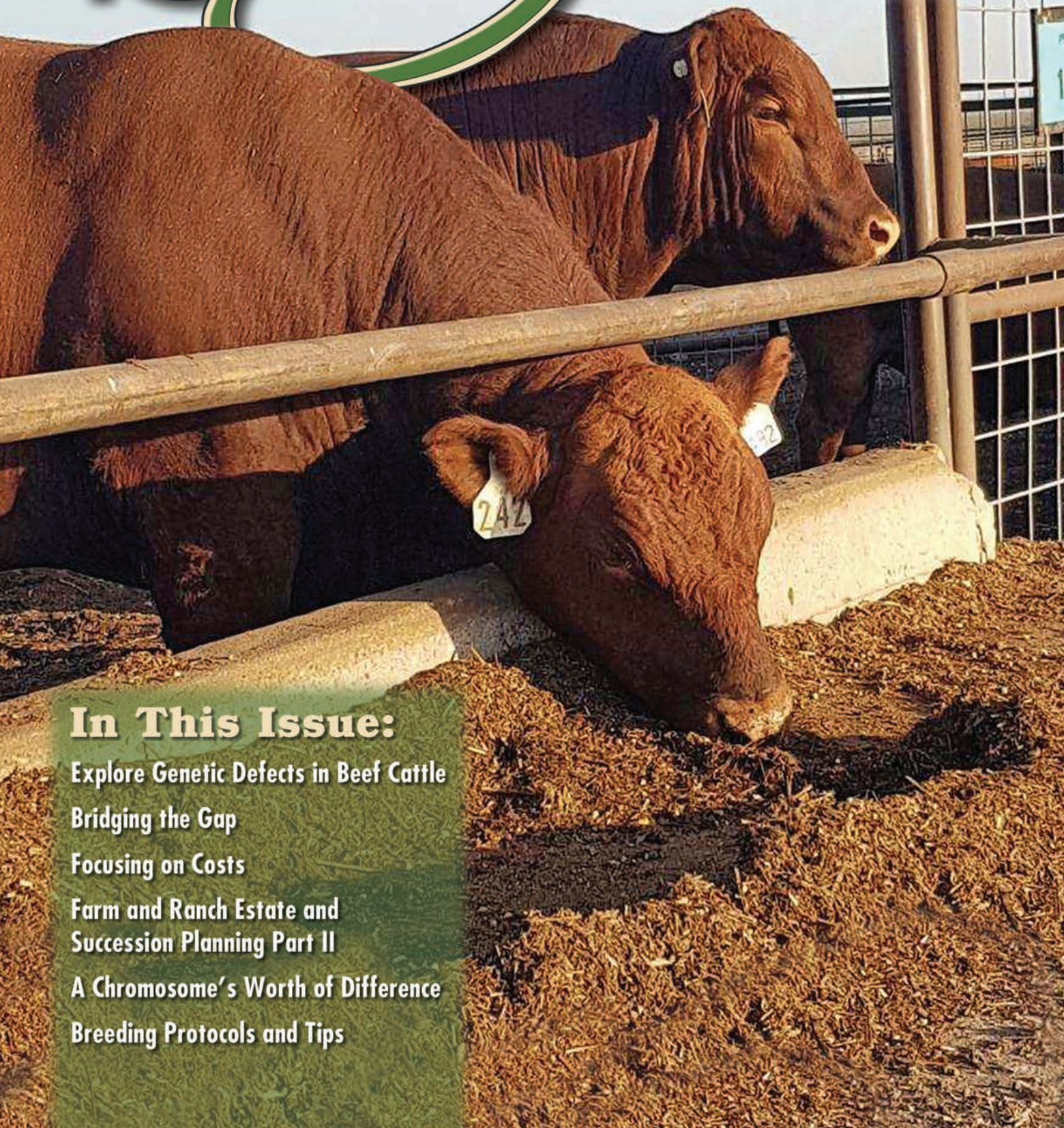


Volume 29 • Number 2

March 2021

SIM TALK

Linking SimGenetics to Commercial Cattle



In This Issue:

Explore Genetic Defects in Beef Cattle

Bridging the Gap

Focusing on Costs

Farm and Ranch Estate and
Succession Planning Part II

A Chromosome's Worth of Difference

Breeding Protocols and Tips

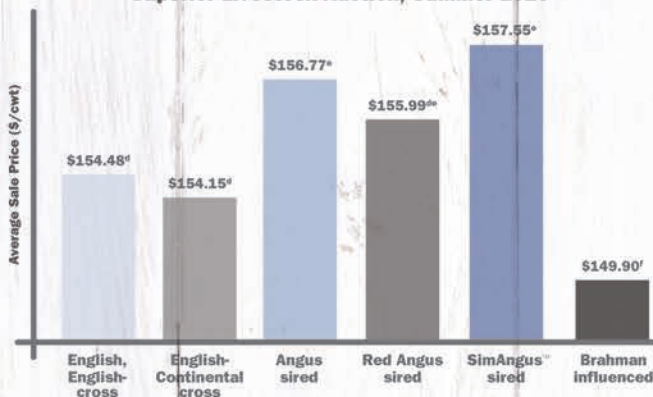
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^a For lots of 50 head or more. ^b Kansas State University, December 2020, Superior Livestock Auction data analysis of 3,280 lots, 394,900 head of beef calves marketed during summer 2020. (P<.0001)
^c Lots that qualified for breed-related programs were excluded from the model due to potential confounding effects with sire breed analysis and, for many, few lots in the data.
^{d, e, f} Means without a common superscript differ (P<.05). Lots of calves in breed-identified groups were sired by bulls from the respective breeds and out of dams with no Brahman influence.

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VOLUME 29 – NO. 2
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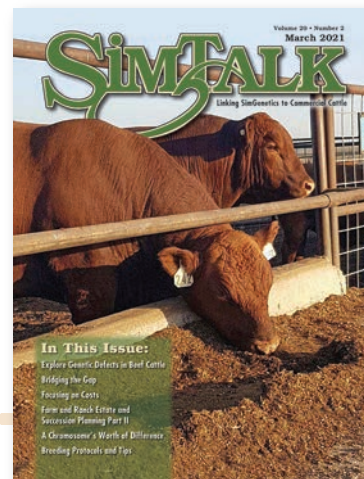
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SimAngus™ bulls built to improve efficiency of the cow herd and the commercial producers' bottom line.
Photo by Ben Spitzer at the R.A. Brown Ranch, Throckmorton, TX.



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.53	.63	.58	.59	.24	.16	.29	.26	.49	.49	.36	.38	.33	.46		
35	65	15	20	20	1	1	50	1	20	95	25	99	60	25	15



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13.3	-0.2	84.6	133.3	8	5.1	47.4	17.9	11.7	29.4	-.47	-.01	-.049	1.36	136.6	80.1
.84	.94	.92	.91	.77	.80	.84	.65	.61	.83	.62	.78	.78	.81		
40	40	20	15	30	99	99	15	55	65	3	99	50	1	35	40



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14.7	-0.8	94.8	153.1	9.5	20.8	68.2	17.6	13.3	42.2	-.30	.36	-.028	1.14	163.3	97.5
.61	.78	.73	.71	.32	.24	.36	.31	.46	.55	.43	.49	.46	.53		
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Jackie Atkins, Ph.D.

Spring feels like a long way off while I write but it will be here before we know it. Spring is a period of change and new beginnings. Many of you have fresh calves on the ground, and are thinking of the next round of genetic decisions with bull sale season nearing its end and spring breeding around the corner. The idea of new beginnings

is a welcome concept after the trials of the last year. Certainly with the hope of COVID-19 vaccinations, we are optimistic about finding the next new normal routine.

This issue of *SimTalk* offers a variety of information to help you navigate your next decisions. This issue we hear from leading experts like Dr. Nevil Speer on beef enterprise economics and the large role expenses play in profit margins, Ryan Goodman writes on the unique opportunity to connect with beef consumers now, Cari Rincker, Esq. summarizes a survey about transfer of the farm/ranch

to the next generation, the latest synchronization protocols are included from the Beef Reproduction Task Force, and Sean McGrath walks us through some basics of inheritance and genetics. We dive into genetic defects with Dr. David Steffen, a veterinary pathologist at the University of Nebraska, Lincoln, exploring why defects matter for commercial and registered herds alike.

One unwelcome change for us at ASA Publication is saying goodbye to a trusted colleague and contributor, Dr. Rachel Endecott. Rachel is heading into a new era for herself being more available at their family ranch and starting a consulting business, named Grey Horse Consulting. Thankfully, although Rachel is no longer a full-time employee with us, she has agreed to continue consulting for ASA and will grace us with her raucous laughter, salty one-liners, and supreme problem-solving skills. As sad as I was to see Rachel move away from the daily operations of ASA and ASA Publications, I am happy for her in her new adventure.

I hope this finds you facing a promising year of new beginnings and opportunities.

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8 2.9 77 119 3 21 59 API 124 TI 72



H875

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THR 8522F x GFI Magnum K52
11 1.2 77 119 6 25 63 API 134 TI 78



H477

3/4 SM 1/4 AN / ASA# 3836613
KBHR Wentz x TNT Tanker
11 1.2 85 127 7 21 63 API 117 TI 74



H456

5/8 SM 3/8 AN / ASA# 3836602
Hook's Eastwood x LCHMN Bright Light
13 -0.1 78 118 9 23 62 API 120 TI 75



H706

5/8 SM 3/8 AN / ASA# 3836591
Hook's Eastwood x Rousey Gold Strike
13 0.5 85 124 6 16 58 API 119 TI 78

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CED	BW	WW	YW	MILK	REA	MARB	TI	API
13	1.7	95	138	27	0.88	0.36	89	147



H012 | 2/21/20 | Offered by Arrow H Cattle

3/4 SM | CCR BOULDER 1339A x MR CCF VISION

CED	BW	WW	YW	MILK	REA	MARB	TI	API
14	-0.8	68	100	23	0.83	0.34	76	135



H010 | 2/16/20 | Offered by Arrow H Cattle

SIMANGUS™ | TEX PLAYBOOK 5437 x STF DOMINANCE T171

CED	BW	WW	YW	MILK	REA	MARB	TI	API
15	0.1	68	106	20	0.25	0.32	73	132



H012 | 1/25/10 | Offered by Kaser Brothers

PB SM | IR IMPERIAL D948 x WS EXECUTIVE D5

CED	BW	WW	YW	MILK	REA	MARB	TI	API
15	-2.0	71	106	24	0.89	0.45	87	161



H002 | 1/30/20 | Offered by Kaser Brothers

PB SM | WS ALL ABOARD B80 x KS RENO A962

CED	BW	WW	YW	MILK	REA	MARB	TI	API
15	-0.2	98	146	23	1.27	0.26	96	144



9H | 2/12/20 | Offered by Ludwig Simmentals

3/8 SM | SAV BRUISER 9164 x W/C UNITED 956Y

CED	BW	WW	YW	MILK	REA	MARB	TI	API
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Focusing on Costs



By Nevil Speer, Ph.D., MBA

Cow-calf producers who manage costs are far better positioned to navigate uncertainty.

My previous column ended with the following observation, "...the new year represents an opportunity time to assess the how-and-why of decision making within the operation and, if necessary, hit the reset button." For every operation, the most important place to start in that process is on the cost side of the business.

It's a critical course-of-action that's best exemplified with some review of enterprise analyses from the Kansas Farm Management Association (KFMA). The program is one of the largest, and long-running programs in the country with dependable and consistent documentation from year-to-year. It is also especially useful to the beef industry, being comprised of mostly mid-size operations.

For all types of farming enterprises, KFMA categorizes operations into thirds (top, middle, and bottom, respec-

tively). That ultimately leads to a useful breakdown of operational performance across each of the groups.

Conventional wisdom generally links revenue to profit. That's not surprising. Marketing is a big, and easily measurable event for most commercial operations; instinctively we believe a bigger check automatically equates to being more profitable. While marketing is important to business success, it's not really a profitability difference maker.

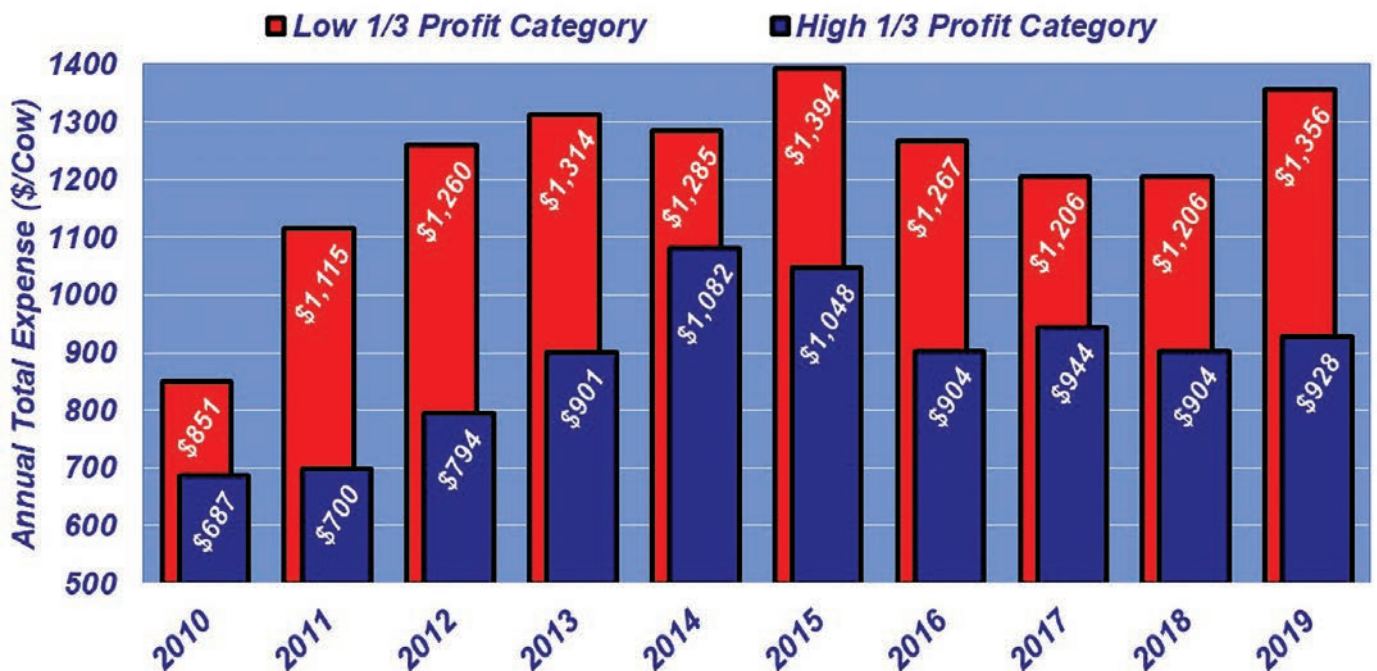
For example, during the past decade KFMA's top-profit group marketed calves for \$3.50/cwt more and were 24 pounds heavier versus the bottom group. The average revenue difference per calf over 10 years between the top and bottom group being only \$60/head.

The real difference comes on the cost side. The broader story being operations in the top tier arrive there by focusing more on the everyday work of reducing costs. Between 2010 and 2019 the average cost per cow was \$890 vs. \$1,225 for the top and bottom profit groups, respectively. In other words, during the past decade there is a \$335 per cow per year difference between the two groups.

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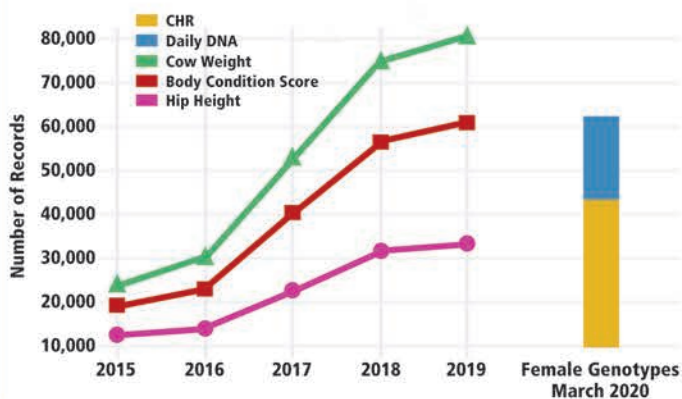
Annual Total Expense / Cow (\$/head) by Profit Category (Low vs High)

Adapted from Kansas Farm Management Association Enterprise Summary



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Focusing on Costs

CONTINUED FROM PAGE 8

What's more, more than half of that difference is explained by feed costs. The most profitable operations saved nearly \$175/head on the feed side versus the bottom-third of operations. Reinforcing the importance of cost management, note those savings equate to nearly three times the difference in marketing revenue (\$60 per head) mentioned above.

Most important in all this are the long-run, total-return ramifications. During the past 10 years, the top third of operations averaged a positive return to management of around \$60 per cow. Conversely, the bottom tier generated a negative return of roughly \$540 per cow. A whopping \$600 per cow difference!

Now consider the average herd size for the bottom-third operations is around 100 cows — that means a negative return of \$54,000 annually — or a loss of nearly \$540,000 for the decade. Meanwhile, given an equal number of cows, high-profit operations generate a small, albeit positive, return of \$60,000. Bottomline, those operations have a \$600,000 return-to-management advantage versus the low-profit peers.

KFMA summarizes the principles this way: “High profit operations had a cost advantage in every cost category

compared to the low-profit operations.” Most important, KFMA explains that, “... while both production (weight) and price do impact profit, they are much less important in explaining differences between producers than costs.”

One final observation when it comes to cost management. Last year at this time we witnessed the beginning of COVID-19's market disruption. With that in mind, one of my favorite quotes comes from Stanford University Professor Scott Sagan: “Things that have never happened before happen all the time.” This discussion becomes especially important amidst the ever-present risk of some other market turbulence going forward. To that end, cost management is the most important strategic component to buffer against those unexpected events — and help ensure positive returns over the long run.

About the Author: *Nevil Speer is based in Bowling Green, KY. and serves as director of industry relations for Where Food Comes From (WFCF). The views and opinions expressed herein do not necessarily reflect those of WFCF or its shareholders. He can be reached at nspeer@wherefoodcomesfrom.com.*

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0252H 3/4 SM 1/4 AN \$API 161 \$TI 82
GW MOUNTAIN DUE 373C son. Dam's PAP 43.



