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Powerline Genetics: Progress Through Collaboration

Genetic Evaluation: A Team Sport

Data-Driven Decisions

Why Use EPD and Indices to Make Decisions for Bull Sales?

IGS Carcass EPD Update

AMERICA'S COV

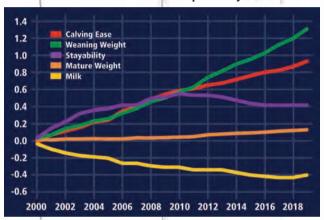
Simmental, SimAngus™, SimAngus HT, and Simbrah.

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

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

Maternal Trait Genetic Trends

Purebred Simmental in past 20 years



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

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

\$All Purpose Index (\$API)

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

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

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

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

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

MORE MORE

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

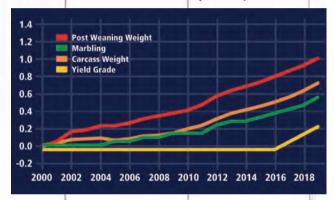
Simmental calves reliably perform in the feedyard – with better growth, better structure and fewer health problems. Simmental cattle add pounds without sacrificing marbling.

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

All to strengthen your bottom line.

Terminal Trait Genetic Trends

Purebred Simmental in past 20 years



\$Terminal Index (\$TI)

predicts profitability when all calves are harvested.

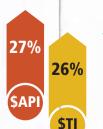
Trait	Simmental rank compared to other Continental breeds
Marbling	First
Carcass Weight	Second
Back Fat	Second
Post Weaning Gain	First
Carrage LICDA MADC	

Source: USDA MARC

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

Did You Know?

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

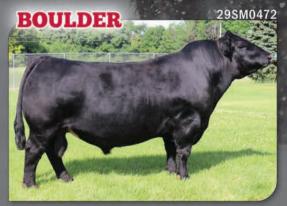


◆ \$API increased 27% and \$TI increased 26% in the last 20 years. This translates to an average increased profit of \$3,375 per bull when used to sire replacement heifers and harvesting remaining calves or \$2,000 when all calves are harvested.

make matings

Your ABS Representative is equipped with the finest people, technology, research, quality, and genetics. We have the ability to ensure the long term direction of your herd is on track and to make your breeding program a success. Together, we can accomplish your goals.

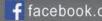
BREED LEADING PERFORMANCE

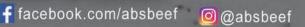


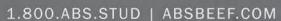
CCR BOULDER 1339A ASA 2880390



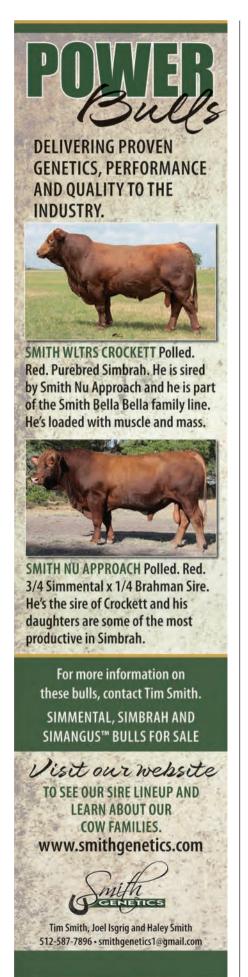
REDHILL 672X X004 231A ASA 2847534













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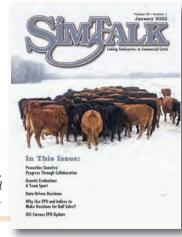
EPD and indices are valuable selection tools, and can be especially useful when selecting your next herdsire.

by Chad Russell, master of science student with Dr. Spangler at the University of Nebraska–Lincoln

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As winter settles in across the country, many producers are busy feeding and preparing for calving. Photo by Kate Giess.



YOUR HEIFERS ARE COUNTING ON YOU – AND YOU ARE COUNTING ON YOUR HEIFERS



7SM93 KOCH BIG TIMBER 6850

3133113 / Yellowstone x Lucky Boy / Purebred / Homo Polled / Home Black

- BIG TIMBER is a proven, big-time calving ease sire who works on a wide array
 of pedigrees.
- He ranks as the No. 5 registration sire in the breed and excels for high API and TI.
- BIG Timber has seen lots of use in commercial country due to the multitude of good traits he offers.

From Gibbs Farms Cattle, LLC, AL; Triangle J Ranch, NE and Koch Cattle, MT

	CE	BW	WW	YW	MCE	MILK	MWW	STAY	DOC	CW	YG	MARB	BF	REA	API	TI
EPD	15.5	-4	76.5	114.3	6.6	33.2	71.4	15	9.5	29.6	20	.29	045	.55	150.7	88.4
Acc	.84	.93	.91	.90	.70	.68	.74	.47	.38	.77	.59	.73	.69	.75		
% Rank	5	1	50	50	35	3	10	75	75	50	99	20	99	99	15	10



7SM124 WS ENHANCEMENT 25H

3764886 / Proclamation x Beacon / Purebred / Homo Polled / Home Black

- Wow, what an opportunity! Here's a calving ease prospect with overall presence, correctness and eye appeal.
- One of Proclamation's highest-ranking sons from a balanced Beacon daughter.
- ENHANCEMENT is easily justified as a sire to improve lots of categories in your breeding program.

From Wilkinson Simmentals, ND and Gibbs Farms Cattle, LLC, AL

	CE	BW	WW	YW	MCE	MILK	MWW	STAY	DOC	CW	YG	MARB	BF	REA	API	TI
EPD	16.7	-3.9	84.1	127.1	11.1	34.5	76.5	17.4	15.7	50.7	33	.80	055	1.14	189.2	106.7
Acc	.48	.51	.50	.51	.30	.23	.32	.31	.21	.51	.41	.47	.44	.49		
% Rank	3	1	25	25	1	2	3	50	10	3	90	1	95	10	1	1



7SM97 IR IMPERIAL 0948

3210738 / Imperial x Dual Focus / Purebred / Homo Polled / Red

- IMPERIAL provides a stunning red phenotype and creates balanced, moderatesized offspring.
- He's the highest API sire in our Simmental lineup and is the No. 11 registration sire in the breed!
- IMPERIAL's heifer-safe Calving Ease and unique pedigree make him a perfect choice for virgin heifers.

From Jevine Ranch, KS; TNT Simmentals, ND and Schnabel Ranch, SD

	CE	RM	ww	YW	MUE	MILK	MWW	STAY	DUC	CW	16	MAKE	Br	KEA	API	- 11
EPD	17.8	-3.2	61.3	97.8	8.7	19.7	50.3	19.8	15.4	17.4	52	.92	079	1.10	193.3	94.9
Acc	.79	.91	.88	.88	.53	.45	.55	.36	.52	.65	.51	.64	.55	.64		
% Rank	1	2	99	85	10	80	99	20	10	95	10	1	80	15	1	3

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YOUR SUCCESS Dur Passion.

EPDs as of 12/16/21

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FROM THE EDITOR by Lilly Platts



Lilly Platts

I hope this issue of SimTalk finds everyone well and enjoying the first weeks of 2022. As I write this, the editorial deadline for this issue of SimTalk is here and I'm just a few days away from spending Thanksgiving with my family. Editorial deadlines are always way ahead of the print date, which makes writ-

ing something you all won't be reading until the next year a little tricky.

While I'm ahead of the New Year, it isn't too early to reflect. I used to think New Year's reflection and resolutions were a setup for disappointing yourself over the coming year. However, the older I get, the more I appreciate taking a pause to reflect on the changes of the past year. Practicing gratitude is also one of those things I used to turn my nose up at, but I've come to really value taking time to appreciate my life. To be clear, gratitude is not looking at people who have less than you to then feel better about yourself. That's just being a jerk.

Baxley Family Farms
Annual Cattle Sale January 15, 2022 Baxley Family Farms Cow Barn 1129 Altman Avenue • Georgetown, SC 29440 Lunch will be served at noon Sale will begin at 1:00 pm Offering: 35 Yearling Simmental, SimAngus™, Angus Bulls 35 Open Yearling SimAngus™ Heifers 4 SimAngus™ First-Calf Heifers (calves by side) Stone Cold owned by Baxley Family Farms, LLC and Gibbs Farms TJ Stone Cold 336G Baxley Family Farms, LLC 4490 Rose Hill Road Georgetown, SC 29440 Lloyd Baxley - 843-325-8821 Connie Baxley - 843-325-6146 baxleyfamilyfarmsllc@yahoo.com

But if the idea of practicing gratitude piques your interest, I strongly suggest digging into some podcasts or books about it.

This last year has been wild, to say the least. I've always been grateful to be with ASA, but this last year really proved just how lucky I am to work for people who care. The health and safety of each employee has been the priority since the pandemic started, and the uncertainty of letting employees work from home, the interruptions of in-office tasks, and other road bumps never changed that priority. Luckily, ASA is staffed by incredible people who can and will do their job no matter what, and I would be surprised to hear many people say they noticed any change in ASA's service. I believe this should make ASA members proud, because in the end, how you treat people is number one.

This past year also brought a big, unexpected change to my work life. My longtime co-worker Emme Demmendaal took a new position with Montana State University, which meant my time was moved solely to ASA Publication. Previously my time was split with the DNA Department. I've always been a communicator and I never expected to become involved with something like ASA's DNA department, but I'm incredibly grateful that I ended up there. I had to learn science on the fly (a lot of things I would have paid more attention to in college if I would have known) and I am no doubt better at my current job because of it. I don't hold a candle to any of ASA's actual scientists, but I know more than I used to and for that, I'm proud. Emme is definitely missed at ASA, but I know she's excelling in her new position and I'm excited to see her continue pursuing her goals.

The last year was tough for a lot of people, but it proved that we need forward-thinking beef producers, like many of you, to feed our great nation. As a young person in the industry I'll have to admit that current times do make me nervous; if you spend too much time on the internet you'll become bogged down by people my age speaking out against our industry. But none of that changes the fact that beef is a highly nutritious, healthy source of protein, and in a time when an alarming number of people go to bed hungry, we need it. This issue of SimTalk is filled with great content, put together by a great team. I hope you're inspired and encouraged to be positive voices for our industry, and that the coming year brings great things your way!

SI

7P Ranch

28th Annual Spring Bull & Female Sale

Saturday, February 19, 2022

1:00 PM – Females Sell First Lunch at 12:00 noon

At the Ranch, Tyler, Texas Located one mile south of I-20 on FM 757 midway between Tyler and Longview

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40 Purebred Simmental and SimAngus™ Bulls

- 14 to 17 month-old Bulls
- All are polled
- Most are AI sired by breed leaders in both Simmental and Angus

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- 30 Bred Females with 5 Open Simmental heifers and 5 Open SimAngus heifers ready to breed
- All are polled
- Most are AI sired and bred to AI sires

40 Simbrah Heifers

- 35 Bred Heifers with 5 Open F1 Simbrah heifers ready to breed
- Most are ½ Simmental ½ Brahman heifers resulting from the mating of productive 7P Ranch Simmental cows to ONE elite Brahman AI sire - Mr Kallion 1352
- The Disposition is Excellent on these cattle
- Most are registered with the American Simmental Association and can be Golden Certified registered with the American Brahman Breeders Association





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ASA 3873367 || Homo Black, Homo Polled CCR POUNDER 2045F x GDAR LEUPOLD 298

CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
15	-0.2	94	154	25	18	19	67	0.61	0.59	164	97



ASA 3873147 | Homo Black, Homo Polled HOOK'S BEACON 56B x CCR COWBOY CUT 5048Z

CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
13	1.0	90	130	25	24	12	45	0.63	1.41	180	98



ASA 3873278 | Homo Black, Homo Polled HOOK'S ENCORE 65E x GIBBS 3009A ELEMENT

CE BW WW YW MILK STAY DOC CW MARB REA API TI 10 1.2 85 129 22 17 13 31 0.39 0.99 149 89



ASA 3873275 | Homo Black, Homo Polled WS PROCLAMATION E202 x BASIN PAYWEIGHT 1682

CE BW WW YW MILK STAY DOC CW MARB REA API 2,7 100 146 35 16 19 64 0.36 0.61 131 90



ASA 3873190 | Homo Black, Homo Polled WS PROCLAMATION E202 x BASIN PAYWEIGHT 1682

CE BW WW YW MILK STAY DOC CW MARB REA API TI 13 -0.4 80 119 36 18 21 44 0.43 0.56 146 85



ASA 3873031 | Homo Black, Homo Polled MGR TREASURE x CCR COWBOY CUT 5048Z

BW WW YW MILK STAY DOC CW MARB REA API TI
 CE
 BW
 WW
 YW
 MILK
 STAY
 DOC
 CW
 MARB
 REA
 API
 TI

 13
 0.2
 94
 151
 17
 14
 23
 41
 0.67
 0.55
 158
 98



ASA 3873226 | Homo Black, Homo Polled HOOK'S FRONTLINE 40F x CCR MS 2138 BOLDR 6028D

CE BW WW YW MILK STAY DOC CW MARB REA API TI 12 | 1.6 | 87 | 138 | 27 | 16 | 20 | 35 | 0.43 | 0.98 | 142 | 88



ASA 3872970 | Homo Black, Homo Polled HOOK'S BEACON 56B x CCR COWBOY CUT 5048Z

CE | BW | WW | YW | MILK | STAY | DOC | CW | MARB | REA | API | TI 17 | -3.9 | 67 | 96 | 23 | 23 | 11 | 23 | 0.85 | 0.87 | 183 | 91



CCR COMMANDER 5135F 13 sons sell.



