.8	36.2	67.7
DOC	CW	YG	MARB	REA	API	TI
17.2	41.7	-0.46	-0.07	0.85	135	72.8



G122 // ASA 3592295 // 1/2 SM 1/2 AN BLACK, POLLED WBF DEEP POCKETS D092 BULL.

CE	8W	WW	YW	MCE	MILK	MWW
10.8	1.4	65.8	104.1	6.3	23	55.9
DOC	CW	YG	MARB	REA	API	TI
22.3	40.7	-0.2	0.2	0.78	120.7	68

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			// PB SM ICANT B13			
CE	8W	WW 62.9	YW	MCE	MILK	MWW
15.5	-0.8		97.5	8.3	27.6	59
DOC 20.1	CW	YG	MARB	REA	API	11
	34.8	-0.27	0.38	0.66	157.1	79



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GSC GCCO Dew North 102C Duracell x Dew It Right ASA# 3141837 • Homo black • Homo polled Calving ease combined with tremendous structural soundness! 2018 Fort Worth Champion!



Erixon Bitten 203A

NCB Cobra 47Y x BMD Miss BLK Ice Dancer ASA# 2966135 • Hetero black • Homo polled Bitten offers a shortened gestation length and superior calf vigor. Tons of hair at birth with excellent growth, capacity and a genetic profile in the top 4% of the breed. His sire, NCB Cobra is the 2018 Canadian sire-of-the-year with 26 progeny averaging \$12,100.



KCC1 Exclusive 116E Hammer x Entourage ASA# 3306064 • Homo black • Homo polled \$240,000 valuation high-seller Fort Worth! Lead bull in Kearns' 2018 NWSS Champion Pen!



Longs Pay the Man E16 Pays to Believe x Shear Pleasure ASA# 3327014 • Homo black • Homo polled Great-built, stout, double-homozygous Pays to Believe son!



STF Crimson Tide DZ87 CDI Rimrock x STF Much More ASA# 3274952 Exciting Red Genetics both phenotypically and genotypically!



Rocking P Die Hard C060 Quantum Leap x Mo Magic ASA# 3102430 • Homo black • Homo polled Die Hard is ultra sound and was the 2018 Fort Worth Champion % Bull as well as the Reserve Champion at the 2017 NAILE & American Royal! 3/4 blood.



RFG/K-LER Elevation 727E RS Elevate x MCM Top Grade ASA# 3268058 • Homo black • Homo polled High-seller at 2018 NWSS "The One" Bull Sale. Awesome outcross and EPD profile with excellent outline!



TNGL Imprint D989 TNGL Track On x JF Shock and Awe ASA# 3173557 • Homo black • Homo polled Division Champ at 2016 NAILE & 2017 NWSS! Use his impeccable structure and great design with outcross pedigree!



LLSF Vantage Point F398 CCR Anchor x Uprising x Quantum Leap's Dam ASA# 3492381 • Hetero Black • Homo Polled 3/4 Lead-off Bull in the 2019 NWSS Champion % for Lee.



VOLK Backdraft CC F810 W/C Executive Order 8543B x JS Flatout Flirty ASA# 3528566 • Red • Polled



W/C Double Down 5014E Executive Order X Yardley Utah ASA# 3336150 • Homo black • Homo polled

Featured at the 2018 Werning Sale, selling to Steve Hicks, IN, owner of Relentless. Expect Double Down to transmit a bold rib with extension through his front 1/3.



B C R Perfect Vision F022 Mr CCF 20-20 x HSF Callie D613 ASA# 3516009 • Black • Homo Polled Perfect Vision was the high-selling bull at the 2019 Cowtown Classic in Fort Worth at \$24,500 and went on to become the Reserve Champion % Bull! He has excellent structure and profile!



WRS Emergent E715 CCR Anchor x Remington Lock N Load 54U ASA# 3280609 • Hetero Black • Homo Polled 3/4 Outcross to Dream On and Upgrade



VCL Foresight 17F Mr CCF 20-20 x Profit ASA# 3506652 • Black • Polled Full brother to Sinclair's multi-champion \$77,500 heifer in IN.



WMCC Mayhem 810 F Mr CCF 20-20 x Hammer ASA# 3425186 • Homo Black • Homo Polled Wilie Morris' all-time performance leader!



Mr CCF 20-20 100B Mr CCF Vision x HTP SVF Dew The Stroke ASA# 2964446 • Homo black • Homo polled 20-20 has sired lots of high sellers for his owner group of Cooper, Hartman and Polzin. They are stout-made and growthy with loads of eye appeal!



KWA Law Maker 59C CDI Authority x KWA Red Rock ASA# 3223767 Producing highly desirable, stout progeny!



KSIG Steelin His Style 6D Silveiras Style x Steel Force x SS Babys Breath ASA# 3130639 • Homo black • Homo polled 1/2 SimAngus™, calving ease from the 2012 American Royal Champion!

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API	TI	CE	BW	WW	YW	MCE	MILK	STAY	DOC	MARB
152	80	15	-0.7	69	108	8	23	18	15	0.5
5%	10%	20%	25%	35%	30%	20%	40%	20%	10%	15%



GW BREAKTHRU 045C x GW MISS MARL MAN 898E HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
16	-1.4	64	103	10	31	63
DOC	CW	YG	MARB	REA	API	TI
11	22	-0.12	0.56	0.39	163	80



GW SPARKY 369E x GW MISS DUE NORTH 837E BLACK POLLED 5/8 SM 5/16 AN 1/16 AR

CE	BW	WW	YW	MCE	MILK	MWW
19	-3.9	64	101	10	23	55
DOC	CW	YG	MARB	REA	API	TI
15	24	-0.26	0.55	0.81	165	83



GW PREDOMINATE 848A x GW MISS DUE NORTH 751C HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE 16	BW -0.5	WW 76	YW 118	MCE 8	MILK 28	MWW 66
DOC	CW	YG	MARB	REA	API	TI
18	33	-0.19	0.51	0.64	155	85



GW QUANTUM LEAP 117B x GW MISS PD 770Y 445A HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
16	0.4	79	122	10	20	59
DOC	CW	YG	MARB	REA	API	TI
16	17	-0.19	0.6	0.4	169	87



GW MOVIN ON 183C x GW MISS DIRCT DRIVE 932E RED HOMO POLLED 1/2 SM 3/8 AR 1/8 AN

CE	BW	WW	YW	MCE	MILK	MWW
16	-1.2	80	125	8	14	54
DOC	CW	YG	MARB	REA	API	TI
13	40	-0.28	0.4	0.86	151	85



TFS DUE NORTH 2659Z x GW MISS SPARTAN 703E HETERO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
14	-1.1	67	101	8	16	49
DOC	CW	YG	MARB	REA	API	TI
17	28	-0.15	0.63	0.62	150	81

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