0420H 1/2 SM 1/2 AN \$API 162 \$TI 94
IR CAPITALIST E041 son. Dam's PAP 39.



0404H 5/8 SM 3/8 AN \$API 165 \$TI 62
IR CAPITALIST E041 son. Dam's PAP 39.



0243H 5/8 SM 3/8 AN \$API 147 \$TI 84
GW MOUNTAIN DUE 373C son. Dam's PAP 39.



0476H 5/8 SM 3/8 AN \$API 139 \$TI 87
LCRR THR MTN PASS 6219D son. Dam's PAP 35.

SIRE GROUPS INCLUDE:

GW Mountain Due 373C - ASA 3012725

LCRR THR Mountain Pass 6219D - ASA 3117102

Hook's Frontline 40F - ASA 3403352

IR Capitalist E041 - ASA 3344847

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THR MOUNTAIN TIME 8441F son. Dam's PAP 39.



0484H 5/8 SM 3/8 AN \$API 174 \$TI 98.5
THR MOUNTAIN TIME 8441F son. Dam's PAP 42.



0510H 5/8 SM 3/8 AN \$API 154.3 \$TI 87.9
GW NORTHERNER 454F son. Dam's PAP 41.



0014 PB SM \$API 147.4 \$TI 85.9
HOOK'S FRONTLINE 40F son. Dam's PAP 41.



0519H 5/8 SM 3/8 AN \$API 131 \$TI 74
CLRS Dakota 427D son. Dam's PAP 39.



0481H 5/8 SM 3/8 AN \$API 152.5 \$TI 85.5
LCRR THR MTN PASS 6219D son. Dam's PAP 36.

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Exploring Genetic Defects in Beef Cattle

By Lilly Platts



Dr. David Steffen has dedicated his career in veterinary medicine to studying and identifying genetic conditions in beef cattle. His work has been instrumental in identifying the majority of the defects ASA tracks.

Genetic conditions emerged as an economic concern in beef cattle as the species was domesticated, and as intense selection for specific traits became prevalent. Today, the recognition and emergence of recessive genetic defects is fairly common, and with advancements in genetic technology, identification and management has become quite simple. Dr. David Steffen has been involved with the identification of the majority of emergent genetic defects in beef cattle characterized in the last three decades, including those affecting Simmental-cross cattle.

Dr. Steffen earned his Doctor of Veterinary Medicine, followed by a Ph.D. in pathology and bovine genetics under the direction of Dr. Horst Leipold at Kansas State University. Dr. Steffen started his academic career at North Dakota State University as a diagnostic pathologist and assistant professor. During this time he became board certified in anatomic pathology by the American College of Veterinary Pathologists. In 1995, he returned to the University of Nebraska, Lincoln, where he did his pre-veterinary studies. Today he is a diagnostic pathologist and professor at the Nebraska Veterinary Diagnostic Center. He examines tissues for diseases across all species and researches adverse genetic and congenital conditions in cattle. His research is focused on determining if an issue is inherited or due to environmental factors, and is an expert in determining if an issue is of concern. He works to establish phenotypic descriptions of emergent disease and collaborates with molecular geneticists to develop tests which can offer long-term solutions for beef cattle breeders.

What Distinguishes a Genetic Defect?

One of the most important distinctions that must be made whenever phenotypic abnormality is observed is if it is inherited (genetic defect), or due to environmental factors. Dr. Steffen explains, "The big distinction we need to be aware of is a genetic defect versus a congenital defect. That's important because a lot of reports are just about congenital defects, which just means present at birth. All congenital defects aren't genetic, and some genetic defects aren't congenital."

There are a large number of environmental factors that can cause abnormalities in cattle, just like in humans. Vitamin A deficiency, viruses, fever in females during fetal development, and toxic plants are just a few common things that can cause a calf to be born exhibiting an abnormality, and Dr. Steffen estimates that at least 90% of the cases he sees end up being attributed to something other than a genetic defect. This makes it even more important for breeders to be vigilant about reporting abnormalities — an environmental issue and a genetic condition could present similar phenotypes, which may lead a producer to simply chalk the issue up to a fluke and disregard it when in fact, it could be a genetic defect. Alternatively, a producer could wrongly cull a good sire for an environmental effect noted in offspring. In commercial herds, Dr. Steffen sees a lot of cases where the producer will wait until there are multiple abnormal calves to report anything, which ends up making a diagnosis more difficult. Even in a commercial herd with few pedigree records, these reports can be extremely helpful in identifying defects and controlling disease.

By definition, a genetic defect is a mutation that results in an allele with an undesirable phenotype (disease or trait). When a mutation results in a physical or developmental issue that is deadly or causes extreme loss in function, it is classified as a genetic defect. Dr. Steffen explains that when he first started working with genetic defects, a sire was identified as a carrier if he was parent verified to two affected offspring. This could have major financial implications, as normal non-carrier offspring of the sire could not be distinguished by phenotype. Today, identifying carriers is still extremely important, but the affordability, speed, and availability of testing makes it much easier to weigh the benefits and consequences of continuing to breed an animal that carries a defect. Genetic testing allows producers to retain the favorable characteristics of the pedigree, but to precisely remove the deleterious gene. Technology allows research to often determine the cause in as little as six months if breeders cooperate by reporting and sampling affected calves, sires, dams and half siblings for sequencing.

A genetic defect is a mutation that results in an allele with an undesirable phenotype

When Did Defects Become a Problem?

Dwarfism in Hereford cattle is a classic story of a genetic defect in beef cattle, as well as an example of how difficult it was to identify the cause and eliminate the pedigrees that were causing the issue. Dr. Steffen's grandfather raised registered Herefords and experienced this first-hand. Dwarfism became an issue just over 70 years ago, and in one case, 25% of a California Hereford breeder's herd showed visible signs of the defect. The only way to eliminate the issue was to remove any animal suspected of carrying the gene, purely based on observation and what was known of pedigree relations. This took years, and the breeder essentially had to start over with his

CONTINUED ON PAGE 18

What Defects Does ASA Track?

Arthrogryposis Multiplex (AM):

Known as “Curly Calf Syndrome,” AM results in stillborn calves small in size with diminished muscling, bent limbs, and twisted spines.

Recessive, lethal, affecting Angus and Angus-influenced cattle.

Contractual Arachnodactyly (CA):

Also known as fawn calf syndrome, the disorder affects the connective tissue of muscles, leading to contraction of the upper limb (most obvious in the hind limbs), and looseness of the joints of the lower limbs.

Recessive, not lethal, Angus and Angus-influenced cattle.

Development Duplication (DD):

Affected calves frequently (but not always) develop extra body parts, often limbs (most commonly, extra front legs), a condition called polymelia. Some animals with two copies of DD may have no outward sign of this trait.



Recessive, not lethal, Angus and Angus-influenced cattle.

Neuropathic Hydrocephalus (NH):

Also called “water head,” affected calves are born dead with an extremely large cranium, with little or no brain material or spinal cord.



Recessive, lethal, affecting Angus and Angus-influenced cattle.

Osteopetrosis (OS):

Known as marble-bone, affected calves are frequently aborted 10 to 30 days early with short lower jaw and missing bone marrow.

Recessive, lethal, Red Angus- and some Angus-derived cattle.

Pulmonary Hypoplasia with Anasarca (PHA):

PHA-affected calves are born dead with underdeveloped lungs (pulmonary hypoplasia) and swelling caused by excessive fluid retention (anasarca).



Recessive, lethal, Shorthorn-, Maine-Anjou-, Chianina-, and Dexter-derived cattle.

Tibial Hemimelia (TH):

Calves are born with severe deformities including twisted rear legs (possibly missing part or all of bones), with fused joints, large abdominal hernias and/or skull deformities.



Recessive, lethal

(sometimes live at birth but unable to survive long), Shorthorn-, Maine-Anjou-, and Chianina-derived cattle.



Dwarfism is commonly associated with Hereford cattle, but can also be found in other breeds.

What to do if you observe an abnormality:

- Call ASA’s DNA department as soon as possible.
- In the meantime, take photographs that show the abnormality from as many angles as possible.
- Fill out the abnormality report available at simmental.org.
- Each case is unique, and ASA will work with each individual, and colleagues, to determine the next steps.

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BULL POWER



TJ FLAT IRON 259G

3582543 1/2 SM 1/2 AN

Homozygous Black, Homozygous Polled

SIRE: WERNER FLAT TOP 4136

DAM: TJ 33Y

MGS: RCR STETSON T17

Wonderful heifer bull candidate, who will transmit add body and sheer power to his progeny. TJ Flat Iron was our top selling SimAngus™ bull in our 2020 sale and early calf reports have been remarkable. Use his widely outcross pedigree to increase calving ease and maternal traits while not sacrificing phenotype.

CE	BW	WW	YW	MCE	MILK	STAY	DOC	CW	YG	MARB	REA	API	TI
20.4	-2.9	65.2	112.5	12.6	37.7	16.5	9.0	26.4	-0.03	0.68	0.38	167.3	87.0
1%	10%	85%	55%	1%	1%	30%	85%	75%	95%	5%	95%	3%	15%

MR SR HIGHLIFE G1609

3568376 PB SM

Homozygous Black, Homozygous Polled

SIRE: KBHR HIGH ROAD E283

DAM: MISS SR D1609

MGS: JBS BIG CASINO 336Y

Highlife will add extra performance and growth to his progeny and studies with value from CE all the way to his profit indexes. His mating flexibility and look should make him your go to baldie purebred in the upcoming breeding season.



CE	BW	WW	YW	MCE	MILK	STAY	DOC	CW	YG	MARB	REA	API	TI
15.3	-0.3	96.8	147.2	9.0	24.1	19.5	14.0	41.4	-0.49	0.21	1.09	158.9	95.0
10%	15%	2%	3%	10%	45%	15%	20%	15%	20%	30%	15%	4%	2%

Thank you to our customers for making our 2021 bull sale a success.

2021 High Sellers



TJ 422H ASA# 3762939

Purchased by Brian Oswald, Iowa & Steve Harris, Ohio.



TJ 421H ASA# 3762938

Purchased by Tyler Bang, North Dakota.



TJ 485H ASA# 3762999

Purchased by Schupback, Missouri; Welsh, Illinois; and Cow Camp Ranch, Kansas.

TJ GOLD 274G

3582577 PB SM

Homozygous Black, Homozygous Polled

SIRE: HOOK'S EAGLE 6E

DAM: TJ 12C

MGS: CCR SANTA FE 9349Z

A truly unique purebred bull who offers a no hole genetic profile alongside striking phenotype. No matter if we utilized Gold on Angus, SimAngus™ or purebreds we have been blown away with the quality of his calves. Expect this calving ease oriented herd sire to offer curve bending genetics and inject an extra shot of rib and shape to his progeny.

CE	BW	WW	YW	MCE	MILK	STAY	DOC	CW	YG	MARB	REA	API	TI
15.0	-1.1	92.1	144.0	8.4	28.2	17.5	16.2	32.7	-0.26	0.40	0.77	163.4	97.2
10%	10%	10%	4%	15%	20%	35%	5%	40%	99%	10%	75%	3%	2%



TJ CHIEF 460G

3611575 1/2 SM 1/2 AN

Homozygous Black, Homozygous Polled

SIRE: TJ FROSTY 318E

DAM: TJ 52A

MGS: TJ NEW TIME LINE 113X

Chief's look and balance made him a crowd favorite at our 2020 bull sale. He is a herd sire candidate who always commands your attention for his phenotype and presence and is as athletic as they come from a soundness standpoint. He is more than just a pretty face as he studies with 12 economically relevant traits in the top 35% or better in his genetic profile.

CE	BW	WW	YW	MCE	MILK	STAY	DOC	CW	YG	MARB	REA	API	TI
13.5	-1.5	92.5	139.8	6.4	33.8	21.1	15.0	37.5	-0.11	0.42	0.60	159.9	93.7
35%	20%	4%	10%	60%	1%	2%	15%	35%	85%	30%	60%	10%	3%



TJ 428H ASA# 3762945

Purchased by Moriondo Farms, Missouri.

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Exploring Genetic Defects in Beef Cattle

CONTINUED FROM PAGE 15

purebred herd, which was a major financial hit. This happened to varying degrees with other defects, and until the technology became available to identify carrier animals within an individual animal, it was quite difficult to eliminate the issue entirely.

Dr. Steffen explains that the identification of genetic defects in beef cattle has progressed immensely since he first started in the early 90s — from the first observations of abnormalities in animals to the development of a test, it could be up to five years, if at all. In context, if a breeder used a bull carrying a recessive defect for one year and kept back replacement heifers, that genetic defect risk would spiderweb throughout half of the sire's offspring unknowingly for some time and cause that herd to go from having no genetic defects to a large portion being at risk. For a recessive defect to be expressed, both the sire and dam have to carry and pass on that mutant allele, but this scenario sets a herd up for massive failure if the wrong pedigrees are combined.

Genetic and scientific advancements have revolutionized this process. For example, in the spring of 2020, Dr. Steffen helped identify and develop a genetic test for a facial defect in calves in around four months. "If everything goes perfect and we get good breeder reporting and cooperation it can be four to six months," he explained. However, Dr. Steffen cautions, "There are some disorders we have been working on for years."

Discovering a Defect

The identification of most genetic defects starts with breeders reporting abnormalities to breed associations and veterinarians. For example, ASA's DNA department takes calls and emails from breeders who have observed an abnormality in their herd, has the breeder file a report, take photos, and ideally, collect a DNA sample. If the animal is still-born or dies, Dr. Steffen strongly encourages breeders to take an ear sample, and if necessary, freeze it as a DNA source. From a live calf, it is usually best to collect whole blood (EDTA purple tube). "If they run across something on a weekend, or when they can't get a hold of anyone, I'm a big believer in freezing things. You can preserve the calf for later examination that way, and even though we were told by pathologists not to freeze samples, I do that for my research routinely and we can make it work." Dr. Steffen says.

If a calf is born with an abnormality, it is extremely important to get photo documentation as soon as possible, take at least a DNA sample, and if possible, it is best to wait to discard the animal and place it in the coolest place possible until an expert has a chance to look at the photos. Breed associations, experts like Dr. Steffen, and local veterinarians can be extremely helpful in these situations.

Even though the large majority of abnormalities end up being attributed to environmental factors, Dr. Steffen considers every case that comes across his desk with an open mind. He says, "We investigate every report to some degree as a potential new problem. How we approach it then depends on what we see in the phenotype. If someone has an abnormal calf, I do consider how useful it will be, but I will look at everything delivered to the program. I tell people that at a minimum they need to take a photo, and get someone to look at it or get the calf to a veterinarian. From that we can determine if the case is worthy of further pursuit. Our typical approach is to determine the phenotype, and get a DNA sample from the calf, and if it's convenient, from the sire and dam. We can bank that DNA, and record what we can about the phenotype."

Cases worthy of investigating can be coordinated through the breed association, local veterinarians, or a regional veterinary laboratory. Often an autopsy or veterinary examination is needed to establish a diagnosis, whether it is genetic or environmental. Storing DNA samples on high-impact animals can be highly benefi-

cial if an abnormality emerges in a herd — if the sire is culled after one season, at least a DNA sample will be available for later research. If a second case comes in the next year, and the phenotype suggests that this may be a new defect, having that banked DNA on the parents becomes more important. Dr. Steffen will look at the pedigrees to identify relationships as part of the investigation when those records are available.

If a pattern of disease and relationships are identified, the next steps involve working with the breed association. Dr. Steffen explains, "At this point we say, 'we have really good epidemiological evidence showing this may be a genetic defect'. Then the breed association will assist research to allow us to sequence DNA samples and to determine if a relationship between genotype and phenotype truly exists. Once that is verifiable and the mechanism of inheritance is confirmed, the disease phenotype and mode of inheritance is published to inform breeders to aid selection. Once the mutation is known, the genetic tests are typically adapted to and validated on commercial DNA tests and offered to breeders to aid selection."

Why Do Defects Matter?

Genetic defects can have massive financial implications if they go unchecked. For example, Developmental Duplication causes the duplication of a body part, oftentimes a limb. An affected animal may end up being healthy and productive, but an extra body part can cause extra calving difficulty, which only adds to the financial losses caused by dystocia, and can be more at risk for injury. Other defects, like Neuro-pathic Hydrocephalus, are always lethal, and as everyone in the cattle business knows, each and every calf is important.

As science continues to advance, harder-to-detect mutations that cause loss are being identified. For example, in 2011, researchers at UC Davis and the USDA were able to identify a lethal mutation in the Holstein bull, "Chief", that was responsible for 525,000 spontaneous abortions worldwide since the 1962-born bull went into production. Chief is also estimated to have increased profit in the dairy industry by \$30 billion dollars, which exemplifies the importance of being able to identify mutations and breed selectively to avoid issues. There are an unidentified number of mutations that cause hidden losses like this that can be discovered due to advancements in genomic technology without seeing abnormal calves, but by identifying missing genotypes in adult cattle populations.

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W/C Bankroll

W/C Pinnacle E80

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



W/C Night Watch 84E

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



NEW

DMCC Black Velvet 5E

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



SSC Shell Shocked 44B

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



THSF Lover Boy B33

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



NEW

Longs Capitalist G523

By W/C Night Watch 84E
EPDs: CE: 16 \$API: 145 \$TI: 85



NEW

Ruby NFF Up The Ante 9171G

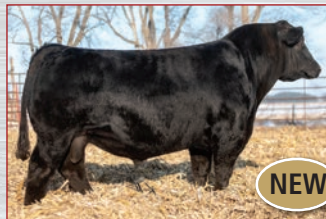
By Ruby's Currency 7134E
EPDs: CE: 11 \$API: 116 \$TI: 71



NEW

ACLL Fortune 393D

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



NEW

W/C Double Down 5014E

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



Ruby SWC Battle Cry 431B

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



NEW

Mr SR 71 Right Now E1538

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



NEW

GSC GCCO Dew North 102C

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



PAL/CLAC Meant To Be 823E

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



3/4 NAILE and
NWSS Champ

Reckoning 711F

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



NEW

TJS King of Diamonds 165E

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



NEW

PBF Red Paint F88

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



NEW

SC Pay the Price C11

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



NEW

JASS On The Mark 69D

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



W/C Relentless 32C

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



NEW

3/4 SimAngus™

WLE Copacetic E02

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



NEW

Mid-Am Hind Sight 83F

By Mr CCF 20-20
EPDs: CE: 15 \$API: 108 \$TI: 70



NEW

B C R Perfect Vision F022

By MR CCF 20-20 3/4 SimAngus™
EPDs: CE: 9 \$API: 115 \$TI: 72



NEW

3/4 SimAngus™

LLSF Vantage Point F398

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



WS Revival B26

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



LLSF Pays To Believe ZU194

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



W/C Bankroll 811D

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



CLRS Guardian 317G

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



KSU Bald Eagle 53G

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



W/C Rolex 0135E

By Yardley Utah Y361
EPDs: CE: 15 \$API: 123 \$TI: 72

Relentless brother - sexed semen available.