IR CAPITALIST E041 16 sons sell.



TJ HEISMAN 388F 15 sons sell.



CCR POUNDER 2045F 13 sons sell.

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ASA 3873512 || Homo Black, Homo Polled CCR BIG TIMBER 6540F x CCR COWBOY CUT 5048Z

CE BW WW YW MILK STAY DOC CW MARB REA API TI 12 0.6 96 135 29 19 13 33 0.14 0.81 143 89



ASA 3873499 || Homo Black, Homo Polled CCR 4069 PAY DIRT 3372F x CCR SPARTAN 9124A

CE BW WW YW MILK STAY DOC CW MARB REA API TI 12 1.2 88 134 24 15 14 32 0.24 0.66 129 82



ASA 3873447 || Homo Black, Homo Polled IR CAPITALIST E041 x V A R RESERVE 1111

CE BW WW YW MILK STAY DOC CW MARB REA API TI 13 -2.6 76 128 28 17 5 35 0.75 0.43 165 93



ASA 3873388 || Homo Black, Polled TJ HEISMAN 388F x GIBBS 3009A ELEMENT

 CE
 BW
 WW
 YW
 MILK
 STAY
 DOC
 CW
 MARB
 REA
 API
 TI

 12
 -1.0
 82
 124
 29
 21
 13
 40
 0.59
 0.89
 162
 91



ASA 3873079 || Homo Black, Homo Polled CCR POUNDER 2045F x CCR CATALYST 7035W

CE BW WW YW MILK STAY DOC CW MARB REA API TI 19 -2.0 79 128 30 24 11 47 0.89 0.61 195 98



ASA 3873307 || Homo Black, Homo Polled WS PROCLAMATION E202 x GIBBS 3009A ELEMENT

CE BW WW YW MILK STAY DOC CW MARB REA API TI 11 -0.7 79 115 32 18 19 25 0.43 0.81 153 89

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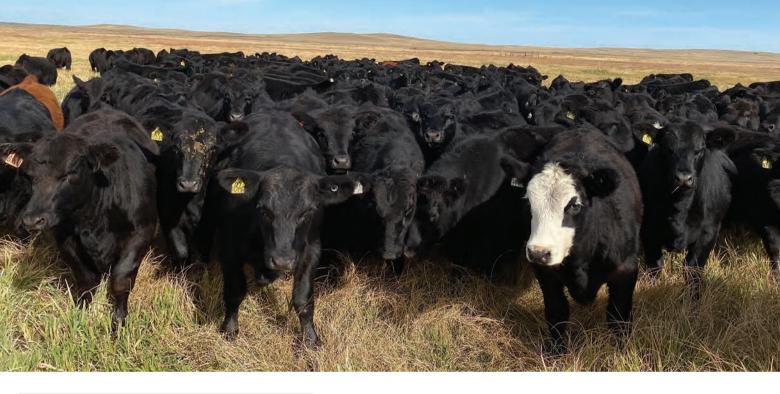
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Powerline Genetics: Progress Through Collaboration

by Lilly Platts



Powerline Genetics, Arapahoe,

Nebraska, uses a unique, innovative model for developing and marketing SimAngus seedstock. By partnering with a select group of breeders — "genetic multipliers" — they are able to offer only top-tier bulls for sale. The business was originally started by JD Anderson, and four years ago, Jeff Stagemeyer joined as an owner and partner. Bobbi Hartwig holds a number of responsibilities, including serving as sales and marketing manager, being involved with the daily management of the bulls, and fronting communication efforts. Powerline Genetics markets around 500 bulls annually. has developed regional markets, and has a strong customer base of commercial producers. Above all, they believe that all genetic decisions begin with the end product in mind, and their larger goal is to make sure that calves sired by Powerline bulls bring premiums from weaning to the rail.

Powerline Genetics has a long history in the beef industry, and has built a unique business model to market only the best SimAngus genetics.



Beginning With the End In Mind

Both Anderson and Stagemeyer bring extensive experience in feeding cattle to Powerline Genetics. Anderson is the fifth generation in his family to feed cattle; Stagemeyer is involved with his in-law's NA Timmerman Inc. Cattle Feeding, which runs yards in Nebraska, Kansas, and Colorado, with an overall capacity of over 80,000 head. When Anderson started the business, his first priority was to make decisions that would ultimately increase the



profitability of finished cattle, and yield the best possible carcass.

Powerline Genetics strives to market bulls that will sire vigorous, live calves that will have the kind of consistent growth and performance to maximize weaning weights while also being able to mature and succeed in the feedlot. In the end, they also want to see superior carcass traits that bring a premium at harvest.

Stagemeyer explains, "For us, it's having a nice size calf at birth with enough vigor and heterosis to get them to the end. We want them to have enough maturity left in them so they can make it all the way to a fat steer."

With a focus on commercial customers, Anderson says there are two priorities. "The first thing is convenience traits. Second, they want performance. The producers who don't retain ownership want weaning weight, and the producers who do retain ownership understand that the end product needs to be a 1,500-plus-pound steer or a 1,400-pound heifer, minimum," he explains.

Hartwig explains that instead of displaying a traditional EPD set in their catalogs, they have grouped specific EPD traits, intended to help customers choose bulls that will fit their individual goals. Additionally, any trait that is in the top 35% of the breed is highlighted. Calving Ease, Birth Weight, and Weaning Weight identify "rancher convenience bulls"; Milk, Stayability, and \$API identify "cow maker bulls"; Yearling Weight, Intramuscular Fat, Ribeye Area, and \$TI identify "power grid bulls"; and Birth Weight, Weaning Weight, Yearling Weight, Marbling, and Ribeye Area are grouped together as "performance data."

Beyond numbers, Powerline Genetics prioritizes the practical traits that are necessary for their bulls to succeed in a commercial setting. Stagemeyer says, "Because we have bulls that go to rough country, they have to be sound and functional."

Quality development and management is key to making sure bulls are not only genetically superior, but also physically capable of doing their job. Hartwig explains that bulls are sourced from herds with strong health programs, are screened post-weaning and prior to arrival, and are continually evaluated to ensure only the best bulls are sold. These bulls are sorted based on a number of criteria, from age to the market they will be developed for. Every bull, including those sold in January, have to pass a semen check prior to sale day. While performance is a priority, Hartwig also emphasizes that cattle have to be phenotypically correct and attractive.

Docility is an additional priority. Hartwig says, "Disposition is a big sorting factor, because no one wants a problem. Any bull with a bad disposition is gone."

Simmental has been a part of the genetic program for many years, and has been especially important in helping Powerline meet their goal of producing cattle with vigor and growth. Stagemeyer says, "SimAngus bring to the table the best traits of crossbreeding, while keeping cattle in a similar type with a black hide. It's user friendly but has some punch — muscle, growth, and longevity."

Anderson says that from his standpoint as a seedstock producer, he sees a premium on the calves he feeds out, and that Simmental has also added fertility to his cow herd. "The calves we fed last year brought back a premium," he says. "Fertility is important for us because we have a 45-day calving window. One thing I really like about Simmental is the fertility." Anderson adds.



A balance of data and soundness is behind each Powerline bull.



Powerline Genetics also has the advantage of helping their customers retain ownership on calves. With access to feeding and extensive knowledge of the business, they offer assistance to bull customers who are interested in diving into the business of holding on to their calves after weaning. Stagemeyer explains, "We can share with our customers the opportunity to see what's under the hide. We can show that these cattle have premium carcass traits. Retained ownership allows producers to try and achieve even more for their hard work and genetic investment."

CONTINUED ON PAGE 12

Powerline Genetics: Progress Through Collaboration

CONTINUED FROM PAGE 11

A Team Effort

From genetic multipliers to the employees, collaboration is at the heart of the Powerline business. Hartwig came to the operation in 2018, bringing with her a passion for the beef industry. Today, Hartwig is responsible for a variety of tasks, ranging from building catalogs and taking videos to processing bulls through the chute. While this is a lot of responsibility, Hartwig explains that being involved in each of these pieces allows her to know the bulls and do a good job of managing and marketing them.

Stagemeyer explains that Hartwig plays a key role in the success of the business. "Bobbi does everything. She sorts, processes, freeze brands, takes photos, and videos all of the bulls. By the time they've gone through her process, if there has been a problem, they are already gone. She knows all 500 bulls, and I think that part of the development process is key. You have to surround yourself with the right people. You need people who are big-picture thinkers and creative, and Bobbi is a home-run hitter."



The Powerline Genetics team.



The Anderson family.





The entire team is driven by a love for the beef industry. Stagemeyer is passionate about improving the beef industry, and enjoys studying the factors that make cattle successful, especially through carcass data. "I enjoy studying data. I like to understand where a calf originated, what it's genetic makeup is, how it was fed, and why that animal brought a premium," Stagemeyer says. "Through this analysis we know our Powerline Genetic-sired calves are making the business better."

Hartwigs says that her love for the industry run deep, and from growing up showing cattle to her current position, she is passionate about raising cattle. In her free time, Hartwig spends time helping her boyfriend on his ranch in the Sandhills, and she recently purchased her own donor cow with the intention of building her own cow herd. "It's all I've ever known, and I can't imagine myself doing anything else," she says.

Anderson says that he also can't imagine himself anywhere but in the cattle business. "That's all I know. I grew up in it, and have spent all my life in it. I really like the people we've been involved with, and it's been very rewarding. I'm thankful I've been blessed to do what I do."

CONTINUED ON PAGE 14

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Powerline Genetics: Progress Through Collaboration

CONTINUED FROM PAGE 12

Powerline Genetics partners with five main SimAngus breeders:

- Grazers, Inc., owned by JD and Linda Anderson, and managed by Clint and Stacey Robinson. The top group of bulls from this program are put into the Powerline Genetics program, and the rest of the cattle are fed at the family feedlot.
- Joe and Hannah Wendell raise SimAngus seedstock near Bertrand, Nebraska. They have been a part of the program since the late 1990s. The bulls sourced for the Powerline program are developed for the January sale, and are set apart by their vigor and quick growth.
- The Meyring family calls northwest Nebraska home. They run a registered SimAngus cow herd, which are bred entirely by AI. Additionally, the family runs a commercial feedlot and a row crop operation.
- **Heath and Courtney Wills** have been a part of the Powerline program for a decade. They run a SimAngus cow herd, utilizing AI and embryo technology. Additionally, they operate a commercial feed yard and raise hay and other crops.
- Art and Marsha Lienemann have been sending bulls into the Powerline program for close to twenty years. Through AI and embryo technology they are focused on improving the genetics of their herd each year.