FELT Perseverance 302F

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



W/C Express Lane 29G

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



MR CCF The Duke G42

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



Erixon Bitten 203A

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



LCDR Favor 149F

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



SFG The Judge D633

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



TL Ledger 106D

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



GPG Focus 135F

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



OBCC Kavanaugh F236

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



LHT Viper 65E

By W/C Loaded Up 1119Y
EPDs: CE: 17 \$API: 131 \$TI: 70



JBSF Logic 5E

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



WHF/JS/CCS Double Up G365

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



Mr CCF Vision Z60

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



Perfect Vision 26D

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

20-20's brother



RRF Trading Up E777

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



JSUL Something About Mary 8421

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



CDI Innovator 325D

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

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Bridging the Gap

More awareness of food systems has opened doors for producers to connect with consumers.



By Ryan Goodman

As our calendars transition to the spring months, it is difficult to believe we find ourselves a year into the coronavirus pandemic. It was last March and April when COVID-19 struck and many states placed restrictions on business capacity and travel. Many Americans found themselves working

from home and were forced to cook most meals in the kitchen.

Food distribution channels significant disruption, seemingly overnight, as foodservice and restaurants closed their doors. All of that food demand suddenly shifted to retail and grocery stores that were not equipped to handle the rapid change. For the first time in many American's lives, we saw grocery store shelves empty of everyday essentials, especially our favorite cuts of beef.

Our industry organizations quickly came together working on public relations campaigns to address concerns of food shortages in media reports. Images of empty meat counters circulated social media stoking these fears. Demand for local freezer beef soared and it did not take long for local processors to fill their schedules for 18 months — even longer in many locations.

These impacts still linger into 2021 as we continue work to roll out a vaccine and struggle to find a timeline for when our food purchasing trends will resume to a pre-pandemic normal.

Shifting Food Focus

In those early days of the pandemic, I vividly remember working with my team in Denver to toss all consumer messaging we had planned for the spring months — normally a time to discuss beef's sustainability and early grilling season. Instead, consumers were seeking information for cooking at home with items from pantries and freezers.

Online searches for “ground beef recipes” soared to all-time highs as consumers were looking for creative ways to prepare every meal at home.

This was a large shift for beef messaging and advocacy compared to what we have known for much of the past decade. While consumers had been asking about beef's sustainability, animal welfare requirements, antibiotics, and food safety, purchasing decisions largely have been made on the factors of price, taste, and convenience.

With COVID-19 restrictions and sparse options at the grocery stores, purchasing decisions, at least momentarily, were being made on the factors of price and availability.



Opportunities for Advocacy

On a positive note, recent surveys have shown that respect for the work of farmers and ranchers is at high levels for modern times. Consumers are more aware of the fragility of our food system and are seeking out more information on where food comes from and how it is grown.

This is a big opportunity for our beef community and you as a beef cattle producer to be the face of the industry for someone near you. While our industry organizations and Checkoff programs do great work to reach consumers, we also know that Americans are more likely to trust a person we know more than a brand.

Over the years, I have worked with many farmers and ranchers who think they have little to nothing in common with people in urban and suburban America. Maybe you are thinking that right now, but I would challenge you to reconsider.

Just as you miss a good meal out at a restaurant or an annual getaway to an industry event, many Americans are experiencing the same this year.

Being an advocate for our industry sometimes begins with nothing more than sharing those struggles we have in common. Connect with other people as a person first and you just might be surprised by their interest in learning more about your role in bringing beef to their plate.

While you are out in the pastures this spring with young calves running around and watching the new growing season unfold, take a few moments to snap some photos and share them on your favorite online

platform. Take the beef lifecycle online to share with those who are asking questions about our food supply chain after a year of disruptions and open new doors for conversations.

Social media and online communication can have a significant role in reaching consumers where they are seeking information, but do not overlook the people in your circles of influence. Maybe it is someone in your community not involved in agriculture who you interact with at school functions or sporting events. Chances are, at the very least, they would love a conversation about their favorite beef meal.

Ryan Goodman is an ag communicator and rancher based in northern Colorado. He can be found on social media as @BeefRunner or at BeefRunner.com

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Timing matters: It pays to get more cows bred in the first 21 days

By Todd Bilby, PhD,
Cattle Technical Services



Reproduction in beef cattle is 10 times more economically important than growth traits. It's 20 times more important than carcass traits. An extra calf, or more calves per cow herd, is the single largest factor in increasing pounds of beef.

Getting cows and heifers pregnant in a timely manner is critical to reaping economic advantages. For every 21 days cows are open, we lose somewhere between 20 and 60 pounds of weaning weight. There's a lot of profit potential if we can have more calves in the first 21 days of calving season.

A decade of records were analyzed to determine the effect of the calving period on heifer and steer progeny at Gudmundsen Sandhills Laboratory in Whitman, Nebraska.¹ Progeny were classified as being born in the first, second or third 21-day period of the spring calving season.

The research showed that heifer calves born during the first 21 days of the spring calving season had greater weaning, prebreeding and precalfing body weight; greater percent cycling before breeding; and greater pregnancy rates. Similarly, steer calves born earlier in the calving season had greater weaning body weight, carcass weight and marbling scores.

Synchronization benefits bull breeding programs

Another study aimed to determine the effect of estrus synchronization on calving distribution and the impact of time of calving on carcass characteristics.² The study compared calves from nonsynchronized 60-day breeding seasons with calves from estrous-synchronized 45-day breeding seasons. Estrus was synchronized using a single injection of prostaglandin administered 108 hours after mixed-age bulls were turned in with the cow herd.

Data showed that more synchronized cows calved during the first 21 days, and calves born to synchronized dams were 20 pounds heavier at weaning. Calves born in the first 21 days of the calving season had greater carcass weights, marbling scores and yield grades than later-born calves. In addition, the percentage of steers grading premium choice or greater, and the total carcass value declined as time of calving increased.

The data showed that one shot of prostaglandin at 4-5 days after turning out the bulls resulted in cows coming into estrus sooner, which in turn gave a better opportunity to get pregnant earlier, and therefore, more of these cows calved in the first 21 days of the calving season. Their calves were heavier at weaning and produced a heavier, more valuable carcass that was worth an additional \$77 at the feedlot. If that protocol won't fit your management system, one shot of prostaglandin at turnout will still induce more cows to show heat sooner.

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Pregnancy rate to FTAI was significantly higher in cows treated with Fertagyl than in cows treated with control. Estrumate has a long half-life of three hours³. Consult your veterinarian for recommendations on heat synchronization protocols.

¹Funston RN, Musgrave JA, Meyer TL, Larson DM. "Effect of calving distribution on beef cattle progeny performance." *Journal of Animal Science*, 2012;90:5118-5121.

²Larson DM, Musgrave JA, Funston RN. "Estrous synchronization increases early calving frequency, which enhances steer progeny value." *Nebraska Beef Report*, 2010;14-16.

³European Agency for the Evaluation of Medicinal Products, Committee for Veterinary Medicinal Products, Cloprostenol and R-Cloprostenol Summary Report, 1997.

IMPORTANT SAFETY INFORMATION FOR ESTRUMATE

Women of childbearing age, asthmatics, and persons with respiratory problems should exercise extreme caution when handling ESTRUMATE. ESTRUMATE is readily absorbed through the skin and may cause abortion and/or bronchospasms; direct contact with the skin should be avoided and accidental spillage on the skin should be washed off immediately with soap and water. Do not administer ESTRUMATE to a pregnant cow if abortion is not desired. Severe localized post-injection clostridial infections have been reported; in rare instances infection has led to death. At 50 and 100 times the recommended dose, mild side effects may be detected. For complete information on ESTRUMATE, see package insert.

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Survey Says! Part II

Current State Farm and Ranch Estate and Succession Planning



By Cari Rincker, Esq. of Rincker Law, PLLC

When looking for farm and ranch estate and succession planning solutions with increasingly challenging farm family dynamics, it's prudent to first look at the data. Rincker Law, PLLC performed a survey sent via email and posted via social media geared for agriculture producers.

Editor's Note: *This two part series discusses results from a survey taken July thru October 2019 via Survey Monkey. The demographics of this survey were discussed in Part I in the January 2021 issue of SimTalk. This article delves into the roadblocks that survey takers noted for their estate plan, business planning, succession planning and nuptial agreements.*

Estate Planning Roadblocks

When asking survey takers what their biggest roadblock is to doing or updating a farm estate plan, the following answers were noted:

- “[Expletive] family members that don’t want anything to change from the last 40 years”
- “Time” and “setting aside time to review and update”
- “Farming seems to always be the priority. On a farm it’s never ending work and projects.”
- “We feel our estate plan is premature and want our parents to put together a plan first which they have not” or “previous generation not wanting to address it”
- “Priorities and distractions”
- “Waiting to see what my kids want to do after college” or “getting my kids through college and into a career”
- “Oldest generation (grandma who is 96 is still living) and she hasn’t passed down estate to the next generation who is ready to retire.”
- “Cooperation from partners”
- “Knowing what to try — a trust? A Business entity” [or all of the above?]
- “Potential familial changes when one partner gets married”
- “I don’t really know what an estate plan is”
- “Fear”
- “I don’t see value at our age and asset values”
- “COVID”
- “Cost” or “. . . too expensive”
- “Family”
- “Lack of professional assistance”
- “Getting everyone together”
- “. . . getting everyone on board”
- “Wondering what to do about family members that are shareholders in the ranch but not involved in the operation.”
- “Feelings versus what makes good business sense”
- “Spouse paying attention. Children are too young to grasp the levity of it”
- “Appraisals”

Time should never be a roadblock, but oftentimes is. Life is busy, after all. Rincker Law, PLLC recommends to clients to put estate planning in your calendar and treat it like any other deadline in life, such as the deadline to file taxes, a deadline for court, or a deadline for a customer/client. No matter how far off this deadline is in the future, be accountable to this deadline and work backwards with the estate planning attorney. Thus, if you hope to have your estate plan done before March 15th, well in advance of planting season, then ask your estate planning attorney when you should begin. Depending on the complexity of

the issues, he or she may say to start one to three months in advance of this deadline. It also may take a month or so to get a retainer appointment with some estate planning lawyers. In working backwards on this form of goal setting, you may need to make your first contact with the lawyer four to six months in advance of the “deadline.” This is how to get this accomplished in a timely manner. This is also why “emergency estate plans” while someone is on their deathbed are never ideal. Estate plans require careful and thoughtful planning.

Cost should not be a roadblock. As stated earlier, there is an estate plan to fit every budget. Have candid conversations with several estate planning attorneys. Some estate planning attorneys allow for long-term payments plans, either before or after they do the work. This is a requisite part of life that must be planned and budgeted for.

The failure of other family members to have a plan should not be an excuse. If you are over the age of 18 and either are married or have children, or own any property, then you should have an estate plan. Using the failure of older generations to plan properly can no longer be a valid excuse in the agriculture community or the cycle will never break. Work on your estate plan anyway. Invite your parents or grandparents to the conversation. You cannot force them to do the work they need to do but you can lead by example.

Estate plans can be changed at any time. Have an estate plan even though life feels like it is in flux with children in college. Modify it later, if needed.

For those families that do not know how to properly handle off-farm heirs, welcome to the common quagmire of nearly every multi-generational agriculture business in 2020 as nearly all farms and ranches have the same issue. It is normal for parents to want to treat their children equally; however, as a caveat, equitable does not necessarily mean equal. Thoughtful planning should be done in this regard on the future of the business.

As for not knowing what to do, this is why every farm and ranch family should consult an estate planning attorney knowledgeable in agriculture. Stay away from cookie cutter DIY estate plans, which may or may not be enforceable or fit your needs.

Every farm family knows how difficult it is to get everyone together. For over a decade, Rincker Law, PLLC has recommended to clients to use the holidays as a time to discuss estate and succession plans as it is the most likely time to get everyone in one place. Due to safety concerns surrounding COVID-19, some farm and ranch families may have chosen to not get together over this past holiday season; however, the two themes of 2020 are the words “pivot” and “Zoom.” Multi-generational farm families should consider having a virtual pow wow, either around the holidays or thereafter, to host a discussion. Consider having a mediator join the conversation, if needed, to spearhead and facilitate a fruitful discussion. With the use of video technology, there are no longer geographic restrictions on finding an agriculture mediator.

CONTINUED ON PAGE 30

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CONTINUED FROM PAGE 27

Finally, COVID-19 should not be an excuse. If anything, the silver lining of this pandemic is that many states have promulgated executive orders allowing for virtual notarization and will signing ceremonies, so people can execute their estate plan out of the comfort of their own home with the use of Zoom, GoToMeeting, FaceTime or other video conference platforms. Furthermore, it has only highlighted that life is precious, and terminal, and that people of every age, sex, and socioeconomic are vulnerable to a virus that may take their life or a life of a loved one.

Business Planning

It was positive to see that 75.44% of survey takers had some type of business entity. This was higher than expected but lower than it should be; when diving deeper, some participants who noted they had a business entity may have later selected a sole proprietorship, which had no liability shield. Nearly every farm or ranch should consider a business entity that would reduce any personal liability if there is an injury on the property, a food safety concern, or another risk associated with production agriculture. The general partnership or sole proprietorship are ubiquitous with farm families but this does not protect the land or personal assets in a lawsuit.

For the 43 survey takers who noted they had a business entity, the limited liability company was the most popular choice (21 out of 43). Eight noted they had a corporation with three having a limited partnership. The remaining participants had either a general partnership, a sole proprietorship or marked “Not Applicable.” 22 participants stated that they had multiple business entities, which is a nice plan for most (but not all) farms and ranches.

Succession Planning

It was good to see that 51.79% of survey takers had identified an heir interested in taking over the farm/ranch or agri-business; however, this number should improve. Roughly one fourth (26.7%) of survey takers explicitly stated there was no identified heir while 14.29% were not sure. Remaining participants marked “not applicable” for this question. This data highlights the need for farm families to communicate interests and desires in this regard; it also shows that many farms and ranches may have off farm heirs where it is unclear whether they wish to come back to the agriculture enterprise.

Open communication is the first step to a successful succession. Somewhat optimistically, 56.9% of participants stated that their agriculture family had open communication about their estate plans. This is far too low and the agriculture community needs to help farm this open communication. One option is with the growing use of agriculture mediators to help multi-generational farm families facilitate an open discussion.

The families that have been successful note the following responses for how they were able to accomplish same:

- “Monthly meetings”, “Annual meetings” or “[Regular] meetings;”
- “Just being [up] front about it”, “continue to be straight forward” or “being blunt about it and just talk about it with our son all the time;”
- “My parents have been open about their estate plans.”
- “Third party mediator;”
- “Face to face family meetings; I learned from [an] uncomfortable sibling experience with my parent’s estate;”
- “Plan a meeting with an attorney and invite the family members. If they don’t attend then they get cut out of the planning;”
- “Having to buy out relatives. Need to have another one with next generation;”
- “A parent who died intestate forced the conversation for us. We have since set up a LLC and Wills, etc.;
- “We talk about it with our advisor;”
- “We have had several family dinner[s] where we discuss the future of the farm and what is to happen if someone passes away unexpectedly.”
- “Make suggestions, state opinions, and ask questions to stimulate discussions;”
- “Our immediate family decided to be very well-planned and purposeful with our planning after our “source” farm family was secretive and refused to discuss plans and ultimately provided an estate plan that all three children found unfair, that caused mostly avoidable heartache and damaged relationships.”
- “We were forced [to have a conversation] when a family member became disabled, and a family was looking at long-term rehab.
- “In person and use of conference call for out of town members;”
- “Kids are spread out so we have not had a family meeting but they know the basic plan;”
- “Family meeting over supper. Discuss the wishes of the grantor and how the grantee should carry them out.”
- “We dug our feet in and insisted on a family plan with our parents, but who knows when it will be reviewed and updated.”
- “My grandparents on the ranch were open about estate planning. My wife’s family also encouraged estate planning.”
- “Our estate plan discussions are most open closely following [agriculture] conferences we attend. However, discussion does not always transfer into action.”

Frustratingly, almost 48% of survey takers admitted that their farm or ranch did not have a succession plan on transferring knowledge and management skills from one generation to the next. Only 16 out of 57 (or 28.07%) have an ascertainable game plan. This is arguably more important than the estate planning documents that need urgent attention in agriculture education.

Prenuptial Agreements

In agriculture, prenuptial agreements can oftentimes be considered taboo. However, when used properly, they can also be a prudent component to an estate plan. Many believe that prenuptial agreements are planning for a divorce; instead, consider a prenuptial agreement akin to a life insurance policy for a marriage. After all, one of the Big D's that harms family farms is Divorce (along with Death and Destruction).

Unfortunately, only one survey taker out of 58 noted that a child or heir had a prenuptial agreement. While 47.3% did note that this question was not applicable to them but 50% of those who had children who were married admitted that there was no prenuptial agreement. As a firm who handles farm divorces, it is devastating to observe what divorce can do to families, much less an

agriculture business. Agriculture educators are urged to provide more education in this area to farm and ranch families so decisions can be made whether a nuptial is best for members of the family unit.

Summary

In closing, nearly all farm and ranch families have intentions to pass their operation to a successor generation, either to a farm/ranch heir or to a third party. Estate planning, business planning and succession planning work together to help develop a game plan that is individually tailored for each farm and ranch family. There is no cookie cutter one-size fits all print-a-form-from-the-Internet plan. This takes planning, forethought and special care. It also needs to be morphed and improved overtime to better fit life's changes and present goals.

Cari Rincker is the principal attorney at Rincker Law, PLLC, a nationally recognized law firm focusing on food, farm and family. Rincker grew up on a Simmental cattle farm in Central Illinois and presently resides on her own small farm outside of Champaign. For more information contact: cari@rinckerlaw.com Or www.rinckerlaw.com

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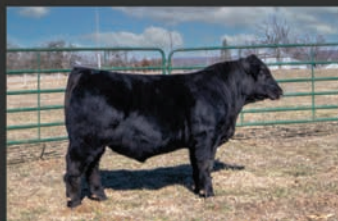
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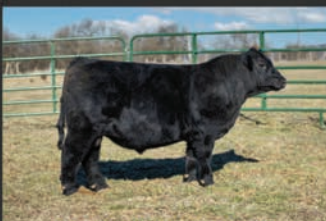
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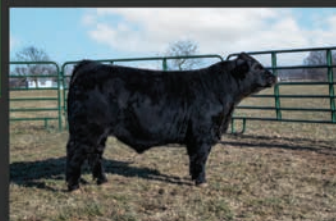
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Building Blocks of Commercial Genetic Awareness



by Lane Giess, 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

IGS Feeder Profit Calculator™

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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Homozygous Black
Homozygous Polled

Sire: W/C Executive Order 8543B
Dam: W/C Miss Werning

Trait	Direct					Maternal				DOC	Carcass					\$ Index		
	CE	BW	WW	YW	ADG	MCE	Milk	MWW	Stay		CW	YG	Marb	Fat	REA	Shr	API	TI
EPD	16.1	-1.0	69.9	93.5	0.15	6.6	26.0	60.9	8.7	14.4	19.0	-0.58	-0.08	-0.085	1.27	-	110.1	71.9
ACC	.58	.69	.58	.59	.59	.34	.23	.34	.29	.32	.55	.42	.44	.44	.53	-		
%	4	10								15	2			2				

EPDs as of 1.29.2021



ASA# 3045559 • PB SM
Homozygous Black
Homozygous Polled
Sire: Yardley Utah Y361
Dam: Miss Werning KP 8543U

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Trait	Direct					Maternal				DOC	Carcass					\$ Index		
	CE	BW	WW	YW	ADG	MCE	Milk	MWW	Stay		CW	YG	Marb	Fat	REA	Shr	API	TI
EPD	10.1	3.6	75.0	95.0	0.12	2.5	20.7	58.2	10.1	11.4	9.7	-0.46	.22	-0.070	.91	-0.34	113.8	74.8
ACC	.70	.88	.83	.81	.81	.57	.53	.61	.40	.51	.73	.52	.53	.55	.67	.36		
%																		

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A CHROMOSOME'S WORTH OF DIFFERENCE

How EPDs may tell a different story than performance records or parental averages.

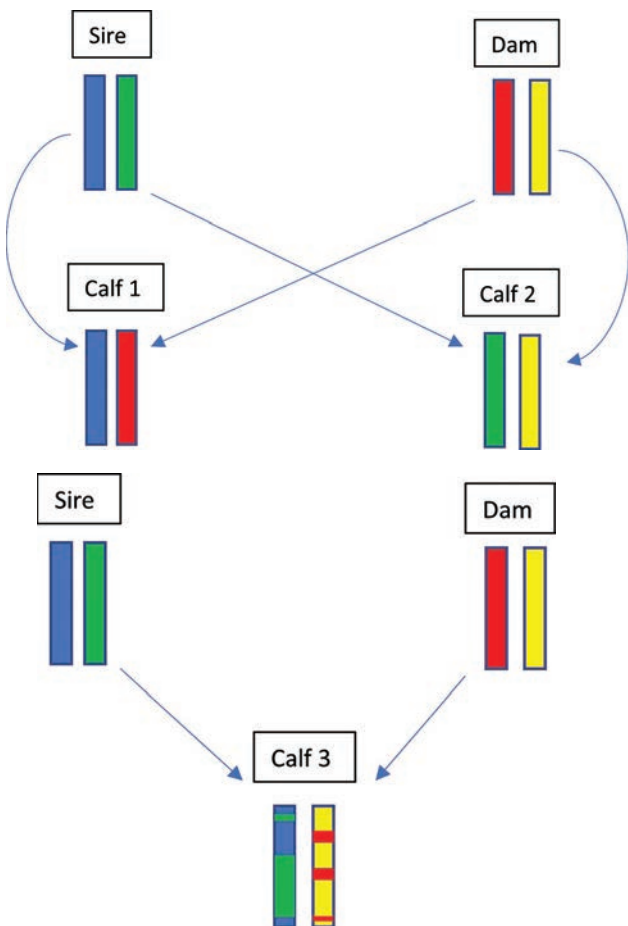


By Sean McGrath, Genetics and Beef Consultant and Rancher

While EPDs have been around for several decades there is still a lot of confusion about where they come from and their use. A lot of comments I hear relate to the confusion between actual performance of a seedstock animal and the EPD for said animal. So let's go back to the beginning.

An EPD is an expected progeny difference and it uses all the available information we have to describe an animal's DNA for a specific trait.

The EPD uses the animal's own performance in its calculation but it is not the performance of the animal, it reflects the predicted performance differences of the OFFSPRING. Let's look at the following example. We know that DNA is arranged in chromosomes and that chromosomes come in pairs. (Cows have 30 pairs or 60 chromosomes total). For this example let's simplify and only look at one chromosome.



In this example, we can see full sib calves (Calf 1 and Calf 2), that wind up with completely different chromo-

somes from the parents, and thus they could have completely different DNA for various traits. A good example of this in the real world is that of bulls and heifers. We know that bull calves get an X and a Y chromosome at pair number 30 and heifers receive two X chromosomes. We could have full sib calves, but a heifer and a bull have obvious differences caused by having a completely different chromosome.

To further complicate things, when the sire and dam are replicating their DNA, parts of the various chromosomes can swap places. If we use our example, we could end up with a calf that looks like Calf 3. The multitude of potential combinations runs into the billions, even if we are talking about a single sire/dam mating. This is the reason that we need EPDs.

On average, a calf is somewhere in the middle of the sire and dam; however, obtaining more information allows us to better predict what DNA that calf is carrying and thus can pass on to their offspring.

As we add information, we can do a better job of predicting differences between cattle and are more sure of the results. We express the amount of information included in an EPD in terms of accuracy. Since an EPD is a reflection of DNA that can be passed on to progeny, measuring progeny is the ultimate information, but measuring the actual animal is a good first step. As we add progeny measures, the impact of pedigree, DNA, and the animal's own performance declines in overall importance.

So to back up a step, each animal is the result of the DNA they inherit, interacting with their environment. We call the actual performance/appearance of the animal the phenotype. Initially, we may know pedigree information on each bull. If we take performance measurements of phenotype we can determine their performance relative to other animals that are managed in the same way (the same environment).



This same environment is what we refer to as a management group. A contemporary group is a further refinement. It includes animals of the same sex, of roughly the same age and raised in the same environment. If the environment is the same, then a lot of the differences we see between phenotypes are due to genetics or differences in DNA and interactions in the DNA. This is why performance data can create dramatic changes in an animal's EPD that are predicted from pedigree alone. Once we know the genetic component

of those performance differences, we can compare these differences across herds by using pedigree ties.

We can now further refine this, by looking at DNA directly using a genomic panel. This obviously also tells us a lot of information about what DNA the animal received from its parents and thus can change the EPD significantly as well.

Finally, since the EPDs are “expected progeny differences” once an animal becomes a sire/dam and passes on its DNA, we can measure the offspring and see what differences are expressed in the progeny.

Let’s go back to Calf 1, 2 and 3 again. From their pedigree we would predict that they would have identical EPD, but we can see that they have different DNA. Let’s for a second assume that they were in the same herd, are all bull calves, born in 2020 and were raised together. They are a contemporary group. Their weaning information is shown in Table 1. Based on the weaning information we would predict that Calf 1 has DNA that is superior for growth from either Calf 2 or 3, and that Calf 2 has a genetic combination that is even lower for growth. A DNA test may further confirm this and provide more accuracy or certainty to that prediction, see Table 2 for an example.

Table 1. Weaning Weight Performance of Calf 1, 2 and 3

Calf	Weaning Weight	Deviation
1	700	+50
2	600	-50
3	650	0
Average	650	0

Table 2. Weaning Weight EPD and Accuracy (r) of Calf 1, 2 and 3 as information is added to their profile.

Calf	Information in the EPD		
	Pedigree	Performance	DNA
1	61 (0.15)	70 (0.30)	70 (0.50)
2	61 (0.15)	54 (0.30)	50 (0.50)
3	61 (0.15)	61 (0.30)	62 (0.50)

If these calves were to become sires, then we could measure performance of their progeny and further refine our knowledge of their DNA.

Information in an EPD

Pedigree	Starting point. Accuracy of 0.10 to 0.15
Individual Performance within Contemporary Group	Provides a good indication of the genetics of the animal. Accuracy of 0.15 to 0.35 depending on the trait
DNA Markers	Contributes a lot of accuracy to young animals (animals without progeny records) Accuracy of 0.30 to 0.60 depending on the trait.
Progeny Records	Provides a true measure of progeny differences. Accuracy of 0.30 to 0.99 depending on number of progeny

Where to From Here?

A bull cannot pass on their own performance to his progeny necessarily. The performance of an individual is merely an indication of what DNA they might be carrying that they can pass on to their offspring. While individual performance is useful, management can impact the expression of genetics, so performance alone can be somewhat misleading. We are really interested in what DNA the animal possesses that can be passed onto offspring.

I have heard the statement made that order buyers don’t pay for EPDs, and this is correct. Since we are not expecting progeny from our steer calves or market animals, we care about their performance since that

is what we are paid on. In the same vein, we are not paid for the performance of a sire, we are paid for the expression of his DNA in those market offspring or retained females. EPD can provide us insight into the DNA that each animal possesses and can pass on to their offspring.

Sean McGrath is a rancher from Vermilion, Alberta and also a genetic consultant for a number of Canadian beef breed associations including Canadian Simmental and Canadian Gelbvieh Associations. Sean is a very engaged contributor to the IGS collaboration and works closely with IGS staff. **ST**

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IGS is ideally suited as the benchmark in gauging feeder calf value. The IGS Feeder Profit Calculator™ leverages the world's largest beef genetic evaluation to identify the Relative Value of your feeder calves and to provide a third-party certification to data-driven buyers. All at no cost to you!

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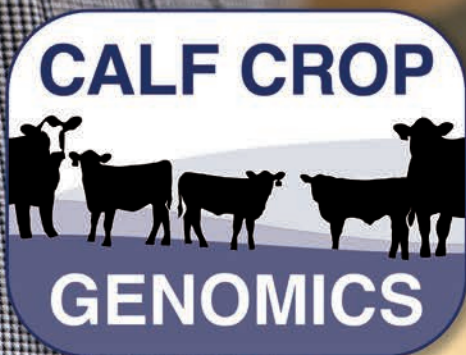
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2021 Beef Synchronization Protocols and Tips

By Jackie Atkins, Ph.D.

The Beef Reproduction Task Force, comprised of research scientists, allied industry, and veterinarians, provides beef cattle producers the best background reproductive information, and fully vetted tips and estrus synchronization protocols to ensure clear and current information is readily available.

Each year this group puts together the most reliable estrus synchronization protocols for use by the industry (see the following pages). But this resource doesn't stop there. Head to beefrepro.org to learn more about the estrus cycle of a cow, tips for using sexed semen, attend webinars, or watch previous presentations. If you have questions on how to set your herd up for success in reproduction, this group likely has your answers.

Checklist for a Successful Estrus Synchronization and AI program

Herd Management

- Pregnancy rate after 60 days > 90% mature cows, > 85% first calf heifers
- Body condition at calving \geq 5 cows, 5.5-6 first-calf heifers
- Body condition at breeding \geq 5 cows, 5.5 – 6 first calf heifers, 5-6 yearling heifers (fatter is not better)
- Majority of herd > 40 days postpartum at start of breeding, 20 days postpartum earliest time to insert CIDR in 5 to 7 day CIDR protocols
- Steady to increasing plane of nutrition before and during breeding season
- Nutrient analysis of forages used to balance rations
- Scale used to monitor body weight
- If grazing, appropriate stocking rate for available forage
- Dry feed/forage available when grazing lush forages
- Appropriate mineral supplementation for water and feed resources
- No modified live vaccinations < 30 days before breeding (45-60 days better)
- Functional facilities for sorting, treatment administration, and AI
- Skilled labor that minimizes handling stress
- Transportation and nutritional stress minimized day 5 to 45 post breeding
- Complete and accurate records to assist with troubleshooting

- GnRH and PG products administered using correct dose, proper technique, day, and time
- Uniform daily MGA consumption
- Dedicate sufficient time and skill to heat detection when used

Semen

- Breeding soundness exam performed before semen collection
- Semen received from CSS certified lab
- Minimal and correct semen handling at all times
- Straws not above frost line more than 8 seconds during handling
- Semen inventory system in place
- Appropriate type of sheaths on hand for AI gun
- Clean AI gun, scissors, thaw unit and other equipment
- Use clean thaw water, temperature monitored (94-98 F)
- Thaw semen according to provider's instructions or not less than 45 seconds and not more than 10 to 15 minutes
- Avoid temperature shock and exposure to UV rays when moving straws from the liquid nitrogen tank to the cow

Synchronization

- Synchronization system implemented according to Beef Reproduction Task Force recommendations as shown on pages 44 and 45.

Insemination

- No contaminants introduced during insemination
- Deposit semen slowly in the uterine body; push plunger forward and don't pull the gun back

Checklist from Sandy Johnson, Jeff Stevenson, and John Jaeger article entitled, *Tips for a Successful Estrus Synchronization and Artificial Insemination Program*

CONTINUED ON PAGE 44



\$40/Unit

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W/C Executive Order 8543B

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WC

DOUBLE DOWN

5014E

1/29/21

CE: 16.1/TOP 4% BW: -.1/TOP 10% WW: 89.9 YW: 93.5

M: 28/TOP 30% DOC: 14.4/TOP 15% API: 110.1 TI: 71.9

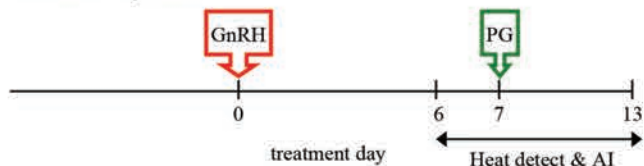
- Double Down was the \$105,000 sale feature at Wernings 2018 Bull Sale! His extremely clean pattern, great structure, and whistle front end stirred bids from cattlemen all across the nation!
- Double Down is now a **PROVEN CALVING EASE** sire who works like a dream on heifers & cows both, regardless if they are Simmental, Angus, halfbloods or clubby type!
- Double Down has produced champions with his first calf crop! They are razor fronted, ultra flexible at the ground, and **COMPLETE!**



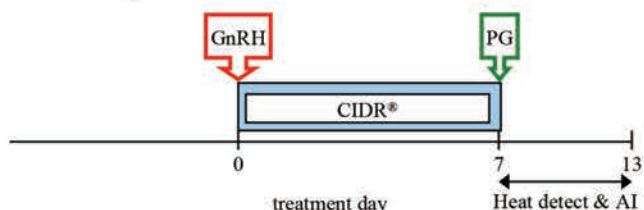
BEEF COW PROTOCOLS - 2021

HEAT DETECTION

Select Synch

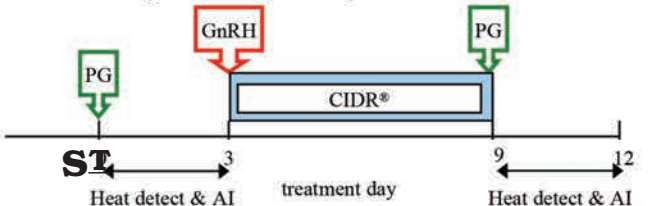


Select Synch + CIDR®



PG 6-day CIDR®

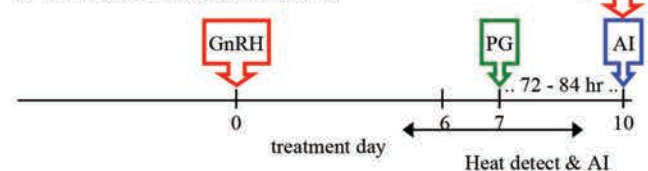
Heat detect and AI days 0 to 3. Administer CIDR to non-responders and heat detect and AI days 9 to 12. Protocol may be used in heifers.



HEAT DETECT & TIME AI (TAI)

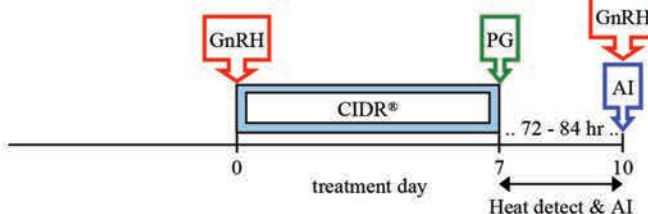
Select Synch & TAI

Heat detect and AI day 6 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



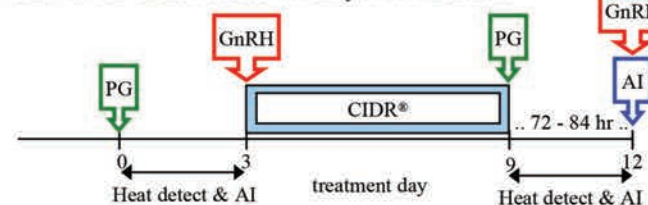
Select Synch + CIDR® & TAI

Heat detect and AI day 7 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



PG 6-day CIDR® & TAI

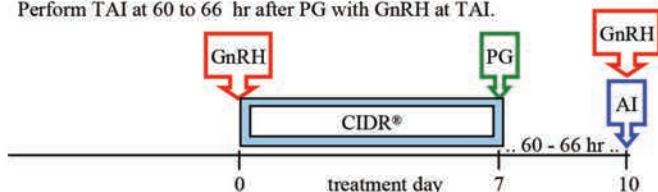
Heat detect & AI days 0 to 3. Administer CIDR to non-responders & heat detect and AI days 9 to 12. TAI non-responders 72 - 84 hr after CIDR removal with GnRH at AI. Protocol may be used in heifers.