The breeders who partner with Powerline Genetics are driven by genetic improvement.







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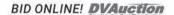
LCDR Impact x CDI Verdict Hetero Black - Homo Polled - Yearling Full brothers sell!



LCDR Impact x TNT Dual Focus Homo Black - Homo Polled - Yearling







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Polled Red & Black Simmental Cattle

Genetic Evaluation: A Team Sport by Jackie Atkins, in collaboration with Randie Culbertson and Wade Shafer

Cattle Fax

n a nearly daily basis I witness the tug and pull in our family dynamics between individuals competing directly and the group working collaboratively. Nearly every time my kids are competing with each other to put their pjs on first, pack their lunch first, or run to the gate first, they are pushing and shoving, and only care about themselves at the expense of others. When we flip this conversation into a team sport by asking, "How fast can we all be ready for bed?", this instantly changes the dynamics. Instead of elbowing each other out of the way, when our family is the team, the older kids help the younger ones get toothpaste on their toothbrushes, find clean pjs, comb hair, and work together toward a common good in a spirit of camaraderie. Not only is there less fighting in the family when we have a team goal, but everyone finishes faster as we aren't wasting time fighting over silly things like who touched the toothpaste first.

I see this play out in breed association politics as well. If a breed association's mentality is to make their association number one, they will start elbowing, pushing, and shoving to "win". When the common good is to provide tools for the commercial cattle industry, this completely changes the dynamics. Now the breed associations can collaborate and work together toward helping the commercial cattle industry have the most accurate tools at their disposal.

I feel so fortunate to work with a collective of teamoriented breed associations through International Genetic Solutions (IGS). It is invigorating to join forces with the staff of the various breed associations and problem-solve together. This summer we worked on a project that highlighted these benefits. We had one-on-one meetings with each association in IGS and went through the individual data entering into the genetic evaluation. It was a great opportunity to see how each association is adding to the IGS evaluation and also how each association is benefiting from the IGS collective.

We looked through a wide swath of data points to review contributions made by each breed organization. The American Simmental Association (ASA) has ~150,000 genotyped animals and an above-average number of females and terminal cattle genotyped. In females born after 2010 with a Stayability record (n = 126,003), the members of the ASA have genotyped over 27% of those cows compared to the IGS average of 16%. Similarly, if we look at the number of terminal calves born since 2010, the ASA contributed 30,744 carcass records, of which 34% were genotyped. This is well above the IGS average of 10% of the terminal cattle being genotyped. Clearly the membership commitment to Cow Herd DNA Roundup and the Carcass Expansion Project show up in the numbers of genotypes in these populations. This is paving the way for research and development to improve what we can do for future predictions of maternal and terminal traits.

An area where we saw a drop in ASA data compared to the average IGS percentage was in yearling weights submitted. The ASA has just under 23% of the animals in our database with at least one phenotype who have a yearling weight, compared to an average of 28% for IGS. The Calf Crop Genomics program has an incentive for completed growth trait record submission, so it will be interesting to see if this benchmark improves in the future for ASA.

This report also highlighted the benefit to ASA of being in IGS. As of June 2021, the ASA had 12,979 bulls in the

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Genetic Evaluation: A Team Sport

CONTINUED FROM PAGE 16

ASA database that also have progeny in another breed registry in the IGS collective. If the ASA were in a genetic evaluation all by ourselves, we would have close to 2.3 million progeny from these $\sim\!13,000$ bulls, which is a healthy amount of data. But, by having one joint genetic evaluation, we add over 2 million more progeny to these 13,000 bulls, bringing the total to just over 4.3 million progeny records. This of course adds quite a bit of data to the 13,000 bulls, but also $\it all$ of their relatives benefit from the additional progeny records.

We pulled similar numbers for each organization in IGS and saw the same pattern across all the breed associations using the IGS genetic evaluation. Some breed associations saw an increase of nearly 14 times the amount of data through the collaborative efforts of IGS than if they had their own separate evaluation.

Seeing the fruits of this effort reminds me of a line from James Clear's book *Atomic Habits*, which I recently discovered: "You do not rise to the level of your goals. You fall to the level of your systems. Your goal is your desired outcome. Your system is the collection of daily habits that will get you there."

I think a tremendous benefit the ASA and many organizations in IGS offer their members is to have systems that allow breeders to help meet their data collection goals. Without those systems some breeders would meet them anyway, but certainly far fewer than can today. Again, we are working as a team to create the best level of genetic

awareness. If we want the commercial cattle industry to have the best tools to predict genetic merit, then we work as a team with appropriate systems to meet the data goals.

"This year, spend less time focusing on outcomes and more time focusing on the habits that precede the results." — James Clear, *Atomic Habits*

- ASA has ~150,000 genotyped animals.
- In females born after 2010 with a Stayability record (n = 126,003), the members of the ASA have genotyped over 27% of those cows; the IGS average is 16%.
- In terminal calves born since 2010, the ASA contributed 30,744 carcass records, of which 34% were genotyped; overall, 10% of terminal calves are genotyped in IGS.
- ASA has just under 23% of the animals in our database with at least one phenotype who have a yearling weight, compared to an average of 28% for IGS.
- As of June 2021, the ASA had 12,979 bulls in the ASA database that also have progeny in another breed registry in the IGS collective.
 - If the ASA were in a genetic valuation all by ourselves, we would have close to 2.3 million progeny from these ~13,000 bulls, which is a healthy amount of data. But, by having one joint genetic evaluation, we add over 2 million more progeny to these 13,000 bulls, bringing the total to just over 4.3 million progeny records.



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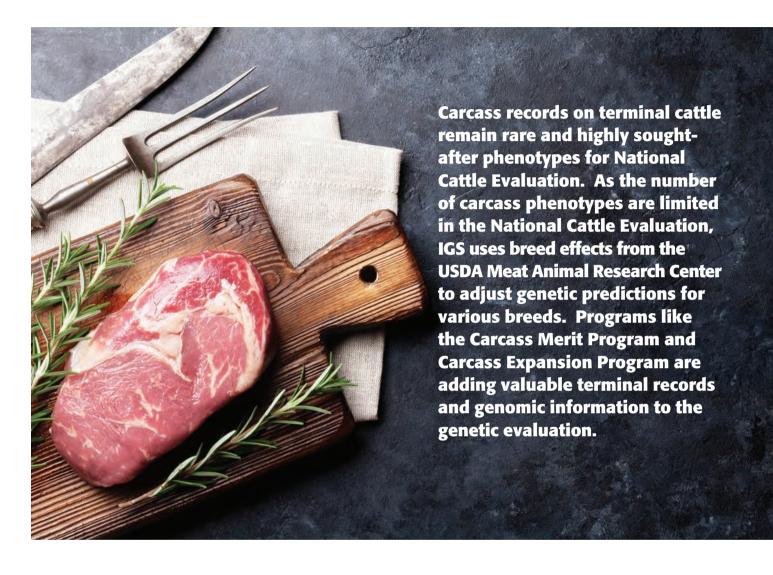


American Simmental Association

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IGS Carcass EPD Updates

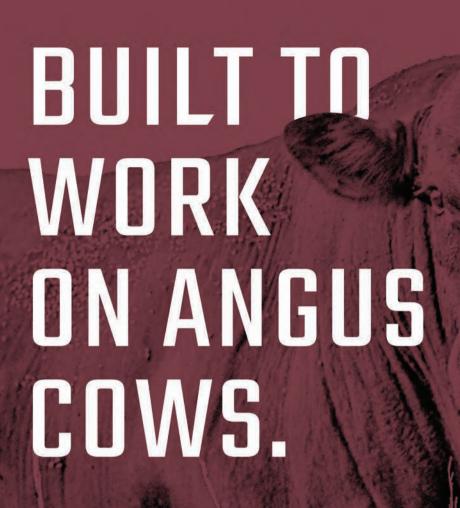
by Randie Culbertson, PhD



As with any trait under selection, breed effects will change over time. As a result, US-MARC updates their breed effects annually and the IGS Multi-breed Genetic Evaluation recently updated the breed effects in the published EPDs (as of 12/20/21). The implementation of these updated breed effects caused some changes in carcass EPDs. The adjustments are set to an Angus base and are applied depending on the breed percent of the animal. When comparing the rank of bulls with a high percent of a breed, breeders may see a shift in the EPD value but the bulls still have the same rank among other bulls with the same breed percentage. However, reranking occured when comparing one breed to another as well as different percentage composites.

An ongoing challenge of estimating carcass EPDs is the lack of carcass phenotypes. This lack of phenotypes creates a real challenge for the genetic evaluation to appropriately account for breed differences. With traits that have limited records and breed comparisons within contemporary groups, using field data (i.e. IGS data) can lead to unreliable estimation of breed effects. In those cases, breed effects from scientific literature are often used. The advantage of using breed effects from literature is that the effects are derived from "clean" data and often from herds with breeding systems designed specifically to obtain these breed effects. In the case of carcass trait breed differences, the IGS Multi-breed Genetic Evaluation uses the breed effects derived from US-MARC

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Data-Driven Decisions

by Justin Sexten, vice president of Strategy, Performance Livestock Analytics Originally published in Cattlemen's News

Evaluating Bull Productivity

Few commercial producers consider the process of culling bulls based on productivity. The reason is, most bulls ultimately cull themselves due to injury or old age. With the investment needed to purchase new herdsires. few producers look to cull bulls based on calf performance so long as they continue successfully servicing cows.

This approach varies by segment, as seedstock producers tend to turn genetics faster, with few waiting for bulls to cull themselves. Genetic testing has clearly accelerated the genetic advancement process. The ability to evaluate potential at birth ultimately reduces the number of bulls developed to "see how they turn out."

The value of genetic testing is based on the opportunity to manage the individual animal, a key principle to precision animal management. A goal of precision livestock farming (PLF) is to find ways to manage the individual in a group setting. Most PLF discussion of genetic improvement has focused on the tested generation. Few experiments have considered applying the results to the previous generation.

A recent article in Agriculture by Dr. Gary Bennett and co-workers at the USDA Meat Animal Research Center evaluated the ability of genetic testing results to inform management decisions around bull prolificacy. Genetic testing encompasses a wide range of results, but in this case the key metric was parentage.

Since multiple bull pastures are commonplace for cow-calf operations, this project sought to understand how implementing a genetic test can provide insights into the variation in calves sired by each bull within the pasture (or sire prolificacy). For most, this data would be a by-product of the goal of knowing the calf's genetic potential.

Previous data have shown that while multi-bull pastures offer management advantages, the distribution of sires the following year is not uniform. The team expanded their scope to look at the repeatability and the impact of key physical factors such as bull age and scrotal circumference on prolificacy.

As you begin pregnancy-checking cows, knowing historic sire prolificacy would provide insights as to why cows may be open, or calving seasons string out due to unplanned excessive cow-to-bull ratios. The research team calculated their open-cow-to-bull ratio at 23.6. Calculated, as cows were exposed to AI previously and AI conception rates were used to determine remaining open cows exposed.

Dr. Bennett and team evaluated a wide range of practical multi-bull pasture models, with bull turnout ranging from three to 11 bulls per pasture, and with a cow age range from three to eight years. There were 141 unique breeding opportunities with 38 of the bulls used in just one season, 41 bulls averaged 2.5 breeding seasons, and four bulls were used all four years of the experiment.



The distribution of calves per breeding opportunity is where the data gets interesting. For 21 of the breeding opportunities (one bull for a season) seven calves or fewer were sired, and three of those resulted in no calves. On the other end of the curve, seven breeding opportunities resulted in 43 calves or more, with one of these siring 57 calves.