FIXED-TIME AI (TAI)*

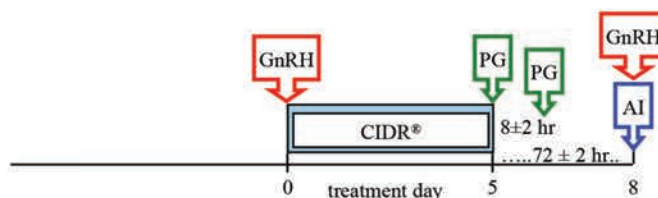
7-day CO-Synch + CIDR®

Perform TAI at 60 to 66 hr after PG with GnRH at TAI.



5-day CO-Synch + CIDR®

Perform TAI at 72 ± 2 hr after CIDR removal with GnRH at TAI. Two injections of PG 8 ± 2 hr apart are required for this protocol.

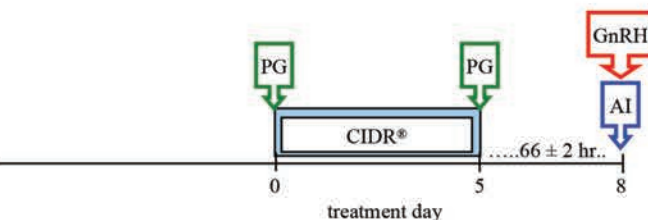


FIXED-TIME AI (TAI)*

for Bos Indicus cows only

Bos Indicus PG 5-day + CIDR®

Perform TAI at 66 ± 2 hr after CIDR removal with GnRH at TAI.



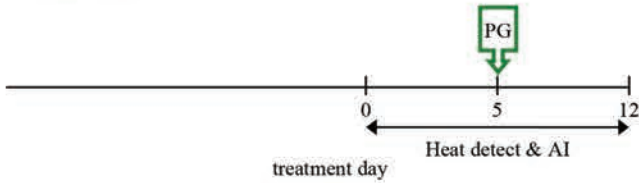
* The time listed for "Fixed-time AI" should be considered as the approximate average time of insemination. This should be based on the number of cows to inseminate, labor, and facilities.

These protocol sheets were assembled by the **Beef Reproduction Task Force**; BeefRepro.org. Programs are intended to promote sustainable food production systems by the beef industry through sound reproductive management practices for replacement heifers and postpartum cows. The Beef Reproduction Task Force recommends working with a licensed veterinarian for proper use and application of all reproductive hormones. **Approved 11-17-2020.**

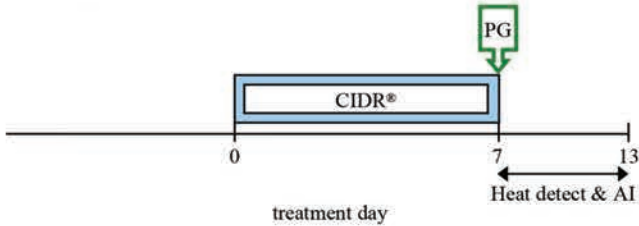
- GnRH Cystorelin®, Factrel®, Fertagyl®, OvaCyst®, GONABreed®
- PG estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™

HEAT DETECTION

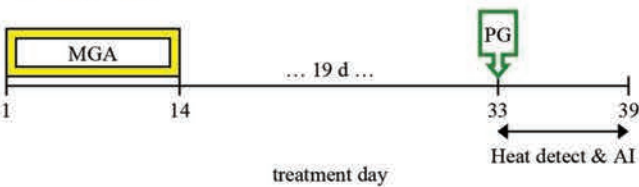
1 Shot PG



7-day CIDR®-PG



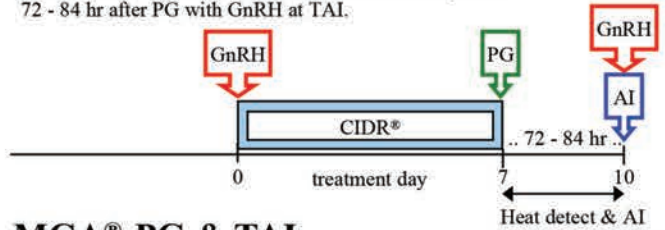
MGA®-PG



HEAT DETECT & TIME AI (TAI)

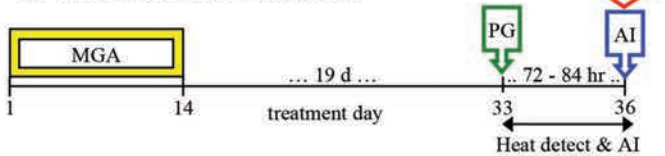
Select Synch + CIDR® & TAI

Heat detect and AI day 7 to 10 and TAI all non-responders 72 - 84 hr after PG with GnRH at TAI.



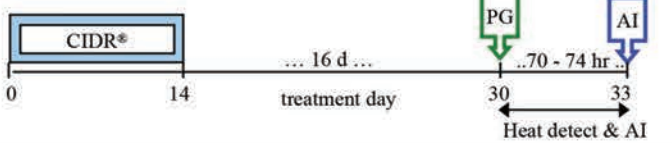
MGA®-PG & TAI

Heat detect and AI day 33 to 36 and TAI all non-responders 72 - 84 hrs after PG with GnRH at TAI.



14-day CIDR®-PG & TAI

Heat detect and AI day 30 to 33 and TAI all non-responders 72 hrs after PG with GnRH at TAI.

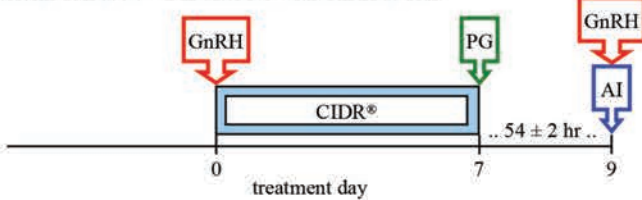


FIXED-TIME AI (TAI)*

Short-term Protocols

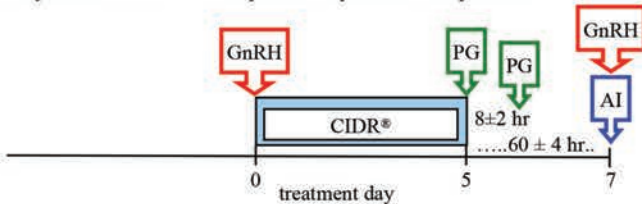
7-day CO-Synch + CIDR®

Perform TAI at 54 ± 2 hr after PG with GnRH at TAI.



5-day CO-Synch + CIDR®

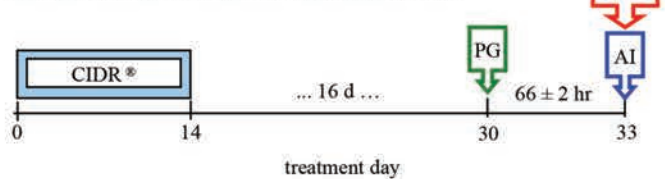
Perform TAI at 60 ± 4 hr after CIDR removal with GnRH at TAI. Two injections of PG 8 ± 2 hr apart are required for this protocol.



Long-term Protocols

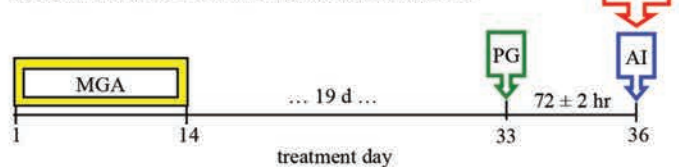
14-day CIDR®-PG

Perform TAI at 66 ± 2 hr after PG with GnRH at TAI.



MGA®-PG

Perform TAI at 72 ± 2 hr after PG with GnRH at TAI.



* The times listed for "Fixed-time AI" should be considered as the approximate average time of insemination. This should be based on the number of heifers to inseminate, labor, and facilities.

These protocol sheets were assembled by the *Beef Reproduction Task Force; BeefRepro.org*. Programs are intended to promote sustainable food production systems by the beef industry through sound reproductive management practices for use in replacement heifers and postpartum cows. The Beef Reproduction Task Force recommends working with a licensed veterinarian for proper use and application of all reproductive hormones. **Approved 11-17-2020.**

GnRH Cystorelin®, Factrel®, Fertagyl®, OvaCyst®, GONABreed®

PG estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™

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- Who runs cows that are registered, commercial or other breeds.

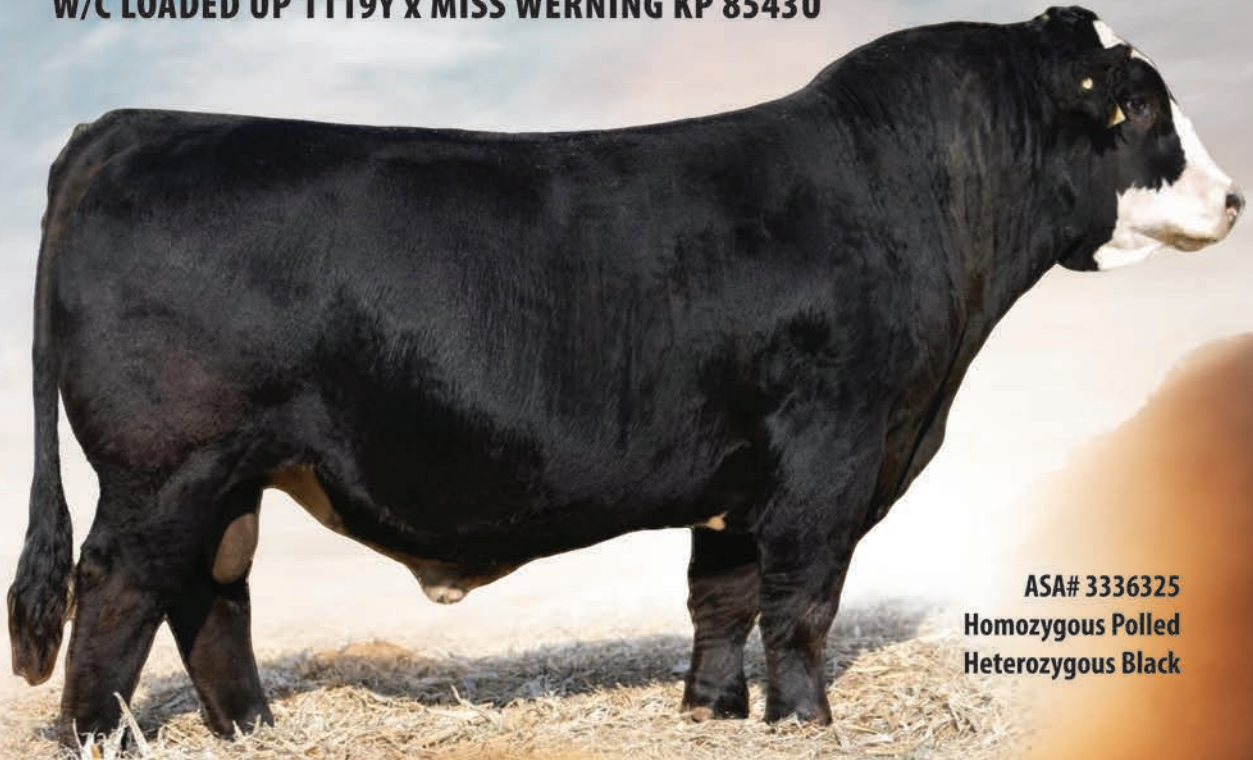
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W/C **PINNACLE** E80

W/C LOADED UP 1119Y x MISS WERNING KP 8543U



ASA# 3336325
Homozygous Polled
Heterozygous Black

EPDs - 01/19/2021

CE	BW	WW	YW	ADG	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	BF	REA	Shr	API	TI
15.6	-0.4	70.7	94.5	0.15	8.5	27.8	63.1	16.3	14.3	25.5	-0.52	-0.05	-0.098	1.07	-0.25	125.5	72.5



- Full brother to W/C Bankroll and W/C Fully Loaded out of the great Ms Werning KP 8543U
- Total package of phenotype, calving ease, balanced EPD profile, and heterozygous black
- 2020 fall calves at Shady U Ranch average 63lbs Birth Weight on first-calf heifers

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Director, Commercial and
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NLC Gen Ten 82E,
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seller in 2018 sale, and
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Semen available from
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PB SM | Polled | Black
 CDI Innovator x WHF/TK Blackrock
 12 1.3 85 127 6 26 69 API 131 TI 83



G804 / 3735234

PB SM | Homo Polled | Homo Black
 ES Epic X LRS Turning Point
 8 3.1 93 137 5 26 72 API 145 TI 89



H45 / 3780742

PB SM | Homo Polled | Black
 CCS/WHF Ol' Son x TJ Main Event
 11 1.3 84 121 5 21 63 API 141 TI 83



H365 / 3780732

PB SM | Homo Polled | Homo Black
 W/C Double Down X CDI Innovator
 11 1.7 76 103 5 25 63 API 124 TI 77



916G / 3709861

PB SM | Homo Polled | Homo Black
 WLE Copacetic X Sandeen Upper Class
 9 3.6 78 122 3 22 61 API 116 TI 76



912G / 3623711

PB SM | Homo Polled | Homo Black
 HILB Oracle X CNS Pays to Dream
 Bred to Uno Mas (Sexed Heifer)
 11 2.6 76 110 6 18 56 API 112 TI 73



921G / 3709865

PB SM | Homo Polled | Hetero Black
 Ruby SWC Battle Cry X W/C United
 Bred to THSF Lover Boy
 11 0.8 88 137 7 23 67 API 113 TI 79



545G / 3658573

PB SM | Homo Polled | Hetero Black
 OBCC CMFM Deplorabull x JF Milestone
 Bred to Hooks Blackhawk
 13 0.1 71 106 7 22 57 API 125 TI 74

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Trait	Direct					Maternal				Carcass						\$ Index		
	CE	BW	WW	YW	ADG	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	Shr	API	TI
EPD	14.0	-0.8	97.4	156.0	.37	9.9	26.0	74.7	17.9	14.6	42.6	-.44	.58	-.078	1.19	-.49	176.5	105.5
ACC	.45	.47	.46	.47	.47	.26	.19	.27	.31	.32	.49	.38	.43	.38	.47	.10		
%	15	10	2	1	1	3		5		15	10		1		5	2	1	1

EPDs as of 1.22.2021

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ADG 5.28/118 REA 16.34/106 MARB 4.34/104

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Discounts

SPRINGCREEK Tesla 6E

SPRINGCREEK MISTRESS 17B



EPDS as of 2/1/21

CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY
3.3	6.2	102	158.9	0.34	4.8	31.9	82.8	12.3
DOC	CW	YG	MARB	BF	REA	SHR	API	TI
16.5	56.9	-0.26	0.29	-0.68	0.99	-0.16	113.4	86.1

MGD: Springcreek Mistress



Tesla Yearling Photo



SIRE: LFE MCDAVID 413C

DAM: SPRINGCREEK MISTRESS 17B

WW: 1110

MGS: JL UPWARD 2250

YW: 1712

ASA # 3676428 3/4 SM 1/4 AN

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- In January 2021, there have been almost 50 calves born in the U.S. Birth Weights have averaged mid 80s on those calves. Type and kind are outstanding, he combines thickness, length and eye appeal all into a very acceptable birth weight, calf consistency is also very impressive, he seems to stamp them alike from a very young age. When the U.S. Calves are reported we expect a great improvement in Tesla's CE & BW Epsd's!!
- He is backed by a Dam with excellent structure, foot quality and udder quality. She was the high selling bred heifer in 2015 at the Springcreek Female Sale commanding \$17,000. Springcreek later acquired half interest in 17B due to recognizing her unique breeding potential. She then went on to produce the standout Tesla 6E!

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INDUSTRY UPDATE

Mineral Imbalances Need to be Considered in Cattle Deaths

Susan Himes, Texas A&M Extension

Ranchers need to keep in mind that the wrong quantities of minerals can be dangerous or even deadly to cattle, said experts from the Texas A&M AgriLife Extension Service. When it comes to cattle and minerals, what works for a rancher 700 miles away may actually work better for you than what works for a neighbor seven miles down the road; it all depends on what is in your soil, supplements, feed, forage and water supply.

"There is no one-size-fits-all approach to minerals," stressed Joe Paschal, Ph.D., AgriLife Extension livestock specialist, Corpus Christi. "What works for your neighbor's cattle won't necessarily work for you. There are a lot of factors producers must take into consideration."

"Proper livestock nutrition is a key factor in your cattle's health and productivity," added Thomas Hairgrove, DVM, Ph.D., AgriLife Extension cattle veterinary specialist in the Texas A&M University Department of Animal Science. "Knowledge of your herd's mineral status is fundamental to developing an optimal herd health program."

The key to understanding individual needs centers on the total nutrition of the herd. For example, diets high in protein and/or potassium or low-carbohydrate diets can impair magnesium absorption, said Hairgrove.

He said zinc and copper need to be absorbed in a specific ratio. Excess zinc reduces the amount of copper absorbed and excess iron or sulfur can interfere with absorption of other minerals.

"In other words, an excess or deficiency of one mineral affects how other minerals function in the animal," said Hairgrove.

Sometimes, he said, extreme cases can lead to death in a herd. So, what happens when you find a dead cow, or multiple dead cows over a period of a few months or a year? Hairgrove and Paschal hope Texas producers and veterinarians realize AgriLife Extension offers an invaluable resource.

Burleson County Case

"In Burleson County we had a producer who had almost 20 head of cattle die over a period of a year," said John Grange, AgriLife Extension agent for Burleson County. "This was an older producer in his 90s and when his son became aware of the situation, they consulted their local veterinarian." The veteri-

CONTINUED ON PAGE 58

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narian was having trouble diagnosing the issue, so she contacted Texas A&M AgriLife. Grange said once he, Paschal and Hairgrove put their heads together, they decided to conduct several tests to rule out possible causes.

“Working as a team, we conducted tests on hay, forage, soil and water samples,” he said. “Dr. Hairgrove also pulled blood and urine samples on the cattle. This case showed the importance of how strong the Texas A&M AgriLife Extension Service is and how, together, we were able to help our producer.”

Grange said they were able to rule out many common issues and get to the core problem for the producer and that by utilizing the entire team not only were they able to help this producer, but ultimately aid in another local case as well.

Testing

The Burleson County producer found most of the animals observed experienced a sudden death in the pasture. The few animals observed appeared to exhibit grass tetany signs, which are usually associated with magnesium deficiency.

Urine and blood samples were taken from 10 cows and submitted to the Texas Veterinary Medical Diagnostic Laboratory to determine mineral status. These indicated only a low serum copper status, which would not cause sudden death. Magnesium deficiency cannot always be evaluated from urine or blood.

The most sensitive and practical test to determine the animal's magnesium status and predict supplementation value requires measuring urinary creatinine and magnesium. Further testing indicated these cattle were deficient in magnesium in their diet.

CONTINUED ON PAGE 60

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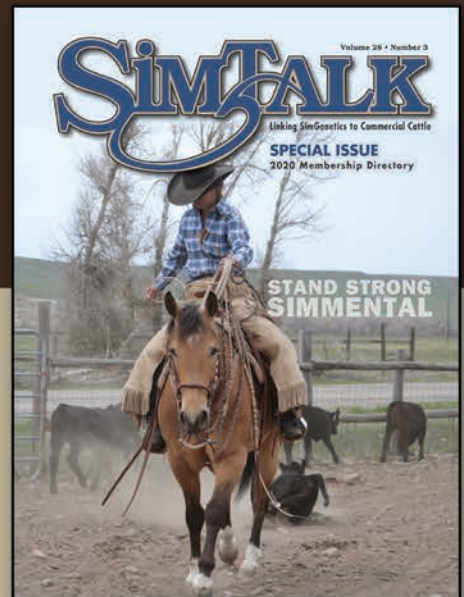
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These cows were determined to be also deficient in selenium, as shown in alternate testing strategies.

Analysis of soil, forage and water confirmed the deficient dietary status of this herd. Protein, energy and mineral supplementation based on forage, water and soil analysis began, and follow up with the owner indicates no more death loss.

“It is never as simple as putting out a mineral block and assuming that it will meet your cattle’s needs,” stressed Hairgrove. “This producer’s mineral supplementation consisted of white salt, yellow salt

and trace mineral block, yet the deaths of 20 animals appear related to their mineral status.”

Hairgrove said the take-home message is to work with your local veterinarian and AgriLife Extension county agents to interpret laboratory results relative to your cattle’s body condition, forage and water quality, and potential for disease or toxic plants.

Upshur County Case

Hairgrove and Paschal both recall other memorable cases over the past year scattered across the state. A novel case involves bison in Upshur County.

“When the producers first came to my office about their dying bison, I didn’t have a clue about bison,” said Kaitlyn Slover, AgriLife Extension agent for Upshur County. “I quickly called my regional program leader, Larry Pierce, and he pointed me in the direction of Dr. Hairgrove.”

Bison are known to have issues with internal parasites, especially with high-density stocking. After speaking with Hairgrove, Slover determined she needed to collect fecal samples to determine if internal parasitism was the cause of the deaths. Internal parasites were present, but the results of three necropsies indicated a severe mineral imbalance with high zinc and low copper liver levels.

“We also ran soil samples, water samples, forage samples and hay samples,” she said. “Through all these tests, we were able to confirm the bison were suffering from high zinc and low copper levels.”

They also consulted with Jason Banta, Ph.D., AgriLife Extension beef cattle specialist in Overton, on feed, minerals and hay. They were ultimately able to come up with a plan for the producers.

CONTINUED ON PAGE 62



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“Trying to find research on bison was our biggest struggle; that’s why the applied research we have started will be so vital to the industry as a whole,” said Slover.

Through her research and work with Hairgrove, she has learned more about bison than she ever thought possible. For example, bison require much more “bunk space” — more feed and mineral troughs.

“You can’t provide feed and minerals to bison in the same manner you would for cattle,” Hairgrove explained. “Their social structure is different from domestic cattle.”

Although cattle and bison belong to the same family, Bovidae, and share a distant ancestor, their nutrition and health needs are not the same.

“Everyone hates to hear about animals dying, but the research that we have been able to conduct because of these deaths will prove to be important for other producers worldwide for years to come,” Slover said.

Anderson County Case

In Anderson County, a producer lost four cows over about a year. This was concerning because the cattle were not old and didn’t have any apparent health issues. The producer contacted the local

AgriLife Extension office in an effort to find aid in determining the possible causes of death.

“Within Texas A&M AgriLife we are lucky to have good resources to help with situations like this,” said Truman Lamb, AgriLife Extension agent for Anderson County, who pulled together a team to help solve his stakeholder’s problem.

Joining Lamb were an AgriLife Extension veterinarian, an AgriLife Extension beef cattle nutritionist and private veterinarians. After looking at and ruling out a range of possibilities and evaluating tissues samples, it was determined that the cattle most likely died of copper toxicity.

“Unfortunately, trace mineral toxicity is becoming more common especially when producers feed multiple supplements with added trace minerals or use drenches or injectable mineral products in addition to a well-formulated mineral supplement,” said Lamb. “It is important to provide a mineral supplement, but you don’t want to overdo it as that can lead to additional problems.”

Lamb said his Anderson County case was a perfect example of how producers, AgriLife Extension personnel and private practice veterinarians can work together can help solve and prevent future problems.

CONTINUED ON PAGE 64

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	EPD	%
CED	9	30
BW	0.6	35
WW	73	10
YW	132	10
Marb	.65	40
RE	.53	55
\$W	73	15
\$B	148	25

As of 2/8/2021



	EPD	%
CE	9.4	85
BW	1.9	80
WW	82.2	25
YW	124.7	30
Marb	.54	15
REA	.65	50
API	139.7	30
TI	85.1	20

As of 2/8/2021



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“The reality is there is a lot of cropland that has been turned into pasture that is very low in soil minerals, not just nitrogen, phosphorus or potassium, but many other soil minerals too,” said Paschal. “Before putting animals out to graze on a new location, a little soil and water testing and forage analysis can go a long way. If you know what you are working with in advance, it will really be to your animals’ benefit.”

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Paschal added that “Dr. Google” doesn’t have the answers and should not be considered a reliable source and that a little testing, common sense, and best management practices can go a long way in stopping preventable deaths.

Nevada Researchers Study Cattle microRNA Effects on Meat Quality, Human Health

Team combines agriculture and nutrition programs with bioinformatics and molecular medicine.

By Mike Wolterbeek, University of Nevada Reno

A team of scientists at the University of Nevada, Reno are investigating how cattle microRNAs and the genes they influence affect the human body and health. MicroRNAs are small RNA molecules involved in the regulation of gene expression that convert DNA code into proteins that carry out cellular functions, such as development, differentiation, growth and metabolism.

The interdisciplinary team of researchers is seeking to understand how feeding cattle different diets will affect the microRNA profile in beef; how

CONTINUED ON PAGE 68



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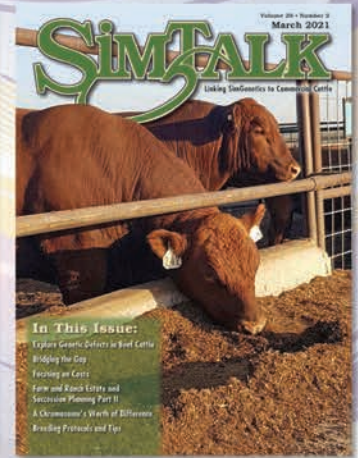
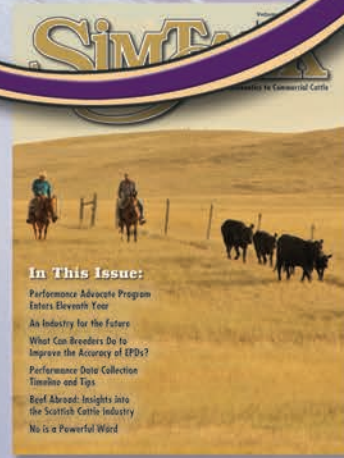
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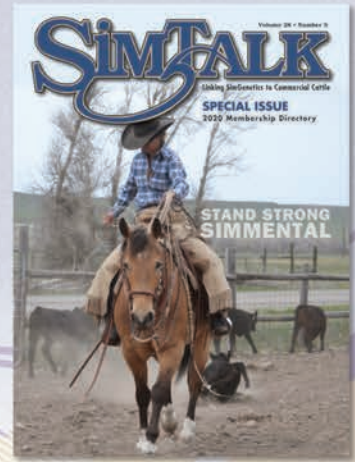
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microRNAs may be used as biomarkers for meat quality; and how these small molecules may affect human health, specifically chronic diseases. In cooked and digested beef, the team will identify microRNAs that may be absorbed by the intestines and further regulate pathways associated with cancer, coronary artery disease, apoptosis of cardiac cells, repression of breast cancer, inflammatory diseases and diabetes.

“This nutritional value relationship to elements of meat has never before done in Nevada,” Amilton de Mello, a veterinarian and assistant professor of meat science and food safety in the College of Agriculture, Biotechnology & Natural Resources, said. “We’re looking at grass fed versus grain fed — and their nutritional values. We’re not looking at vitamins and minerals, but at a molecular level, small nucleotides, part of our DNA and how much from the animal goes to our genes.”

The team, including three graduate students, will also look for biomarkers for meat tenderness when comparing grain-fed versus grass-fed cattle and map all the variables.

“We’re also looking for what modulates sensory traits like flavor and tenderness,” de Mello said.

“So we’re looking for microRNAs for tenderness and will silence the gene so it doesn’t let the meat get tough.”

Nutrigenomics, new branch of science

The team is led by de Mello. He said this work, evaluating the interactions between genomics and nutrition, is part of a new branch of science called nutrigenomics. Nutritional values of foods are commonly related to carbohydrate, fat, protein, mineral and vitamin content. But in this approach, they are looking at how microRNAs of cattle may affect human health.

“This is the first project done here in Nevada where we’ve fed animals and analyzed growth performance, meat quality and nutritional values at a molecular level,” he said. “We’re marrying our agriculture and nutrition programs, and bringing in bioinformatics and molecular medicine, looking at the nutritional value relationship to the elements of meat.”

As part of the project led by animal scientist and Assistant Professor of Agriculture Mozart Fonseca, the team remodeled the Main Station Field Laboratory feedlot to meet the needs of the research, adding gates, electronic water troughs, a weather

CONTINUED ON PAGE 70

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station, new fences, panels on fences to minimize wind and a shade structure for the animals. The 750-acre Field Lab in east Reno is part of the College's Experiment Station. Among other things, it is home to 520 cattle, of which 24 are being used in this study. All 24 cattle were pasture fed, and then as their 110-day finishing diet, 12 were grass fed and 12 were corn fed.

"First, we want to know if feeding corn or grass will increase the expression of microRNAs that silence genes that are antagonists to tenderness and fat deposition, affecting meat quality," de Mello said. "Second, we will identify the microRNAs from each type of beef – corn fed or grass fed – that are in high quantities after being digested. This will allow us to also then compare the beef microRNA profiles to other diets that do not contain animal protein. Our goal is to first understand what beef-derived microRNAs can promote at the small intestine level and then compare that with plant-based protein diets, for example."

Gene expression

The three-pronged research — animal growth performance, meat quality and the functional role of beef microRNAs in humans — will focus on identifying microRNAs in both fresh and digested beef. The microRNA profile in fresh beef will allow the team to identify biomarkers associated with the expression of genes relevant to their research.

While Fonseca is responsible for conducting the animal feeding trials at the Main Station Field Lab and for calculations for statistical and mathematical modelling, de Mello and Bradley Ferguson, in the College's nutrition department, will identify the microRNAs in digested beef that may be associated with human diseases and possibly absorbed by the human intestines after cooking and digestion. De Mello is also responsible for evaluating quality parameters of the meat and identifying the microRNAs and genes of interest that modulate genes affecting tenderness and intramuscular fat deposition. Tong Zhou, from the University's School of Medicine, will develop models evaluating which microRNAs can silence specific genes.

Ultimately, their project will identify what animal diet affects the expression or suppression of desirable microRNAs from a human nutrition standpoint, and hypothesize nutrigenomic effects on human health.

The work began in January 2020 and will run through the end of 2021, and is funded by the College's Experiment Station and Hatch Act funds.

Passive Immunity and Long-term Health of Calves

by Glenn Selk, Bovine Veterinarian

You have heard the warning: "What happens in Las Vegas, stays in Las Vegas!!!" Perhaps you have not heard: "What happens in the first 24 hours, impacts the rest of a calf's life!" Veterinary scientists, while with the USDA experiment station at Clay Center, Nebraska monitored health events and growth performance in a population of range-beef calves in order to identify associations of production factors with baby calf passive immune status.

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Blood samples were collected at 24 hours after calving from 263 crossbred calves to determine the amount of passive maternal immunity that had been obtained from colostrum. Colostrum is the first milk produced by a cow upon giving birth. The baby calves were classified with “Inadequate” or “Adequate” Passive Immune status based on that blood sample at 24 hours of age. Growth performance and health events in the study population were monitored from birth to weaning, and after weaning throughout the feedlot phase.

The lowest levels of passive immunity were observed among calves that were sick or died prior to weaning. Calves with “inadequate” passive immunity had a 6.4 times greater risk of being sick during the first 28 days of life, a 3.2 times greater risk of being sick any time prior to weaning and a 5.4 times greater risk of death prior to weaning, when compared to calves with “adequate” passive transfer. Passive immune status was also indirectly associated with growth rates through its effects on calf health. Sickness during the first 28 days of life was associated with a 35 pound lower expected weaning weight.

Based on 24 hour proteins (most of which are antibodies or immunoglobulins) in the blood, the risk of being sick in the feedlot was also three times greater for “Inadequate” compared to “Adequate” calves. Respiratory disease in the feedlot resulted in a .09 lb lower expected average daily gain. Thus, passive immunity obtained from colostrum was an important factor determining the health of calves both pre- and post-weaning, and indirectly influenced calf growth rate during the same periods. The most likely candidates for “inadequate” passive immunity are calves born to first calf two-year-old heifers. Breeding heifers to “calving ease” bulls should reduce the percentage of difficult deliveries and sluggish baby calves when born.

Also, cow calf producers can help themselves and the future owners of their calves, by properly growing replacement heifers, providing a good health program for cows and heifers, and providing natural or commercial colostrum replacers to calves that do not receive it in adequate quantities on their own. Remember that most of the transfer of antibodies from colostrum to the calf happens in the first 6 hours. The first day sets the stage for the rest of his life.

K-State Experts Offer Advice on Getting Heifers Prepared for Their First Breeding Season

Kansas State University

Anyone who has lived with teenagers can attest that their food consumption can be high as they are rapidly growing to their adult size.

In much the same way, growing beef herd replacement heifers also need to have their nutritional needs met so that they reach puberty at around 12 months of age, according to Kansas State University veterinarian Bob Larson during the recent Beef Cattle Institute Cattle Chat podcast.

“Research has shown that with a good nutritional plan, it is reasonable to expect replacement heifers to reach maturity between 11 and 13 months of age,” Larson said.

For spring calving herds grazing dormant grass or corn stalks in the winter, Larson said supplementation may be needed for optimal growth.

CONTINUED ON PAGE 74

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Veterinarian and BCI director Brad White added that January is a great time to assess the condition of the replacement heifers and plan for the necessary gain needed for breeding in the late spring.

“As we are evaluating the replacement heifer now, we need to think about how many days are left until breeding season and think about the target weight we want her to be at,” White said. “To estimate the rate of gain, take the amount of gain needed divided by the number of days left until breeding.”

Larson said that for most replacement females nine months of age, that gain will range from one to two pounds of gain per day. “Heifers that will weigh 1,200 to 1,300 pounds when they are mature will typically reach puberty by the time they weigh 750 to 850 pounds,” Larson said.

To get the most accurate measurement of weight, the veterinarians advise taking the heifers somewhere to be weighed.

“I cannot eyeball weight accurately, so I really have to run them across a scale,” Larson said.

White added: “Weight can be estimated by loading a group on the trailer and driving them across the scale to give you an idea of the average weight of the group.”

Veterinarians Raise the Bar for Bull Breeding Soundness Exams

By Rhonda Brooks, Bovine Veterinarian

A bull can look and act like he’s primed to produce offspring, but a breeding soundness exam (BSE) can help you determine his actual potential for success. Data show that one of every five bulls tested fails a breeding soundness exam, according to the Society of Theriogenology, an organization dedicated to animal reproduction. A variety of reasons for that exist, with a primary one being poor sperm morphology, says Jennifer Koziol.

“Multiple studies have shown us that about 50% of the bulls that fail breeding soundness exams do so because of poor sperm morphology,” says Koziol, DVM, MS, DACT, clinical assistant professor, Purdue College of Veterinary Medicine.

For a bull to pass a BSE as a “satisfactory potential breeder,” the Society maintains that 70% morphologically normal sperm is the standard. Along with that, a minimum of 30% progressively motile cells also remains a standard. Some practitioners say the standards set a low bar to achieve — given the potential ramifications for beef producers — and are why many are working to improve the quality of the BSEs they perform.

But like many of the procedures veterinary practitioners undertake, evaluating sperm morphology is not a simple process. “The assessment is tedious and takes time,” notes Ahmed Tibary, DVM, MS, DSc, PhD, DACT, Washington State University professor and president-elect of the Society.

Some abnormalities of semen are difficult to see with the common staining techniques practitioners use. “Slide preparation is important; when in doubt, fix semen samples in phosphate-buffered saline,” he recommends. “It’s also important to have a system to keep the slides and semen warm for evaluation of motility.”

Koziol says veterinarians need to look at sperm morphology at a high power with oil, with either brightfield or phase microscopy. “Looking at morphology slides at anything less than 1000X under oil or just looking at sperm motility and calling a bull satisfactory isn’t good enough,” she says.

Glen Jensen encourages practitioners to consider using a complete differential spermogram (CDS) in their assessment of sperm morphology. A CDS breaks down and lists each of about 24 morphological abnormalities recognized by the Society, providing a more complete picture of the bull’s sperm production and quality.

“A significant benefit comes when we utilize the potential influences each type of morphological abnormality can have on fertility,” says Jensen, DVM, Emery Animal Health & Integris Cattle, Castle Dale, Utah.

Examples of this include detached heads and distal midpiece reflexes, which he says have very little negative effect on fertility until they reach levels of between 30% and 40 % in the ejaculate. On the

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other hand, he says proximal cytoplasmic droplets, nuclear vacuoles, and pyriform heads will begin to negatively impact fertility at around 15% to 20% of the ejaculate.