If we extrapolate the data for illustration, imagine that the most (57) and least (0) prolific bulls are in the same pasture: on the average we assume they sire about 28 calves each. A herdsire with exceptional genetic and physical traits siring zero calves is of little value if those traits are not transferred. This is a clear example where using an average assumption would provide a marginal conclusion on a sire's productivity.

Scrotal circumference and breeding age (greater than two years) contributed to less than 5% of the prolificacy prediction and didn't influence repeatability. As one might expect, prolificacy increased as bull age advanced. The authors suggested that once a bull passes a breeding soundness exam, the usefulness of individual bull measurements to indicate prolificacy is marginal at best.

Repeatability of prolificacy was high, suggesting that from one year to the next, prolific sires should remain prolific. What the team was unable to evaluate was the impact of implementing selection pressure for prolificacy. Dr. Bennett's team did suggest implementing management changes to reduce the number of bulls used in cases where prolificacy was high and will remain limited by the risk of bull injury or death.

Perhaps we cannot reduce the number of bulls turned out, but consider the risk we take turning unknown or marginally prolific sires out in multi-bull pastures, as few operations have variable cow-to-bull ratios based on bull prolificacy.

The understanding and implementation of bull prolificacy will continue to develop. For those using genetic testing to manage the current calf crop, these data highlight an opportunity to look back at how productive each bull in the battery has been.

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Long-time customer Glenn Cantrell (L) with Dan Leo



Leon Beckmann

Leon Beckmann, NE Repeat Customer

calves can go out November 10th with those weights, those are pretty good genetics."

Glenn Cantrell, OK Repeat Customer "I buy all of my SimAngus bulls and females from APEX and Angus bulls from Express Ranch, knowing from each I will get the best of genetics and quality available. SimAngus add extra muscle, performance and carcass traits we need. I recently sold our 2021 calves sired by your APEX SimAngus bulls, steers averaged 873 lbs. and heifers 823 lbs. If January/February born

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Hooks Beacon x WS Proclamation
Top 1% MARB, STAY, \$API (191.5) and \$TI (99.9),
top 3% CE & BW! A 'big time' future!



WS Proclamation x 9K Gold Key
Top 1% MILK and bred to great Leachman Profit Driver!
Stems from perfect uddered, productive cow family!

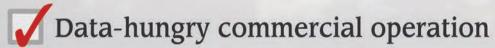
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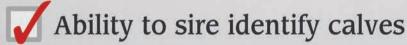


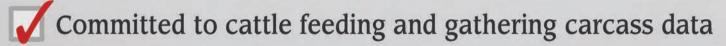
To Request a Catalog: Dan Leo 308-750-0200 or sales@apexcattle.com
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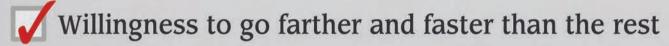


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Leading technology and bred for the long haul

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Decades of research and satisfied customers

JESUP III





W/C Fort Knox 609F

By W/C Bankroll 811D

EPD: CE: 12 \$API: 150 \$TI: 91



W/C Pinnacle E80

By W/C Loaded Up 1119Y

EPD: CE: 13 \$API: 123 \$TI: 71



W/C Night Watch 84E
By CCR Anchor 9071B
EPD: CE: 18 \$API: 154 \$TI: 87



DMCC Black Velvet 5E
By Pays To Believe
EPD: CE: 5 \$API: 105 \$TI: 74



By Remington Secret Weapon 185 EPD: CE: 18 \$API: 134 \$TI: 74



THSF Lover Boy B33
By HTP/SVF Duracell T52
EPD: CE: 15 \$API: 157 \$TI: 92



JC King of the Road 468H By KBHR High Road E283 EPD: CE: 17 \$API: 178 \$TI: 98



Ruby NFF Up The Ante 9171G
By Ruby's Currency 7134E
EPD: CE: 11 \$API: 120 \$TI: 70



ACLL Fortune 393D

By MR TR Hammer 308A ET

EPD: CE: 9 \$API: 97 \$TI: 71



W/C Double Down 5014E
By W/C Executive Order 8543B
EPD: CE: 16 \$API: 113 \$TI: 72



Ruby SWC Battle Cry 431B By MR HOC Broker EPD: CE: 11 \$API: 98 \$TI: 75



Mr SR 71 Right Now E1538
By Hook's Bozeman 8B
EPD: CE: 17 \$API: 152 \$TI: 90



GSC GCCO Dew North 102C By HTP/SVF Duracell T52 EPD: CE: 15 \$API: 114 \$TI: 81



PAL/CLAC Meant To Be 823E By Mr HOC Broker EPD: CE: 13 \$API: 110 \$TI: 70



Reckoning 711F

By W/C Relentless 32C

EPD: CE: 10 \$API: 118 \$TI: 68



TJSC King of Diamonds 165E
By LLSF Pays To Believe ZU194
EPD: CE: 11 \$API: 112 \$TI: 75



PBF Red Paint F88

By W/C Executive Order 8543B

EPD: CE: 14 \$API: 117 \$TI: 75



SC Pay the Price C11
By CNS Pays to Dream T759
EPD: CE: 8 \$API: 114 \$TI: 77



JASS On The Mark 69D

By W/C Loaded Up 1119Y

EPD: CE: 11 \$API: 121 \$TI: 74



W/C Relentless 32C
By Yardley Utah Y361
EPD: CE: 9 \$API: 117 \$TI: 75



WLE Copacetic E02
By HPF Quantum Leap Z952
EPD: CE: 14 \$API: 113 \$TI: 77



Holtkamp Clac Change Is Coming 7H By WLE Copacetic E02 EPD: CE: 13 \$API: 106 \$TI: 75



W/C Cyclone 385H
By W/C Bankroll 811D
EPD: CE: 13 \$API: 134 \$TI: 82



LLSF Vantage Point F398
By CCR Anchor 9071B
EPD: CE: 14 \$API: 132 \$TI: 85



WS Revival B26
By LLSF Uprising Z925
EPD: CE: 11 \$API: 100 \$TI: 67



LLSF Pays To Believe ZU194
By CNS Pays To Dream T759
EPD: CE: 9 \$API: 120 \$TI: 80



W/C Bankroll 811D

By W/C Loaded Up 1119Y

EPD: CE: 13 \$API: 127 \$TI: 80



CLRS Guardian 317G
By Hook's Beacon 56B
EPD: CE: 18 \$API: 211 \$TI: 115



KSU Bald Eagle 53G
By Hook's Eagle 6E
EPD: CE: 14 \$API: 178 \$TI: 104



WLE Black Mamba G203
By WLE Copacetic E02
EPD: CE: 13 \$API: 136 \$TI: 82



FELT Perseverance 302F By W/C Executive Order 8543B EPD: CE: 14 \$API: 111 \$TI: 72



W/C Express Lane 29G
By Rubys Turnpike 771E
EPD: CE: 14 \$API: 136 \$TI: 83



MR CCF The Duke G42

By Mr CCF Vision

EPD: CE: 11 \$API: 116 \$TI: 72



Erixon Bitten 203ABy NCB Cobra 47Y

EPD: CE: 15 \$API: 150 \$TI: 87



LCDR Favor 149F
By LCDR Witness 541C
EPD: CE: 11 \$API: 150 \$TI: 100



SFG The Judge D633
By CCR Cowboy Cut 5048Z
EPD: CE: 10 \$API: 159 \$TI: 97



TL Ledger 106DBy Profit

EPD: CE: 10 \$API: 112 \$TI: 69



GPG Focus 135FBy Mr CCF 20-20
EPD: CE: 6 \$API: 115 \$TI: 77



OBCC Kavanaugh F236
By OBCC Unfinished Business
EPD: CE: 14 \$API: 144 \$TI: 81



WS Proclamation E202
By CCR Cowboy Cut 5048Z
EPD: CE: 14 \$API: 166 \$TI: 104



JBSF Logic 5E
By W/C Relentless 32C
EPD: CE: 8 \$API: 116 \$TI: 74



WHF/JS/CCS Double Up G365
By W/C Double Down
EPD: CE: 15 \$API: 116 \$TI: 71



By TJ Teardrop EPD: CE: 16 \$API: 172 \$TI: 92



W/C Style 69EBy Style 9303
EPD: CE: 17 \$API: 134 \$TI: 67



RRF Trading Up E777
By Pays to Believe
EPD: CE: 14 \$API: 133 \$TI: 77



JSUL Something About Mary 8421
By W/C Relentless 32C
EPD: CE: 12 \$API: 116 \$TI: 74



CDI Innovator 325D

By TJ Main Event 503B

EPD: CE: 12 \$API: 134 \$TI: 92



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Thursday,

March 3, 2022

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

SELLING 200 HEAD

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



J188 - Reg# 3943900 Purebred - Homo Black/Polled TJ HEISMAN 388F x WS MISS SUGAR C4 CE 13 BW -0.9 WW 83 YW 130 MCE 8 M 34 MWW 76 API 168 TI 97



J117 - Reg# 3943829 Purebred - Homo Polled MR SR RED OCTOBER G1761 x WS ELECTRA E88 CE 18 BW -3.6 WW 72 YW 114 MCE 10 M 28 MWW 64 API 191 TI 96



J224 - Reg# 3943936 Purebred - Homo Black/Polled TJ HEISMAN 388F x KBHR F026 CE 13 BW -0.2 WW 87 YW 129 MCE 8 M 33 MWW 77 API 161 TI 93



J164 - Reg# 3943876 Purebred - Homo Black/Polled LCDR IMPACT 134F x KBHR E197 CE 11 BW 1.1 WW 101 YW 156 MCE 8 M 29 MWW 80 API 166 TI 105



J113 - Reg# 3943825 Purebred - Homo Black/Polled LCDR IMPACT 134F x KBHR E197 CE 11 BW 0.8 WW 98 YW 153 MCE 8 M 29 MWW 78 API 166 TI 104



J083 - Reg# 3943795
Purebred - Homo Polled
MR SR RED OCTOBER G1761 x KBHR RED VELVET F055
CE 17 BW -1.1 WW 86 YW 132 MCE 10
M 25 MWW 68 API 180 TI 101



J142 - Reg# 3943854 3/4 SM - Homo Black/Polled TJ GOLD 274G x KBHR D008 CE 16 BW -2.1 WW 79 YW 127 MCE 8 M 31 MWW 70 API 163 TI 93



J153 - Reg# 3943865 3/4 SM - Homo Black/Polled TJ FLAT IRON 259G x KBHR E197 CE 14 BW -1.7 WW 79 YW 123 MCE 10 M 33 MWW 72 **API 175 TI 96**



J226 - Reg# 3943938 3/4 SM - Homo Polled KBHR ALL AMERICAN G104 x KBHR C125 CE 11 BW 1.3 WW 95 YW 145 MCE 6 M 35 MWW 82 API 133 TI 88

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EPDs as of 12/13/21

DVAuction







MCE 10 M 33 MWW 81 **API 195** TI 113

J071 - Reg# 3943783 1/2 SM - Homo Black G A R HOME TOWN x KBHR MEDORA G132 CE 20 BW -2.2 WW 87 YW 144 MCE 14 M 25 MWW 69 API 195 TI 110

J105 - Reg# 3943817 Purebred - Homo Black/Polled HOOK'S BEACON 56B x WS MISS SUGAR C4 CE 16 BW -2.0 WW 88 YW 136 MCE 11 M 32 MWW 76 API 187 TI 105





J130 - Reg# 3943842 Purebred - Homo Polled MR SR RED OCTOBER G1761 x WS ELECTRA E88 WS PROCLAMATION E202 x BAR CK MS X38 106Z CE 18 BW -2.9 WW 80 YW 125 MCE 10 M 28 MWW 68 API 192 TI 100



J138 - Reg# 3943850 Purebred - Homo Black/Polled CE 17 BW -2.2 WW 79 YW 119 MCE 12 M 31 MWW 71 API 184 TI 100



J160 - Reg # 3943872 Purebred - Homo Black/Polled HHS MR 847D x WS MISS SUGAR C4 CE 11 BW 0.5 WW 90 YW 144 MCE 7 M 29 MWW 74 API 173 TI 101