“Without a CDS this information is missing, and some subfertile bulls will be used while other bulls will receive an unsatisfactory classification yet would perform well,” Jensen says. “Using a CDS, veterinarians can better help producers make informed breeding management decisions through selecting the correct bulls for optimal herd reproductive performance.”

Jensen says veterinarians need to treat semen evaluation as a diagnostic tool, then look at management, environment, and genetics to help improve overall bull, herd, and industry cattle fertility. “Too often we as veterinarians and cattlemen want to look at a BBSE as the bull is good or not, rather than a management tool where we obtain a good history, perform a reproductive exam, analyze the semen then look for ways to change or treat the problems found.”

Here are three additional considerations to help you improve the value of bull BSEs for your clients and your clinic:

1. Consider the quality of your equipment and whether you need to upgrade. Particularly, you need a good electroejaculator and a good microscope. Koziol says she doesn’t automatically subscribe to the school of thought that you must have a phase-contrast microscope. While phase contrast microscopes make it easier for you to see certain sperm morphology defects, such as nuclear vacuoles, she believes a good brightfield microscope can get the job done.

“Diadem defects (a sperm morphology abnormality) are a great way to know if your microscope is good enough or not,” she says. “If you can easily see diadem defects and recognize them on sperm morphology slides, then your microscope is good. If you never see them during an entire bull-checking season, then perhaps you should think about investing in a new microscope.”

In addition, Koziol says camera systems for microscopes have become more economical and can transmit the microscope image to a TV.

“This is a great way to add value to our examinations, as it takes the mystery away from what we are seeing in the microscope,” she says, noting that bull owners can quickly learn what normal and grossly abnormal look like.

“In my practice, owners who have observed the results will often call a bull unsatisfactory, even before I can finish counting 100 cells,” she says. “It makes my life easier when I can show an owner

why their bull is not going to cut the mustard this breeding season.”

2. Address the role of profitability. A BSE done on the ranch or farm is ideal, because the bull is acclimated to that specific environment and doesn’t have to deal with the stress of transportation. Tibary says to “work with clients so the BSE is more of a regular part of the ranch’s herd health program and part of the regular work you do for the client.”

At the other end of the spectrum, another option is to host a breeding soundness day at your clinic or a centrally located facility, where you can assemble a team to implement the process.

“It helps us concentrate our labor, and we get a lot of our bulls in the practice done in a consolidated period of time,” Koziol says. She adds the clinic often will offer a package of the exam, a dose of dewormer and annual vaccines for a special price.

“It gives the clients with a small number of bulls an economic incentive to bring them to us at the clinic,” she says. “This helps us be really efficient working in good facilities and not having to pack and unpack our whole andrology laboratory.

“During non-COVID times we have often added in a lunch and learn or dinner meeting that producers enjoyed,” she adds. “Certainly, for our larger producers we are happy to pack up and go to them and offer a volume discount for those that have 10-plus bulls for us to do at a time.”

Tibary adds that if a bull BSE is done at the clinic, the results will be most accurate when the bull arrives ahead of time for rest before the procedure is conducted. “Make sure that the personnel helping are not rushing or stressing the bulls, and always focus on safety first,” he says.

Fee-wise, Koziol says she thinks what you charge a client for the BSE likely depends on the market where you’re located. “I take a very what I call Chick-Fil-A approach to pricing for bull breeding soundness exams,” she says. “People will pay more for a quality product with great customer service and never blink an eye, but you can’t price yourself out of a job, either.”

3. Evaluate the entire bull. The physical exam is valuable for a number of reasons, says John Wenzel, Interim Associate Department Head/Extension Veterinarian, Department of Extension Animal Sciences and Natural Resources, New Mexico State University.

“In the big pasture, arid country that I practice in, bulls have to travel several miles to water, so when they become older, feet and leg/joint abnor-

CONTINUED ON PAGE 82



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EPD	13.6	-0.3	97.0	156.6	.37	9.1	23.8	72.3	16.4	18.9	48.4	-.33	.31	-.039	1.22	-.38	147.4	93.2
ACC	.41	.45	.44	.43	.43	.22	.16	.24	.26	.36	.45	.37	.44	.40	.44	.07		
%			2	2	2	15		5		1	10	20			1		15	4

EPDs as of 2.4.2021

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malities fail as many bulls as fertility issues do," he says.

Also, things like ocular cancer and scarred preputial lesions that prevent or shorten penile erection contribute to failing a bull on a BSE. "Scrotal circumference is something that I have emphasized in producer education events, because it is so important from a predictive standpoint," Wenzel explains. "In our country, the incoming bull with a satisfactory BSE may not be gathered again until it is ageing out of the bull battery, so that initial BSE is of the utmost importance. It is disheartening to see a bull that has passed a previous fertility exam that has a persistent frenulum, substandard scrotal circumference or some other abnormality that should have been picked up if a BSE was performed properly."

Tibary adds that he encourages veterinarians to work with clients to consider that the preparation of bulls for reproduction starts early, even before weaning. "Attention should be paid to every detail regarding preventive herd health and nutrition in the preparation of young bulls," he says.

The Society for Theriogenology updated its recommendations regarding BSEs in its Breeding Soundness Examination of Bulls manual, in 2018, to include: With respect to morphology, the abaxial tail implantation and the distal droplet are no longer to be categorized as abnormalities; Also, with respect to morphology, the classification scheme designating abnormalities as Primary or Secondary will be discontinued and descriptors with respect to location (Head, Midpiece, and Tail) will be utilized; With respect to motility, assessment should be by evaluation of progressive motility; the minimum standard (30% progressively motile) however was not changed.

Food Habits to Persist

Consumer food consumption and patterns of shopping which were adopted during the pandemic will likely continue well into 2021 and beyond as companies extend work-from-home policies and more and more people spend additional time cooking at home. Increased use of online ordering is one behavior expected to persist over time, while the grocer's fresh offerings, which includes bacon, beef and poultry are already generating higher-than-average sales and are attracting consumers to the stores, according to a report from Albertson's chain of groceries.

"We are encouraged that customers who are spending more time at home are looking to us for the high-quality fresh product we supply. We believe that purchases of fresh product drive trips as our loyal customers often stock up on shelf stable items during one trip, but come back frequently for fresh product," the company said in a press release.

The retailer also reported net income more than doubled in the third quarter which ended December 5, driven in part by digital sales growth of a whopping 225%. Albertsons is investing heavily to support online sales and is ahead of schedule in expanding the curbside pickup service. In the fresh end of the business, the company is expanding its ready-to-eat, ready-to-heat, and ready-to-cook meal offerings that are growing in popularity as alternatives to cooking from scratch.

Genetic Engineering Monitoring

The United States Department of Agriculture (USDA) is proposing a regulation on the movement of animals modified or developed by genetic engineering, a follow up to the agency's move to assume all regulatory oversight of genetically engineered animals raised for food. USDA said it is "soliciting public comment on establishing regulations for the movement of certain animals modified or developed using the controversial procedure.

The Animal and Plant Health Inspection Service would conduct a safety assessment of animals subject to the Federal Meat Inspection Act or Poultry Products Inspection Act that have been modified or developed using genetic engineering that could increase the animal's susceptibility to pests or diseases of livestock, including zoonotic diseases or the ability to transmit diseases. The Food Safety and Inspection Service would conduct a pre-slaughter food safety assessment to ensure that the slaughter and processing of certain animals modified or developed using genetic engineering would not result in a product that is adulterated or misbranded. The Agriculture Department is seeking transition portions of existing animal biotechnology regulatory oversight, now with the Food and Drug Administration, to USDA, which has promised would be done in consultation with FDA.

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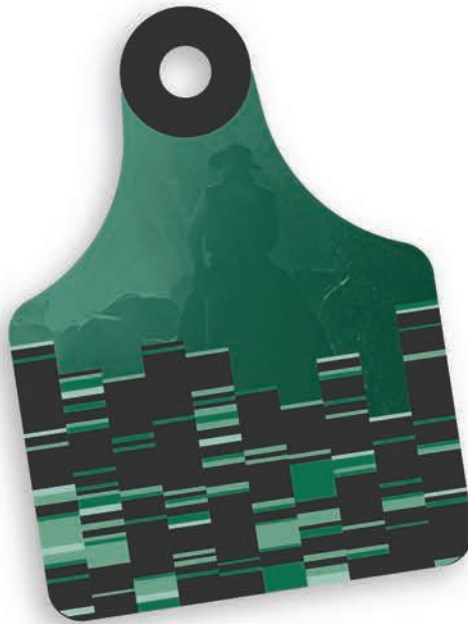
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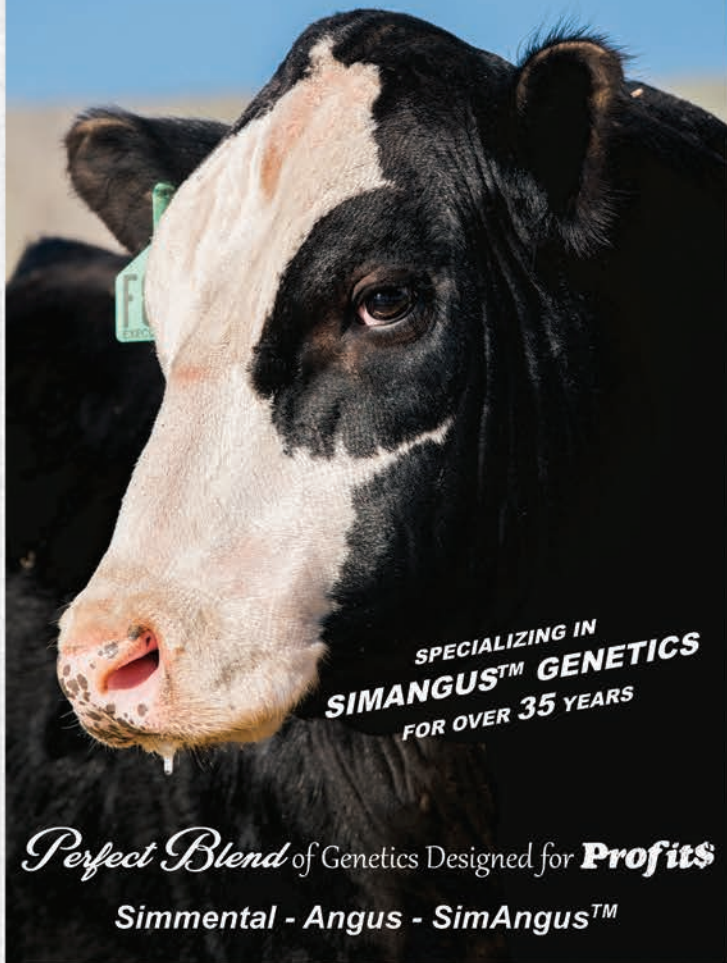




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(Continued from page 89)

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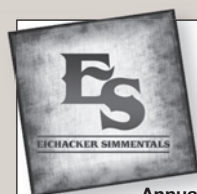
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CALENDAR

MARCH

- 1 Hanel's Black Simmentals' Black and White Bull Sale — Courtland, KS
- 1 RS&T Simmentals' Bull Sale — St. Joseph, MO
- 2 Doll Simmental Ranch's 41st Annual Production Sale — Mandan, ND
- 2 Hill's Ranch's Bull Sale — Stanford, MT (pg. 89)
- 3 Klein Ranch's Annual Production Sale — Atwood, KS
- 4 17th Annual Cattleman's Kind Bull Sale — San Saba, TX
- 4 Brink Simmentals' Phone Auction — www.brinkgenetics.com
- 4 Kearns Cattle Company's 32nd Annual Bull Sale — Rushville, NE
- 4 Keller Broken Heart Ranch's Annual Sale — Mandan, ND (pg. 90)
- 5 Eichacker Simmentals' Annual Bull and Female Sale — Salem, SD (pg. 91)
- 5 KSU's Annual Legacy Sale — Manhattan, KS
- 6 Cason's Pride and Joy Bull Sale — Russell, IA
- 6 Kentucky Beef Expo Sale — Louisville, KY
- 6 Mason's Angus and SimAngus Production Sale — Broken Bow, NE
- 6 Powerline Genetics' PAP Tested Bull Sale — Castle Dale, UT
- 6 Trinity Farms' Generations of Excellence Sale — Ellensburg, WA (pg. 91)
- 7 Gateway Genetics' Bull Sale — Pierce, NE
- 7 Gold Bullion Group's Annual Bull Sale — Wamego, KS
- 8 Rincker Simmentals' Sweet 16 Bull and Semen Sale — www.sconlinesales.com
- 10 R.A. Brown Ranch's 6th Annual Spring Bull Sale — Throckmorton, TX
- 11 Schmig Simmental Ranch's 38th Annual Production Sale — Stockholm, SD
- 11 TF-Brand Genetics Sale — Middletown, IN
- 12 Yardley Cattle Company's 48th Annual Bull Sale — Beaver UT
- 13 C&C Farms' Clear Vision Spring Production Sale — Winder, GA
- 13 Carcass Performance Partners Bull and Female Sale — Lucedale, MS
- 13 Dikeman and Huninghake Premium Genetics Bull Sale — Westmoreland, KS
- 13 Great Lakes Beef Connection — Clare, MI (pg. 60)
- 13 Northwest Select Simmental Sale — Stanley, ND
- 13 Tennessee Beef Agribition — Lebanon, TN
- 14 Gonsior Simmental's Production Sale, Fullerton, NE
- 15 Volk Livestock's "The Genetics Options Event" — www.sconlinesales.com
- 16 Powerline Genetics' Bull Sale — Arapahoe, NE
- 16 Schrader Ranch's Bid Off Sale — Wells, KS (pg. 23)
- 18 Triangle J-SK Cattle Production Sale, Aberdeen Livestock — Aberdeen, SD (pgs. 16-17)
- 19 3C Christensen Ranch and NLC Simmental Ranch 50th Annual Production Sale — Wessington, SD (pgs. 81, 91)
- 19 Sunflower Genetics' Annual Production Sale — Maple Hill, KS (pgs. 87, 88)
- 20 Altenburg Super Baldy Ranch's 29th Annual Bull Sale — Fort Collins, CO (pg. 103)
- 20 Cattlemen's Choice Sale, Fredonia, KS
- 20 Dickinson Ranch's 50th Annual Production Sale — Gorham, KS (pg. 83)
- 20 Lechleiter's 33rd Annual Bull Sale — Loma, CO (pg. 88)
- 20 MCA/MSU Bull Evaluation Sale — Crystal, MI
- 20 Ohio Beef Expo/Eastern Spring Classic Sale — Columbus, OH (pg. 41)
- 20 R&R Genetics' 11th Annual Bull and Heifer Sale — Tremonton, UT
- 20 Red Hill Farms' "More Than a Bull XVI" Sale — Lafayette, TN (pgs. 91, 104)
- 20 Rockin' H Simmental's Production Sale, Canby, MN (pg. 69)
- 22 All Terran Bull Sale — Wash, CO (pgs. 88, 102)
- 22-23 Alamo City Simbrah Online Sale — www.baringcattlecompany.com
- 24 Diamond H Ranch's Annual Bull and Heifer Sale — LaCrosse, KS (pg. 29)
- 26 Drake Cattle Company's Bull Sale — Centerville, IA
- 26 Spring Into Excellence Simmental Sale — Pennsylvania Furnace, PA
- 26 Vertical Edge Production Sale — Bancroft, ID (pg. 58)
- 27 T-Heart Ranch's High-Altitude Bull Sale — LaGarita, CO (pgs. 12-13, 88)
- 27 The Clear Choice Bull Sale, Milan, IN (pg. 67, 88)
- 27 Wildberry Farms' Annual Production Sale — Hanover, IL, (pgs. 100-101)
- 31 Open Gate Ranch's 41st Annual Bull Sale — Simms, MT (pg. 63)

APRIL

- 1 Midland Bull Test Sale — Columbus, MT
- 2 CK Bar Ranch's Bull Sale — St. Onge, SD (pg. 6)
- 2 South Dakota State University's Bull Sale — Brookings, SD (pg. 62)
- 3 18th Annual "Pick of the Pen" Bull Sale — Blacksburg, VA (pg. 10)
- 3 64th Annual Wisconsin Beef Improvement Performance Bull Sale — Platteville, WI (pg. 64)
- 3 Belles and Bulls of the Bluegrass — Lexington, KY (pg. 51)
- 3 Big Country Genetics Bull Sale — Powell, WY
- 3 The Gathering at Shoal Creek — Excelsior Springs, MO (pg. 71)



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ASA# 3818147

API: 133 TI: 82

G933 | 3/4 SM

TJ MAIN EVENT x TOP GRADE x ELEGANCE 144Y

CE	BW	WW	YW	MCE	MILK	MARB	REA
11	1.4	85	129	5	29	0.24	0.92



ASA# 3818144

API: 127 TI: 78

G923 | PUREBRED | HOMO POLLED

HOOKS BROADWAY x RED JEWEL

CE	BW	WW	YW	MCE	MILK	MARB	REA
5	4.5	80	121	3	26	0.24	0.79



ASA#3769083

API: 129 TI: 78

G960 | 5/8 SM

TJ MAIN EVENT x RHODES MINA

CE	BW	WW	YW	MCE	MILK	MARB	REA
12	-0.1	76	117	6	29	0.24	0.72



ASA# 3769054

API: 128 TI: 81

G967 | SIMANGUS™ | HOMO BLK & HOMO PLD

TJ MAIN EVENT x MF VANILLA BEAN

CE	BW	WW	YW	MCE	MILK	MARB	REA
9	2.5	88	136	5	25	0.25	0.65



ASA# 3818157

API: 118 TI: 78

H100 | 3/4 SM

TJ MAIN EVENT x LOCK N LOAD

CE	BW	WW	YW	MCE	MILK	MARB	REA
11	1.7	86	134	4	26	0.07	1.08



ASA# 3769052

API: 126 TI: 80

H118 | PUREBRED

WS BEEF KING x STF LOCKOUT

CE	BW	WW	YW	MCE	MILK	MARB	REA
11	3.1	84	120	5	22	0.12	1.07



ASA# 3769121

API: 128 TI: 82

H140 | SIMANGUS™

TJ MAIN EVENT x SAV BISMARCK

CE	BW	WW	YW	MCE	MILK	MARB	REA
12	1.4	88	130	6	31	0.17	0.94



ASA# 3687058

API: 130 TI: 79

G905 | PUREBRED

WRS EMERGENT x JF MILESTONE

CE	BW	WW	YW	MCE	MILK	MARB	REA
13	0.8	79	120	7	19	0.12	0.82



ASA# 2709911

API: 91 TI: 58

230Z | PUREBRED | BRED TO TJ MAIN EVENT

SVF STEEL FORCE x SWAIN QUEEN 403P

CE	BW	WW	YW	MCE	MILK	MARB	REA
9	2.8	62	88	4	13	-0.18	0.75



ASA# 2992742

API: 99 TI: 70

C167 | TNT TANKER CARRYING HEIFER CALF PREGNANCY

W/C RELENTLESS x RIGHT TO LOVE Z338

CE	BW	WW	YW	MCE	MILK	MARB	REA
4	5.3	89	140	5	27	-0.08	0.93



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CALENDAR

CONTINUED

APRIL (Cont.)