J255 - Reg# 3943967 Purebred - Homo Polled MR SR RED OCTOBER G1761 x KBHR C078 CE 13 BW 0.7 WW 87 YW 138 MCE 7 M 29 MWW 73 API 170 TI 98



J177 - Reg# 3943889 Purebred - Homo Black/Polled LCDR IMPACT 134F x KBHR MEDORA G132 CE 11 BW 1.6 WW 102 YW 166 MCE 7 M 30 MWW 81 API 165 TI 105



J203 - Reg# 3943915 Purebred - Homo Black/Polled LBRS GENESIS G69 x KBHR MEDORA G132 CE 14 BW -0.1 WW 94 YW 148 MCE 9 M 29 MWW 77 API 182 TI 105



ASA# 3709132 BRIDLE BIT ECLIPSE E744 x TJ DIPLOMAT 294D HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN Due 3/12/22 to CLRS Hillview 337H



ASA# 3709147
REDHILL 672X X004 231A x MCM TOP GRADE 018X
HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN
Will calve by sale day to Hook's Beacon 56B



ASA# 3709088

TJ HEISMAN 388F x GW-WBF SUBSTANCE 820Y
HOMO BLACK HOMO POLLED PB SM
Due 3/7/22 to EGL Firesteel 103F



ASA# 3874310
KRJ HZN DIRECT IMPACT F805 x IR IMPERIAL D948
RED HOMO POLLED PB SM



ASA# 3874270 HOOK`S EAGLE 6E x TJ DIPLOMAT 294D HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN



ASA# 3918033
HOOK`S FULL FIGURES 11F x BRANT BIG TIME Z103S
RED HOMO POLLED PB SM



ASA# 3874209

KBHR CIMARRON F151 x MCM TOP GRADE 018X
HOMO BLACK HOMO POLLED PB SM



ASA# 3874349
G A R HOME TOWN x HOOKS SHEAR FORCE 38K
HOMO BLACK HOMO POLLED 1/2 SM 1/2 AN



ASA# 3874243
REDHILL 672X X004 231A x HOOKS SHEAR FORCE 38K
HOMO BLACK HOMO POLLED 3/4 SM 1/4 AN



ASA# 3874387 CLRS GUARDIAN 317G x HOOK'S BLACK HAWK 50B HOMO BLACK HOMO POLLED PB SM Sells Open



ASA# 3399281

CLRS DIVIDEND 405D x MCM TOP GRADE 018X

HOMO BLACK HOMO POLLED PB SM

Due 3/11/22 to Gibbs 8035F Xcite



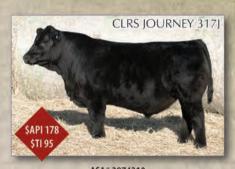
ASA# 3874496
REDHILL 672X X004 231A x EAGLE PASS CONVERSION
HOMO BLACK HOMO POLLED 1/2 SM 1/2 AN
Sells Open

BRED FOR BALANCE

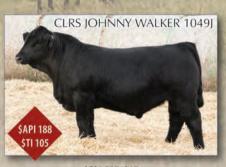
THE FUTURE IS Same great name and

cattle. Simply a new brand for the future.

HERE



ASA# 3874210 REDHILL 672X X004 231A x MCM TOP GRADE 018X HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN



ASA# 3874317 CLRS GUARDIAN 317G x HOOKS TITUS 31T HOMO BLACK HOMO POLLED PB SM



ASA# 3874261 CLRS GUARDIAN 317G x LRS TENX EXCELLANCE 352C HETERO BLACK HOMO POLLED PB SM



ASA# 3875164 HOOK'S GALILEO 210G x BASIN PAYWEIGHT 1682 HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN



ASA# 3874237 WS PROCLAMATION E202 x GW-WBF SUBSTANCE 820Y HOMO BLACK HOMO POLLED PB SM



ASA# 3874215 EGL FIRESTEEL 103F x MCM TOP GRADE 018X HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

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TECS





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CDI 255J Homo Polled Homo Black PB SM CDI 327J Homo Polled Hetero Black PB SM Hook's Glacier 37G x CDI Ms Right On 11Y



CDI Trustee 387F x LCDR Ms Cassidy 516C



CDI 277J Homo Polled Homo Black PB SM LCDR Impact 134F x CDI Ms 701T 13Z



CDI 257J Homo Polled Blk Pending PB SM LCDR Impact 134F x CDI Miss Fortified 72C







CDI 259J Homo Polled Homo Black PB SM LCDR Impact 134F x CDI Ms 701T 13Z



CDI 320J Homo Polled Blk Pending PB SM



CDI 270J Homo Polled Homo Black PB SM LCDR Identity 163G x CDI Ms Main Event 161F Hook's Glacier 37G x CDI Miss TaylorMade 75C



COZY CDIAMOND SIMMENTAL RANCH

FEBRUARY 2ND, 2022 - 1PM CST

Selling:

@ THE RANCH - KINTYRE, ND

- * 85 yearling & 18 month old Red & Black Simmental/SimAngus™ Bulls
- *SELECT female & embryo lots

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

ALL BLACK BULLS ARE VERIFIED HOMO OR HETERO BLACK



LCDR 505H API 173 TI 100 Hama Palled/Hama Black - 3/4 SM EGL Firesteel x C4 son that's a full sib to last year's high sellers!



LCDR 215J API 158 TI 99 Hamo Polled/Hamo Black - PB SM Lead off LCDR Favor son that showcases one of our best flushes in 2021!



LCDR 212J API 161 TI 94 Homo Polled/Black Pending - 3/4 SM Combines two of our favorite donors, X200 & 8362l Sired by 8678.



LCDR 210J API 175 TI 101 Hama Palled/Hama Black - PB SM



LCDR 202J API 167 TI 95 Hama Palled/Black Pending - PB SM

A "new" but proven and exclusive sire group by "8678 (294/225)" will be sale features, multiple baldies with super number profiles and the phenotype to impress.



LCOR 276J API 164 TI 100 Homo Polled/Black Pending - PB SM Moderate yet massive best describes this flush of C4 sons, sired by W/C Fort Knox!



LCOR 240J API 166 TI 93 Hama Polled/Red - PB SM W/C Fort Knox sired red that pushes the envelope for flash and creates conversation!



LCDR 227J API 156 TI 87 Homo Polled/Black Pending - PB SM Ultre-complete W/C Fort Knox x 38W son that will lead off the flush!





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LCDR 350J - API 153 TI 89 Homo Polled/Red 5/8 SM Unique set of LCDR Fanatic flush brothers by the powerful X200 donor!



LCDR 362J API 143 TI 86 Homo Polled/Red Blaze - 3/4 SM Unique pedigree on this fancy red blaze Motley son!



LCDR 356J API 140 TI 96 Homo Polled/Black Pending - 3/4 SM Large LCDR Impact sire group will once again be sale



LCDR Ms Jazzy 384J API 147 TI 93
Homo Polled/Black Pending - 3/4 SM
Pawerful yet feminine!!!
The X200 x LCDR Favor mating is one of our
favorites.
Pick of the X200 daughters will sell!



LCDR Ms Jane 4J API 159 TI 99 Homo Polled/Homo Black - PB SM



LCDR Ms Jolene 32J API 159 TI 99 Homo Polled/Homo Black - PB SM

LCDR Favor x 5G flush mates to a stand out set of full brothers!
Pick will sell!



LCDR Ms Jinks 382J API 147 TI 93 Homo Polled/Black Pending - 3/4 SM



LCDR Ms Julia 12J API 176 TI 105 Homo Polled/Homo Black - PB SM



LCDR Ms Jade 2J API 176 TI 105 Homo Polled/Homo Black - PB SM

Pick of the 8678 (2941225) x C4 daughters will be a sale highlight!



LCDR Ms Jani 77J API 156 TI 87 Homo Polled/Red Blaze - PB SM



LCDR Ms Jetta 93J API 164 TI 100 Homo Polled/ Black Pending - PB SM





LCDR 57J API 162 TI 92 Homo Polled/Homo Black - PB SM BCLR Cash Flow x 836Z daughter that offers an outcross! Pick of the 836Z daughters will sell!

Why Use EPD and Indices to Make Decisions for Bull Sales?

by Chad Russell, master of science student with Dr. Spangler at the University of Nebraska-Lincoln



Chad Russell

EPD and indices are valuable selection tools, and can be especially useful when selecting your next herdsire.

Until the development of expected progeny differences (EPD), most purchasing decisions of bulls were based on phenotypic measurements and features as an estimate to how that bull's calves would perform. Phenotypes (P) are the combination of genetics (G) and environment (E); (P = G + E). There are components of genetics that aren't heritable, such as the unique combination of genes that results in hybrid vigor, or inbreeding suppression. These gene combinations will influence an animal's own phenotype, but won't be passed down to their offspring. EPD estimates only the heritable genetic component of that animal. So why would you want to make a purchase decision just on the genetic merit?

For an example, let's look at the relationship between an animal's own birth weight and the portion of that phenotype related to their genetic merit for birth weight. If you were to take two bulls whose EPD for birth weight were -1.0 and -4.0 lbs. and you breed your herd to both of these bulls, in a hypothetical situation where the calves have the same environment, the equation P = G. As a result, the second bull's calves would on average be 3 lbs. lighter at birth, all other factors equal, which may reduce the number of problematic births caused by dystocia.

But that single birth weight you see in the catalog for that bull is influenced by his environment and his unique gene combinations, which aren't heritable. Was he treated differently than other bulls, or weighed later or as soon as he hit the ground? EPD predictions use his own birth weight record as well as records from his half-sibs, parents, and any relevant genetic information — such as breed, birth year, comparisons to contemporaries, genomics, and pedigree — to better estimate his true potential and prevent over-or underestimation based off of just his own birth weight record.

Similarly, we are able to improve the accuracy of the estimate of his potential by using records from his progeny. However, it takes time for his calves to hit the ground, and a risk is being taken by using him for breeding when the accuracy is lower. Enter genomic testing. By identifying markers in his DNA that play major parts in his performance, we can incorporate information that is equivalent to already having ~ 20 calves on the ground. This provides an increase in accuracy that may alleviate some risk from breeding a bull to your cows and not getting what you want.

Adding a DNA test to your decision is like knowing . . .

- 25+ calving ease scores
- 22 birth weights
- 25+ yearling weights
- Stayability/productivity records on 15 daughters
- 6 carcass weights
- 10 marbling scores
- 8 ribeye measurements

All this from a test you can complete before you wean the calf.

SAII Purpose Index (SAPI) Predicts cow herd profitability using valuable traits like cow longevity (STAY) and calving ease while keeping pressure on terminal traits. Compare the profit potential of two Simmental bulls using \$API Bull A's \$API = \$120 and Bull B's \$API = \$180 Breeding 25 females/year Used for 5 years \$API # Females Bull Profit # years using Potential per year the bull A \$120 25 \$15,000 \$180 \$22,500 25 5 Difference Just like an EPD, compare two bulls to see the expected difference in profit. Bull B is likely to result in direct revenue and expense savings of an additional \$7,500 over the course of five years. Plug in your numbers

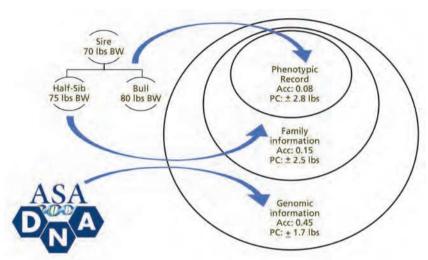
for [], [], and [] to compare your potential earnings.

These influences on phenotypes hold true for all heritable traits, which leaves a lot to consider when buying a bull. In order to make it simpler, we have indices such as the All Purpose Index (\$API) and Terminal Index (\$TI) that take into account many EPD and combine them in one value expressed in dollars of profitability predictions among bulls. These indices estimate profitability when a percentage of

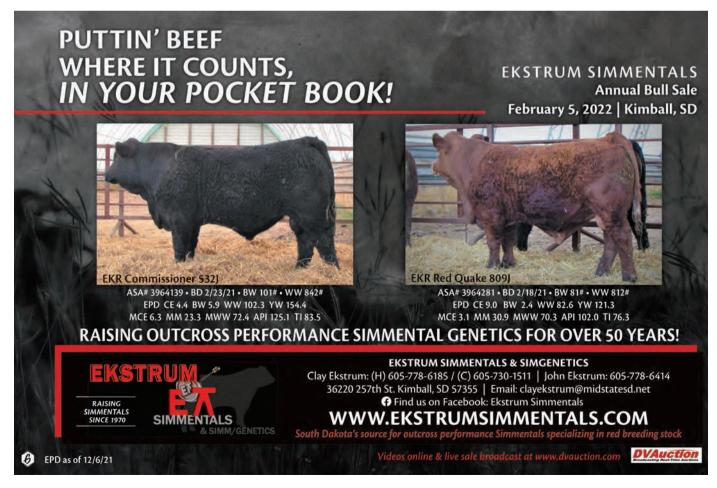
daughters remain in the herd as replacements and other calves are terminal (\$API), or a strictly terminal system (\$TI), depending on what your operation needs to meet its goals.

This bull sale season, study the numbers to ensure you select the heritable portion of what you see and pay attention to economic indexes to select for profitability of future genetics.

Incremental increase in accuracy of an EPD



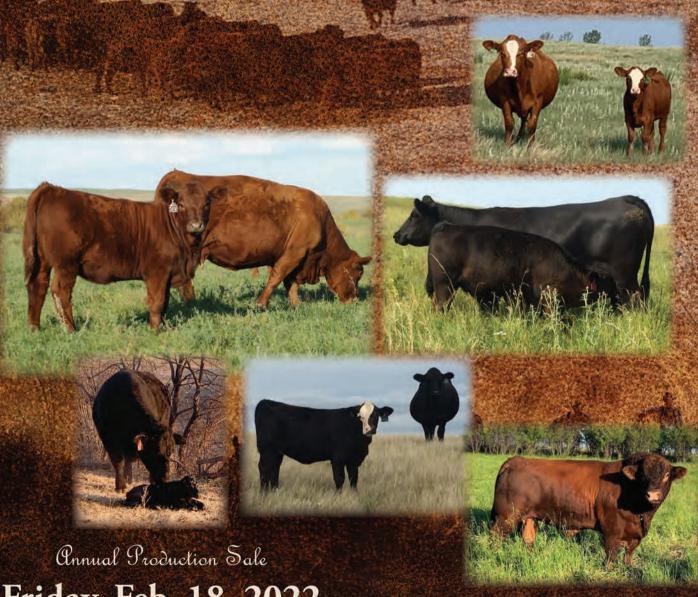
As more information is known on an animal. the accuracy of the EPD increases. Information includes an animal's own records; family information, such as parents and siblings and their records; genomics; and eventually progeny. Genomic information for BW adds an equivalent of 22 progeny records. For example, if a bull had a BW EPD of 2.0 lbs. and an accuracy (Acc) value of 0.15., the associated possible change (PC) is ± 2.5 lbs. Therefore, we would expect his "true" BW EPD to be between -0.5 and 4.5 lbs. (2.0 ± 2.5) 68% of the time. If genomics are added, the accuracy might increase to 0.45 and the possible change will drop to 1.7, leaving a range for his "true" BW EPD between 0.3 and 3.7.





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We have more than 90 years of combined expertise in breeding Simmental cattle that will have a positive impact on your herds now and into the future!



Friday, Feb. 18, 2022
Kist Livestock, Mandan, ND · 1 p.m.
130 Bulls and 50 Bred Heifers

Red and Black Simmental and SimAngus Genetics

Dakota Xpress families celebrate 90+ years of history raising Simmental cattle

When the Staigle and Hansen families began using Simmental genetics in the late 1960's and 1970's, respectively, both families appreciated the performance, added growth and extra shot of heterosis their Simmental bulls injected into their calves. They saw qualities in those Simmental calves that have stood the test of time. Both families were recently recognized by the North Dakota Simmental Association as Pioneer Breeders and Promoters of the Year.

"Our commitment today – as it was then – is to produce sustainable livestock systems that will endure for generations down the road," said Wade Staigle, a founding member of the Dakota Xpress Simmental group and owner of Mandan Lake Simmentals at Center, N.D.

"The life of ranching in North Dakota takes many hours of planning and a constant attention to detail and organization," added Kevin Hansen, owner of Hansen Simmental Ranch at Ryder, N.D., and founding member of Dakota Xpress. "Ranch work is never quite complete as there is always something that needs attention, but it is a lifestyle and work ethic that we truly feel we are blessed to be involved in on a daily bases."

Both operations take great pride in providing quality seedstock and the opportunity to work together to market them through the Dakota Xpress sale.

Staigles and Hansens strive to produce functional cattle that have unassisted calving, rapid growth to weaning and yearling, and possess a high quality carcass with marbling and rib eye. They are also equally interested in the maternal aspect of the cow/calf operation.

"Cows need to calve on their own, have the maternal instinct to mother the calf and raise a rapid gaining calf to weaning," Staigle said.

The cow needs to do all this on a grass diet in the summer months and a high roughage ration in the winter months, with little or no additional supplement," added Hansen. She also is expected to breed back annually producing a calf that has those trouble free attributes bred into the genetic package.

"We feel privileged to work together as two separate ranches with like minded family values, and philosophies when raising cattle and kids, Hansen said.

Both Staigle and Hansen ranches were started by their parents and grandparents so the land they ranch on has been in the family for generations. The goal formulated on our ranches is to pass that legacy on to our children and the families to follow.



The Kevin Hansen Family



The Wade Staigle Family



Laramie Staigle and Slade Hansen are third-generation friends and aspiring Simmental breeders.





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

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WS Prime Beef Z8
ASA# 3784793 • Red • Homo Polled
Exciting, complete, homo polled, rare Red
Answer son!



Mr SR 71 Right Now E1538 x JBS Big Casino 336Y ASA# 3568352 • Homo Black • Homo Polled A true spread bull with extra MCE, Docility, Marbling and production profit potential.



WS Proclamation E202
CCR Cowboy But 5048Z x WS Miss Sugar C4
ASA# 3254156 • Homo Black • Homo Polled
Proclamation is one of the ELITE, must-use
superstars!



Rocking P Vintage H008
Pays To Believe x Quantum Leap
ASA# 3772248 • Black • Polled
2021 Cattlemen's Congress Division
Champion! COOL!



SC Pay the Price C11
Pays to Dream x Trademark
ASA# 2988788 • Homo black • Hetero polled
Two-time NWSS Grand Champion Bull



WCL No Limits G302
Mr. CCF 20-20 x American Pride
ASA# 3659712 • Homo black • Homo polled
No Limits is a neat patterned bull out of
the legendary 20-20!



Mr CCF 20-20 x
Miss CCF Sheza Superstar by Duracell
ASA# 3275273 • Homo black • Homo polled
Backed by the Louisville and Denver Champion
Sheza Bonnie, Clarified offers elite phenotype,
proven genetics, and a balanced EPD profile.



OBCC CMFM Deplorabull D148W/C Executive Order x LazyH/Adkins Blkstr Z15
ASA# 3150188 • Homo Black • Homo Polled
Newly on the open market for 2021! Deplorabull 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.



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



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!



LLSF Vantage Point F398CCR 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.



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.



LCDR Affirmed 212H
EGL Firesteel 103F x WS Miss Sugar C4
ASA# 3812282 • Homo Black • Homo Polled
Use him to make those next generation
Purebreds. Excellent foot shape and depth
of heel.



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.



VOLK Backdraft CC F810W/C Executive Order 8543B x JS Flatout Flirty
ASA# 3528566 • Red • Polled
Backdraft owns unrivaled maternal strength,
combining noted breed-leaders "Flatout Flirty"



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!



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!





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.



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!

CATTLE Sisions

573-641-5270 • www.cattlevisions.com



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 \$API Purebred and #2 Marbling Purebred!



CCS/WHF OI` Son 48F

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



Ruby/SWC Gentleman's Jack

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



W/C Bet On Red 481H

W/C Fort Knox x W/C Relentless ASA# 3808091 • Red • Homo Polled Griswold's red bull purchase from the 2021 Werning sale!



H/C - W/C Fast Lane 9085G

Rubys Turnpike 771E x W/C Miss Werning A343 ASA# 3667480 • Homo Black • Homo Polled A popular feature in the 2020 NWSS Pen Show!



W/C Bank On It 273H

PW/C Bankroll 811D x Hooks/ KS Sequoia ASA# 3808104 • Hetero • Black Homo Polled Griswold selected him at the \$202,000 high seller at Wernings 2021 sale!



W/C Express Lane 29G

Rubys Turnpike 771E x Hooks Shear Force 38K ASA# 3644933 • Homo Black • Homo Polled Complete Turnpike son at Western Cattle Source, NE!



SWSN Cash Flow 81E

Profit x MR CCF Vision
ASA# 3348420 • Black • Polled
Cash Flow sired some of Hartman's and
Vogler's high selling lots this past year!



SAS Infra-Red H804

All Aboard x Erixon Bitten
ASA# 3803257 • Red • Homo Polled
One of the hottest red bulls to sell in 2021!



SAS Big Casino H214

Drake Poker Face x Erixon Bitten
ASA# 3803217 • Homo Black • Homo Polled
Big-bodied performance driven baldy!



Bar CK Red Empire 9153G

IR Imperial x CDI Verdict
ASA# 3766616 • Homo polled
High selling bull at BAR CKs 2021 Sale! Top 1%



W/C Innovator 533H

CDI Innovator x WS Miss Sugar C4
ASA# 3808125 • Homo Black • Homo Polled
Maternal brother to WS Proclamation and
LCDR Impact and Favor. 533H is a power bull
with a 1,500# YW.



W/C Sugar Daddy 9002H

CDI innovator x WS Miss Sugar C4
ASA# 3808126 • Homo Black • Homo Polled
Maternal brother to WS Proclamation and LCDR
Impact and Favor. 9002H is the CE leader
Innovator son and higher \$API.



RBS Upper Hand H288

W/C Bankroll 4254F x RBS Uptown
ASA# 3827413 • Hetero Black • Homo Polled
Reck's 2021 high seller to Hart's, SD. Reck's
describe him as impressive a bull they've raised.
902# WW combined with excellent feet, joints
and profile!