- 6 Gerber Right Kind Sale — Richmond, IN (pg. 31)
- 7 80th Annual Kansas Bull Test — Wamego, KS (pg. 7)
- 9 Trennepohl Farms' "Back to the Farm" Bull and Female Sale — Zanesville, OH
- 10 Hilbrands Cattle Company's Passion 4 Perfection Sale — Clara City, MN (pg. 73)
- 10 The Spring Turnout Sale — Worthing, SD (pg. 93)
- 12 Nelson Livestock Company's Annual Production Sale — Wibaux, MT (pgs. 49, 89)
- 13 Powerline Genetics and Seward Cattle Company's High Altitude Bull Sale — Arapahoe, NE
- 14 The Trennepohl Top 10 Sale — Middletown, IN
- 16 Virginia Spring SimSensation Sale — Harrisonburg, VA
- 17 Diamonds and Spurs Sale at Owen Bros Cattle Company — Bois d'Arc, MO
- 17 New Day Genetics' Spring Bull Sale, — Salem, MO
- 17 OBCC Diamonds and Spurs Sale, Bois d'Arc, MO
- 24 Heartland Performance with Class Bull Sale — Waverly, IA (pg. 75)
- 24 The Clear Choice Customer Sale — Milan, IN (pg. 88)

MAY

- 1 Stars and Stripes Sale — www.dponlinesales.com
- 8 Banners and Beyond Sale — Jefferson, GA
- 10 Maternal Monday — Red Hill Farms — www.dponlinesales.com
- 22 2nd Annual Get Back To Grass Sale — Henderson, TX

JUNE

- 2-5 AJSA Eastern Regional Classic, Cookeville, TN
- 9-12 AJSA South Central Regional Classic, Springfield, MO
- 16-19 AJSA Western Regional Classic, Sandpoint, ID
- 26-7/2 AJSA National Classic, Grand Island, NE

SEPTEMBER

- 4 North Carolina Fall Harvest Sale, Union Grove, NC
- 8 Trauernicht Simmental's Customer Appreciation Event, Wymore, NE
- 11 Kentucky Fall Sale, Lexington, KY
- 15 Gonsalves Ranch's Bulls Eye Breeders Angus and SimAngus™ Bull Sale — Modesto, CA
- 18 Family Matters Sale — Auburn, KY
- 25 Head of the Class Sale — Louisburg, KS

OCTOBER

- 2 Buckeye's Finest Sale — Zanesville, OH (pg. 90)
- 8 Ladies of the Lone Star Sale — Grand Saline, TX
- 9 New Direction Sale — Seward, NE (pg. 90)
- 11 Burlap and Barbed Wire Vol. VI Female Sale — Clay Center, KS
- 16 Fred Smith Company Ranch's Extra Effort Sale — Clayton, NC (pg. 90)
- 16 MN Beef Expo - White Satin On Ice and All Breeds Sale — Minneapolis, MN
- 23 Clear Choice Female Sale — Milan, IN
- 30 High Ridge Farms' Genetic Opportunity Sale — Albemarle, NC
- 30 Red Hill Farms' Bulls and Females of Fall VII Sale — Lafayette, TN
- 30 Yon Family Farms Spring Sale — Ridge Spring, SC

NOVEMBER

- 6 Cason's Pride and Joy Elite Female, Sale, — Russell, IA
- 6 Dakota Ladies Sale — Worthing, SD
- 6 Irvine Ranch Annual Production Sale — Manhattan, KS
- 7 Triangle J Ranch's Female Sale - Miller, NE
- 13 Gibbs Farms' 16th Annual Bull and Replacement Female Sale — Ranburne, AL
- 15 Bichler Production Sale — Linton, ND (pg. 57)
- 19 Heartland Simmental's Performance with Class Sale — Waverly, IA
- 27 Chestnut Angus Female Sale — Pipestone, MN
- 27 Felt Farms' Foxy Ladies Sale — West Point, NE

DECEMBER

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

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CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
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March 2022	Jan 20	Jan 28	Feb 10	March 2

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ASA# 3803217 • Homo Black • Homo Polled • Sire: Drake Poker Face 2X • Dam: SAS Licorice D092 (Erixon Bitten daughter)
Purebred Simmental • BW: 92 • Adj. WW: 813 • IMF: 4.53 (104) • BF: .20 (83) • REA: 17.19 (107) • Act SC: 40cm

CE	BW	WW	YW	MCE	MM	MWW	STAY	CW	YG	Marb	BF	REA	API	TI
10.7	2.2	83	121	5.9	31	73	16	38	-.59	.12	-.131	1.19	130	82
50	65	25	35	50	10	10	55	20	1	50	1	5	45	30

*EPDs as of 2/12/2021



SAS Licorice D092 - Dam of Big Casino



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CATTLE COMPANY



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(507) 380-3074

Robert & Andrew Stevens
(507) 327-0414

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SAPI: 208
STI: 108

CLRS Guardian 317G

Hook's Beacon 56B x CLRS Always Xcellent
ASA# 3563436 • Homo Black • Homo Polled
Guardian was the \$85,000 selection in the 2020 "Bred For Balance" Sale. He's the breed's #1 SAPI Purebred and #2 Marbling Purebred!



SAPI: 137
STI: 85

CCS/WHF OI' Son 48F

CDI Innovator 325D x WHF Summer 365C
ASA# 3452997 Homo Black Homo Polled
OI' Son is one of the newest and HOTTEST bulls on the market! Siring champs for JS Simmental in his first calf crop!



SAPI: 112
STI: 74

Ruby/SWC Gentleman's Jack

One Eyed Jack x Upgrade
ASA# 3134708 • Homo Black • Homo Polled
Producing extremely sound, deep-sided, high-quality progeny! His first crop of heifer calves has produced champions at the highest levels!



SAPI: 108
STI: 72

SC Pay the Price C11

Pays to Dream x Trademark
ASA# 2988788 • Homo black • Hetero polled
Two-time NWSS Grand Champion Bull



SAPI: 137
STI: 83

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!



SAPI: 115
STI: 66

TNGL Imprint D989

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



SAPI: 122
STI: 74

OBCC CMFM Deplorable D148

W/C Executive Order x LazyH/Adkins Blkstr Z15
ASA# 3150188 • Homo Black • Homo Polled
Newly on the open market for 2021! Deplorable is the \$100,000 valued herd sire prospect that was the talk of Kansas City and Louisville in the fall of 2016. He was named Bull Calf Champion at both the American Royal and the NAILE.



SAPI: 118
STI: 83

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!



SAPI: 110
STI: 82

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!



SAPI: 130
STI: 89

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.



SAPI: 109
STI: 72

Felt Perseverance 302F

W/C Executive Order 8543B x Rubys Rhythm Z231
ASA# 3493800 • Hetero Black • Homo Polled
Perseverance is a new, exciting baldy Executive Order son with tremendous maternal genetics behind him. The first dozen calves out of him have been born light and easily out of first calf heifers.



SAPI: 119
STI: 80

W/C CEO 005G

CDI CEO x 8543U (Dream Catcher)
ASA# 3644998 • Homo black • Homo polled
\$120,000 high seller from Wernings production sale.



SAPI: 120
STI: 72

WHF/JS/CCS Double Up G365

W/C Double Down x WHF Summer 365C
ASA# 3658592
Double Up is by proven calving ease sensation Double Down out of the legendary WHF/Steenhoek multiple time champion WHF Summer 365C.



SAPI: 130
STI: 78

VOLK Backdraft CC F810

W/C Executive Order 8543B x JS Flatout Flirty
ASA# 3528566 • Red • Polled
Backdraft owns unrivaled maternal strength, combining infamous breed-leaders "Flatout Flirty" and "Miss Werning KP 8543U".



SAPI: 114
STI: 73

PBF Red Paint F88

W/C Executive Order x Built Right
ASA# 3500551 • Red • Polled
Hot, red, calving ease bull. 2019 Iowa State Fair Division Champion!



SAPI: 123
STI: 72

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!



SAPI: 119
STI: 74

GEFF County O 736E

Loaded Up x RAJE/PB Montecito 63W
ASA# 3289219 • Hetero Black • Homo Polled
County O goes back to the Rhythm donor at Ruby's! He's a featured herdsire at Griswold Cattle Co, OK and is making the right kind!



SAPI: 113
STI: 75

W/C Double Down 5014E

W/C Executive Order X Yardley Utah
ASA# 3336150 • Homo black • Homo polled
Double Down has now proven himself with scores of very nice calves, and as expected, has stretched the necks, yet provides the rib the industry is demanding in the show room and the pastures.



SAPI: 106
STI: 69

JSUL Something About Mary 8421

W/C Relentless 32C x JBSF Proud Mary
ASA# 3565879 • Black • Polled
His pedigree, Relentless (Utah x 8543U) x JBSF Proud Mary (High Regard x Steel Magnolia), just solidifies the ability to transmit maternal, in fact it shouts it!

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1:00 pm • Hanover, IL



Bred to WBF First Response F029 Due 3/17/2021

G618 // ASA 3592373 // PB SM
BLACK, POLLED CLRS DIVIDEND 405D HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
14.1	0.2	79	120.8	7.3	23.1	62.6
DOC	CW	YG	MARB	REA	API	TI
0.3	32.9	-0.2	0.3	0.57	146.3	84.1



Bred to HBHR HighWayMan G076 Due 3/16/2021

G623 // ASA 3592378 // 5/8 SM 3/8 AN
BLACK, POLLED BROWN ADV N. RIDE D4342 HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
15.5	-1.2	62.4	96.7	8.1	20.2	51.4
DOC	CW	YG	MARB	REA	API	TI
7.5	29	-0.13	0.47	0.46	147.9	75.6



Bred to WBF First Response F029 Due 4/23/2021

G636 // ASA 3592389 // 1/4 SM 3/4 AN
BLACK, POLLED BARSTOW BANKROLL B73 HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
19	-4.6	67.2	116.8	10.8	21.7	55.2
DOC	CW	YG	MARB	REA	API	TI
9.5	45	0.11	0.65	0.31	158.4	85.7



Bred to WBF First Response F029 Due 3/2/2021

G668 // ASA 3592420 // 3/4 SM 1/4 AN
BLACK, POLLED ACW IRONHIDE 395Y HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
12.1	0	77.3	121.4	5.7	22.5	61.1
DOC	CW	YG	MARB	REA	API	TI
17.8	44	-0.29	0.24	0.84	129.1	78.3



Bred to WBF First Response F029 Due 3/2/2021

G672 // ASA 3592424 // 1/2 SM 1/2 AN
BLACK, POLLED BARSTOW BANKROLL B73 HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
11.9	-0.1	71.9	118.4	6.9	16.6	52.6
DOC	CW	YG	MARB	REA	API	TI
10.2	38.6	-0.11	0.42	0.46	144.1	78.4



Bred to HBHR HighWayMan G076 Due 3/28/2021

G675 // ASA 3592426 // 1/2 SM 1/2 AN
BLACK, POLLED W/C UNITED 956Y HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
13.8	-1.4	71.2	116.6	8.8	21.6	57.1
DOC	CW	YG	MARB	REA	API	TI
4.9	33.2	-0.06	0.26	0.45	126.7	75.9

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Bred to WBF First Response F029 Due 2/20/2021

G691 // ASA 3592442 // 1/2 SM 1/2 AN
BLACK, POLLED WBF DEEP POCKETS D092 HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
8.4	0.7	67.6	103.2	3.7	21	54.7
DOC	CW	YG	MARB	REA	API	TI
15.6	35.7	-0.21	0.17	0.74	113.5	68.2



Bred to WBF First Response F029 Due 3/30/2021

G740 // ASA 3592486 // 3/4 SM 1/4 AN
BLACK, POLLED WBF DOWNTOWN D054 HEIFER.

CE	BW	WW	YW	MCE	MILK	MWW
7.7	1.4	63.2	102.4	3.4	26.2	57.8
DOC	CW	YG	MARB	REA	API	TI
11.1	26.7	-0.13	0.23	0.34	114	66.6



H033 // ASA 3723308 // PB SM
BLACK, POLLED HOOK'S BLACK HAWK SOB BULL.

CE	BW	WW	YW	MCE	MILK	MWW
16.9	-1.9	88.5	133.1	10.4	21.5	65.7
DOC	CW	YG	MARB	REA	API	TI
16.6	43.5	-0.34	0.31	1.08	161.5	93.2



H046 // ASA 3723321 // PB SM
BLACK, POLLED CLRS DIVIDEND 405D BULL.

CE	BW	WW	YW	MCE	MILK	MWW
15.1	-0.3	80.6	125.8	7.4	22	62.2
DOC	CW	YG	MARB	REA	API	TI
11.1	35.9	-0.28	0.29	0.78	148.8	85.9



H044 // ASA 3723319 // PB SM
BLACK, POLLED BCLR PAYLOAD E552C BULL.

CE	BW	WW	YW	MCE	MILK	MWW
5.3	3.9	89.1	138.2	2.7	26.1	70.6
DOC	CW	YG	MARB	REA	API	TI
17.9	35.9	-0.39	0.25	0.91	129.4	84.5



H163 // ASA 3723619 // PB SM
BLACK, POLLED NLC GEN TEN 82E BULL.

CE	BW	WW	YW	MCE	MILK	MWW
14.9	-1.9	63.6	91.4	8.9	31.9	63.7
DOC	CW	YG	MARB	REA	API	TI
8.4	24	-0.31	0.42	0.6	161.4	81.6



H125 // ASA 3723397 // 1/2 SM 1/2 AN
BLACK, POLLED WBF IRON CLAD E053 BULL.

CE	BW	WW	YW	MCE	MILK	MWW
12.1	0.7	77.4	128.4	7.7	24.1	62.8
DOC	CW	YG	MARB	REA	API	TI
9.8	48.3	-0.15	0.2	0.62	126.1	76.2



H052 // ASA 3723325 // 3/4 SM 1/4 AN
RED, POLLED CDI MAVERICK 335B BULL.

CE	BW	WW	YW	MCE	MILK	MWW
10.3	1.8	82.1	127.3	4.4	33.6	74.6
DOC	CW	YG	MARB	REA	API	TI
10.8	31	-0.28	0.48	0.84	146.1	85.6



H074 // ASA 3723346 // 1/2 SM 1/2 AN
BLACK, POLLED CCR 707 COWBOY 6055B BULL.

CE	BW	WW	YW	MCE	MILK	MWW
16.8	-1.5	66.5	107	9.9	19.6	52.8
DOC	CW	YG	MARB	REA	API	TI
7.6	33.9	-0.14	0.31	0.6	147.1	75



H126 // ASA 3723398 // 5/8 SM 3/8 AN
BLACK, POLLED TNT WIDE RANGE E324 BULL.

CE	BW	WW	YW	MCE	MILK	MWW
17.8	-3.3	76.4	118.9	10.3	24.8	63
DOC	CW	YG	MARB	REA	API	TI
10.9	36.7	-0.19	0.4	0.78	155.5	86



H171 // ASA 3723438 // 5/8 SM 3/8 AN
BLACK, HOMO POLLED RUBY SWC MADDEN D665 BULL.

CE	BW	WW	YW	MCE	MILK	MWW
13.1	2.9	86.6	133	5.9	20.5	63.8
DOC	CW	YG	MARB	REA	API	TI
12.4	37.2	-0.22	0.44	0.63	139.2	84.8

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ASR G9302

ASA#3692217 • Proclamation x RCR Augustus



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ASA# 3782839 • Broad Range x All Around



ASR G9261

ASA# 3692182 • Dividend x Cowboy Cut



ASR G9331

ASA# 3692246 • Tehama Tahoe x Wide Track



ASR G9264

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11.6	-0.6	85.8	143.2	0.36	6.8	5	47.8	19.9	16.3	38.6	-0.43	0.75	-0.062	1.24	173.1	96.1
60%	30%	15%	10%	3%	50%	99%	99%	4%	10%	30%	5%	3%	25%	15%	2%	2%

*EPDs as of 2-10-21

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MR SR Highlife G1609

ASA# 3568376 || PB SM

CE	YW	SAPI	STI
15.3	1472	158.9	95.0



KBHR High Road E283

ASA# 3312276 || PB SM

CE	YW	SAPI	STI
15.1	155.1	178.9	109.7



GIBBS 7124E Stonewall

ASA# 3405044 || 1/2 SM 1/2 AN

CE	YW	SAPI	STI
16.1	131.4	166.8	96.4



EGL Cinched 116F

ASA# 3498948 || 1/2 SM 1/2 AN

CE	YW	SAPI	STI
21.1	115.1	169.8	93.6



GIBBS 7382E Broad Range

ASA# 3404807 || PB SM

CE	YW	SAPI	STI
14.7	153.1	163.3	97.5



TJ Stone Cold 336G

ASA# 3611790 || 5/8 SM 3/8 AN

CE	YW	SAPI	STI
17.3	134.9	161.3	95.1



GIBBS 9114G Essential

ASA# 3716905 || PB SM

CE	YW	SAPI	STI
12.0	183.4	172.9	109.1



C-3 Ground Breaker NS G953

ASA# 3708449 || 1/2 SM 1/2 AN

CE	YW	SAPI	STI
11.8	148.3	168.6	96.3

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GW Movin On 183C	Gibbs Bronco
GW Sparky 369E	Bar CK Pendleton
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