CKCC Relevant 0639H

ES Right Time x WCS Mr Razor

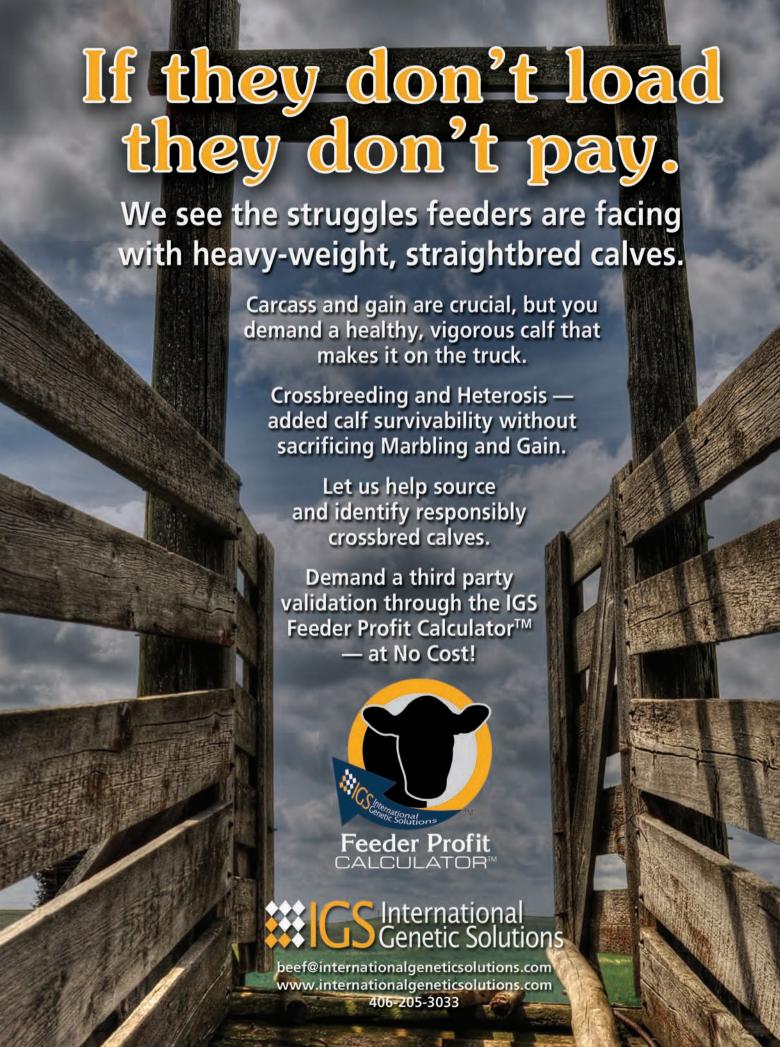
ASA# 3786555 • Homo Black • Homo Polled

One of the few Right Time sons to be availble
this season. He's a powerfully constructed, heavy
muscled 3/4 who was the second high seller at
CK/Wager Sale.



S&S TSSC Limitless 041H (1/2)

Conley No Limit x WS Revival ASA# 3776857 • Black • Polled Calf champion at 2020 NAILE and 2021 Royal!



ANNOUNCING OUR ONLINE SALE

MONDAY MARCH

CLOSES 8:00 PM CST SELLING ELITE FALL BORN HEIFERS & STRONG BREEDING AGE HERD SIRES

THANK YOU TO EVERYONE WHO PURCHASED OUR GENETICS FROM THE EVENT, COWBOY KIND & OUR ONLINE BULL SALE THIS FALL!



Benes Family Gateway Genetics



Jeremy Leech



Anderson Farms



Joseph Blount & Kade Stuckly



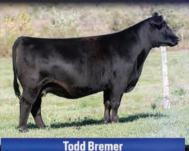
Anderson Farms & Sisco Brothers



RS&T Simmentals

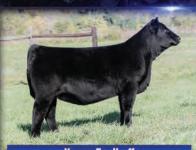


Chris Woerner





Ryan Belgum & Quentin Smola



Kenny Egelhoff



DEAN VOLK // 402.992.9997

84204 545TH AVE • BATTLE CREEK, NE 68715





Success. SimAngusm.

"To really see premium value at a good cost of gain, animal genetics need to have potential for both muscle and marbling. Simmental and Simmental-crossed cattle really fit the bill."

Tracy Brunner Cow Camp Feedyard

"A large percentage of the cattle we feed have Simmental influence. Simmental has what a lot of cows need — more carcass weight, more live weight, more ribeye area, and still keeps the marbling intact."

Tom Williams Chappell Feedlot

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

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



American Simmental Association

www.simmental.org



beef@internationalgeneticsolutions.com www.internationalgeneticsolutions.com

Our customers are at the CENTER of our breeding decisions!

47th Anniversary Production Sale

Saturday, February 5, 2022

Private Treaty Auction • 1 p.m. CST Sharp
At the Farm • Corning, Iowa

RED ANGUS • RED SIMMENTAL • RED SIMANGUS™

110 Yearling Bulls

- 30 years of carcass traits, ultrasounding since 1993
- · Calving ease
- Performance
- · Disposition
- · Uniform, thick and easy-fleshing
- Priced from \$3,000, \$3,200 and \$3,500

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



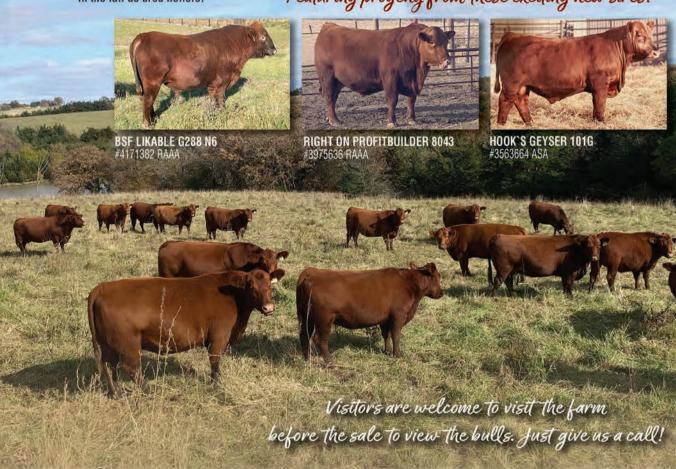
For 47 years, we have been breeding cattle with our customers in mind. Every breeding decision we make is weighed on the principles of balanced traits that deliver profitability.

Through complete, predictable genetics, we are able to offer our loyal customers options that fit their operation whether they are selling calves off the cows, backgrounding or finishing. And if our

customers retain their replacement females, they can be confident our genetics will carry the maternal qualities that make superb, productive cows.

We encourage you to share your operation's goals with us and let us help you discover how Loonan genetics can add profitability to your bottom line.

Featuring progeny from these exciting new sires!



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Judy's Cell: (515) 423-5642 • Rick's Cell: (515) 229-0920 Email: lsfrras@gmail.com • loonanstockfarm.com

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MEANS MORE





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

Simmental genetics offer all this and more of the traits your herd needs to stay profitable.

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

All to strengthen your bottom line.

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31st Annual Bull & Female Sale

Schiefelbein Showman

Reg. # 19260249

Our record setting, top selling bull.

Semen available at Bull Barn

400 Bulls Sell...

Sat., February 19, 2022 • 11 a.m.

at the farm near Kimball, MN

Plus

Registered Angus Bred Heifers Sell!

Featuring large groups of the breed's leading sires:

Showman Woodhill Relevance Wall Street Growth Fund SYDGEN Enhance Mogck Entice GAR Home Town GAR Ashland Musgrave Crackerjack 38 Special The Rock Woodhill Blueprint Schiefelbein; Skol, Endgame, Attractive, Rhombus, Allied,

plus many, many more.

Protocol, iBULL, Warranty Jindra Acclaim Baldridge Beast Mode Tex Playbook 5437 Colonel Discovery

Sitz Resilient VAR Power Play Let us help you top the market!

 DNA Tested through

LD Capitalist

ANGUSGS

Free Delivery
 Sight Unseen Guarantee

Don't Miss Minnesota's Largest Angus Sale!

Find Your Bull Here! ♦ Saturday, Feb. 19, 2022

Plan to join us for these events:

Friday, February 18, 2022

12 noon Viewing of Sale Cattle
2 till 5 pm Tour of the Farm

4 till 6 pm Social Hour (Free Drinks & Appetizers)

5 pm Premium Beef Panel

6 pm Free Prime Rib Dinner with all the fixings

Saturday, February 19, 2022

9:00 am Viewing of Sale Cattle 10:30 am Free Beef Lunch 11:00 am 2022 Sale Begins

(NOTE: All events will take place at the sale facility)





Find us on Facebook Contact us today! Visitors always welcome.

Schiefelbein Farms

Frank Schiefelbein & Family

74208 360th St., Kimball, MN 55353

320/266-8487 (Dan) • 320/224-5830 (Tim) • 303/324-5149 (Don) info@schiefelbeinfarms.com • www.schiefelbeinfarms.com

www.schiefelbeinfarms.com

Before you load that new bull . . .

There is something you deserve to know.

The Problem:

Cattle feeders are experiencing abnormally high death loss with many straightbred calves.

The Solution:

Responsible Crossbreeding with Simmental

Highlight the health and genetic value of your Simmental influenced calves through the

IGS Feeder Profit Calculator™.



PRODUCTION SALE AT LONG'S SIMMENTALS

February 7, 2022 at 1:00 pm | At the Farm in Creston, Iowa

The gates are open!



Long's Full Figure J23Hook's Full Figure 11F x Long's U30
Purebred herd sire prospect with an elite number profile!



Long's Loaded Up J100 W/C Loaded Up 1119Y x Long's Carmen Homo Polled son of the National Champion, Carmen!



Long's Player H64 Long's The Player x Long's D40 Safe Al to Long's/BF Entitled H15 - Due 2/11/22



Long's Carmen 2019 AJSA National Champion Bred & Owned Progeny, an IVF Cycle, & exclusive genetic opportunities will sell!



REGISTERED SIMMENTAL, ANGUS AND SIMANGUS™ BULLS



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



ELITE REGISTERED SIMMENTAL BRED FEMALES

LONG'S SIMMENTALS

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

Watch Facebook for sale features, videos and more information!



ALL PURPOSE MORE PROFIT



28%
\$API SAPI PER BULL

The American Simmental Association's \$All Purpose Index (\$API) predicts cow herd profitability while keeping pressure on terminal traits.

And data from the last two decades show it's working.

Better genetics translate to increased profits for bulls used to sire replacement heifers and harvest remaining calves.

Build a herd that works as hard as you do.

STAND STRONG SIMMENTAL

406-587-4531 • simmental.org

Annual Production Sale Monday, February 14, 2022 - 1:00 PM

Kimball Livestock Exchange, Kimball, SD



CCR Boulder x DCR Domination 3/4 SM • BD:2/16/21 • ASA# 3956915 Adj. WW: 679 lbs. Ratio: 102 WW YW ADG MCE Milk MWW \$API \$TI 75 114 .24 7 25 62 138 81



BCLR Cash Flow x CNS Dream On PB SM • BD: 3/22/21 • ASA# 3956809 Adj. WW: 758 lbs. Ratio: 114 WW YW ADG MCE Milk MWW \$API \$TI 87 129 026



3BS Earl x WS Prime Beef PB SM • BD: 3/12/21 • ASA# 3956789 Adj. WW: 785 lbs. Ratio: 118 WW YW ADG MCE Milk MWW \$API \$TI 98 139 .26 6 32 81 143 92



JBS Mr Renown 731.

SAV Renown x JBS Big Casino 1/2 SM • BD: 3/22/21 • ASA# 3956806 Adj. WW: 756 lbs. Ratio: 114 WW YW ADG MCE Milk MWW \$API \$TI



JBS Mr Blackhawk 902

Hook's Blackhawk x CCR Boulder 5/8 SM • BD: 2/25/21 • ASA# 3956934 Adj. WW: 791 lbs. Ratio: 119 WW YW ADG MCE Milk MWW \$API \$TI 70 155 93 92 142 .31 9



JBS Mr Night Watch 907

W/C Night Watch x J Bar J Nightride PB SM • BD: 2/16/21 • ASA# 3956920 Adj. WW: 787 lbs. Ratio: 119 CE BW WW YW ADG MCE Milk MWW \$API \$TI 16 -1.3 92 133 .26 8 31 76 158 96

Other Sires:

Hook's Frontline, WS Proclamation, TJ Main Event, WCS El Dorado, Cables Turn Ur Head

We will winter the bulls until April 15 and semen test.

Bulls had no creep feed.

Cattle pictures can also be viewed at: www.bendaranch.com

Contact us for a sale catalog.

Also selling this year:

24 top-end registered bred heifers, most will calve in March

Video Sale - watch and bid online



Jim & Jay Benda 26106 366th Ave, Kimball, SD 57355



JBS Miss Night Watch 804H

W/C Night Watch x JBS Mr Force 107A • PB SM • BD: 2/12/20 • ASA# 3792517 WW YW ADG MCE Milk MWW \$API \$TI

77 111 .22 7 33 71

email: bendaranch@midstatesd.net • www.bendaranch.com Home: 605-778-6703 • Jim Cell: 605-730-6703 • Jay Cell: 605-730-0215



10th Annual Production Sale

FEB. 6, 2022

AT THE RANCH . HURDSFIELD, ND

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

& 25 commercial bred black heifers



W/C LOCK DOWN 206Z x DCR MR POWER UP E68 ASA#: 3953732 • BD: 2/17/2021 • 3/4 SM 1/4 AN

Act. BW	EDDC	CED	BW	ww	YW	MCE
89	EPUS	10.4	2	96.1	146.7	6.8
Adj. 205	MILK	MWW	MARB	REA	API	TI
851	28.9	76.9	0.12	0.88	119.3	83.9



WLB BLOOD RUNNER 3011C 461F x KLSR GAME CHANGER Z32 ASA#: 3982287 • BD: 3/18/2021 • PB SM

Act. BW	EDDC	CED	BW	ww	YW	MCE
Adj. 205						
850	24.9	70.2	-0.11	0.99	115.2	73.9



WLB BLOOD RUNNER 3011C 461F x MRL RED WHISKEY 101B ASA#: 3953684 • BD: 3/5/2021 • PB SM

Act. BW	EDDC	CED	BW	ww	YW	MCE
89	EPUS	6.7	3.7	85.7	123.8	3.7
Adj. 205	MILK	MWW	MARB	REA	API	TI
793	23.6	66.4	-0.01	0.91	120.3	75.9



WLB BLOOD RUNNER 3011C 461F x IPU ROYAL FLUSH 4C ASA#: 3953709 • BD: 3/15/2021 • 3/4 SM 1/4 CS

	0,000,0			201	21 1 2111 11 12 22		
Act. BW	EDDS	CED	BW	ww	YW	MCE	
101	EPUS	3.7	6.2	90.7	133.4	0.8	
Adj. 205	MILK	MWW	MARB	REA	API	TI	
816	25	70.3	-0.02	0.98	107.8	75.2	

ANNIVERSARY



MRL RED WHISKEY 101B x OLF RED PATRIARCH W124 ASA#: 3953679 • BD: 3/7/2021 • PB SM

100						- 20
Act. BW	FDDS	CED	BW	ww	YW	MCE
90	EPUS	11.6	1	80.3	122.7	7.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
782	22.9	63	0.24	0.81	129.8	78.7



MRL RED WHISKEY 101B x OLF RED PATRIARCH W124 ASA#: 3953686 · BD: 3/4/2021 • PB SM

Act. BW	FDDC	CED	BW	ww	YW	MCE
95	EPUS	7.1	3.4	88.8	126.6	7.5
Adj. 205	MILK	MWW	MARB	REA	API	TI
819	24.8	69.1	0.08	0.79	123.5	80.5





Act. BW EPDS CED BW WW WW MCE 100 5.4 5.8 93.6 136 5.4 Adj. 205 MILK MWW MARB REA API TI 774 22.8 69.5 0.04 0.86 111.7 79.2

Visitors welcome anytime!

Monty & Terri • Matt, Eddy, Emersyn & Landri Kline Matt: (701) 693-6317 • Monty: (701) 693-6806

FEEDER CALF MARKETING ASSISTANCE REPLACEMENT HEIFER CALF BUY BACK

Our enstomers' success is our success!



LFE THE RIDDLER 323B x IPU ROYAL FLUSH 4C ASA#: 3953665 • BD: 3/2/2021 • PB SM

Act. BW 98	EDDC	CED	BW	ww	YW	MCE	
		5.8	4.2	97.8	154.4	4.8	
Adj. 205	MILK	MWW	MARB	REA	API	TI	
(42-20-23-20)	132626247	71.1			131.1		



SITZ STELLAR 726D x LFE THE RIDDLER 323B ASA#: 3953707 • BD: 2/15/2021 • 1/2 SM 1/2 AN

Act. BW	EDDS	CED	BW	ww	YW	MCE
85	EPDS	11.7	0.6	96.7	155.7	7.2
Adj. 205	MILK	MWW	MARB	REA	API	TI
796	21.9	70.3	0.37	0.64	145.7	91.2



SITZ STELLAR 726D x QB BLUEPRINT D47 ASA#: 3953676 • BD: 2/21/2021 • 1/2 SM 1/2 AN

Act. BW	EDDE	CED	BW	ww	YW	MCE
84		10.3	1.5	90.7	145.5	5.4
Adj. 205	MILK	MWW	MARB	REA	API	TI
	19.6		0.37			



DCR MR MAIN ATTRACTION E18 x KLSR RED MAN Y26
ASA#: 3953674 • BD: 3/19/2021 • PB SM

100						
Act. BW	ct. BW EPDS	CED	BW	ww	YW	MCE
90	EPUS	5.1	3.8	77.9	112.9	1
Adj. 205	MILK	MWW	MARB	REA	API	TI
802	30	69	0.08	0.94	120.5	74



DCR MR MAIN ATTRACTION E18 x S A V HARVESTOR 0338 ASA#: 3953725 • BD: 3/18/2021 • 3/4 SM 1/4 AN

Act. BW	Act. BW EPDS		CED BW		YW	MCE
97	EPDS	5.9	4.1	78.6	123.4	5.1
Adj. 205	MILK	MWW	MARB	REA	API	TI
793	27.1	66.4	0.17	0.75	106.8	71.6



SPRINGCREEK IRONSIDES 53G x NLC BREAK FREE 72W
ASA#: 3953666 • BD: 2/19/2021 • PB SM

Act. BW	EDDC	CED	BW	ww	YW	MCE
97	EPDS	7.8	4.4	96.3	145.2	6.5
Adj. 205	MILK	MWW	MARB	REA	API	TI
787	28.8	76.9	0.12	1.01	137.5	85.5



SPRINGCREEK IRONSIDES 53G x TNT TANKER U263 ASA#: 3953682 • BD: 3/5/2021 • PB SM

Act. BW	EPDS	CED	BW	ww	YW	MCE
96		4.4	5	91.4	136.4	4.9
Adj. 205	MILK	MWW	MARB	REA	API	TI
779	31.3	76.9	-0.02	1.04	119.9	77.9



SPRINGCREEK IRONSIDES 53G x LFE THE RIDDLER 323B ASA#: 3953693 • BD: 3/1/2021 • PB SM

	Act. BW	rnnc	CED	BW	ww	YW	MCE
	90	EPDS	5.4	4.5	93.5	146.4	5.2
	Adj. 205	MILK	MWW	MARB	REA	API	TI
	788	D 4 W	78.2	0.03		1203	



WLB MANITOBA 52Z 435B x RENDEZVOUS LOCOMOTIVE 80 ASA#: 3953689 • BD: 3/20/2021 • 3/4 SM 1/4 AN

Act. BW	EPDS	CED	BW	ww	ww Yw	
91		5.5	4.1 8	87.5	125.4	2.8
Adj. 205	MILK	MWW	MARB	REA	API	TI
			0.02		97.8	

INDUSTRY UPDATE

ASA Invites You to Houston

by Chip Kemp, director, ASA and IGS Commercial and Industry Operations

The calendar can cause a bit of anxiety this time of year. Holiday schedules, kids' basketball games, tax deadlines, calving dates, AI timelines, and bull sales. With all the fancy new technology to track our schedules we still haven't found a way to offload the actual responsibility of performing the task. Yes, we more easily keep things straight, but that usually means we just add more things to our commitment list. Schedule organization often seems to beget more and more obligations on the schedule.

But, on occasion there are new professional development experiences that one must consider. Or for some, maybe it is a bucket list item. No matter what you consider it — work or play — if you are considering adding the 2022 NCBA convention to your calendar I strongly urge and invite you to stop by the International Genetics Solutions (IGS) pavilion. This is a brand-new approach to industry outreach. Many of the IGS partners will be working together to share the story of their individual organizations along with the power of collaboration for the betterment of the beef business. You can stop

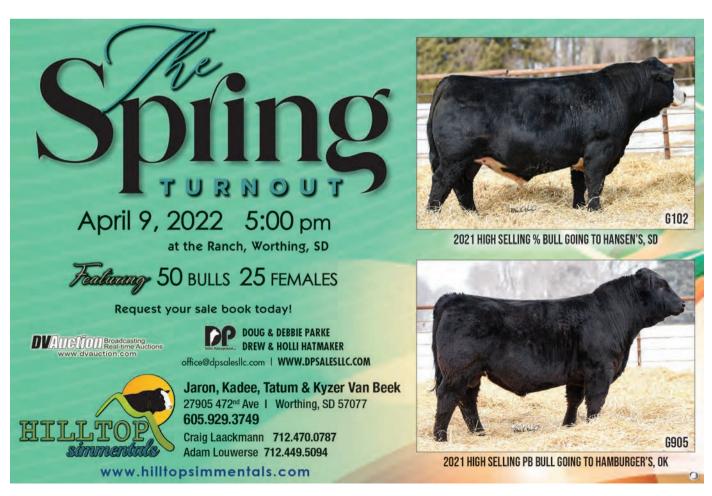
by the American Simmental booth within the pavilion (booth 2517) to discuss the latest opportunities and approaches for our members and their customers. You can also view industry-relevant talks and panel discussions at the IGS hub (booth 2425). Stay tuned to our various outlets to learn more specifics on what we have planned for NCBA.

Your ASA team looks forward to visiting with many of you in Houston in early February. You can find the details at convention.ncba.org. In the meantime, continue to conquer that calendar!

NCBA Demands Definitive Labels for Lab-Grown Meat

In early December, the National Cattlemen's Beef Association (NCBA) submitted comments to the United States Department of Agriculture's Food Safety and Inspection Service (USDA-FSIS) related to the labeling of meat or poultry products that contain lab-grown animal cells. NCBA believes that the term "beef" should only be applicable to products derived from livestock raised by farmers and ranchers.

CONTINUED ON PAGE 58



ALL IN C. MISSELLER AND MISSELLER

SUNDAY, **JANUARY 30TH** 12:00 NOON 24216 RIDGE ROAD. BLAKESBURG, IA



RBS Lover Boy H526 THSF Lover Boy B33 x Rhythm E748 3/4 SM Herd **Bull Prospect**

RBS 4254F H681 W/C Bankroll 4254F x RBS D681 PB SM Herd **Bull Prospect**



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Mr SR 71 Right Now E153B x RBS Zahara PB SM Herd Bull Prospect **RBS Yours Truly H016**

RBS Right Now H282



RBS 4254F H460 W/C Bankroll 4254F x **RBS B460** PB SM Herd Bull Prospect



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INDUSTRY UPDATE

As USDA-FSIS works to develop regulatory standards for labeling lab-grown, or cell-cultured, protein products, NCBA is committed to ensuring that product labels are fair, accurate, and will safeguard a level playing field for all protein products competing in the marketplace.

The regulations USDA develops now will play a crucial role in ensuring adequate consumer understanding, and NCBA feels strongly that the best way to accomplish this is through labeling standards that will clearly differentiate these products by way of a "lab-grown" label.

"An NCBA consumer survey showed that when purchasing protein, 74% of consumers agree that there should be a definitive indication of whether meat being purchased is lab-grown or conventionally produced," said NCBA senior executive director of Government Affairs Danielle Beck. "If one thing is clear from our research, it's that consumers want clear and definitive labels."

The word "beef" represents a brand that has been cultivated through decades of innovation and stewardship by farmers and ranchers across the US. NCBA will continue to engage with both USDA and FDA to ensure that the regulations governing

these products are science-based, appropriately prioritize food safety, and promote honesty and fair dealing in the interest of consumers.

Optimizing Body Condition Scores in the Herd Before Calving

Kansas State University Extension

Holding a thin body condition over the winter may create deficits for cattle heading into calving season, said the experts at Kansas State University's Beef Cattle Institute on a recent Cattle Chat podcast.

"Thin cows have a higher maintenance requirement in the winter than cows in adequate condition because they have to work harder to stay warm," said Bob Weaber, beef cattle specialist and podcast contributor.

To assess the herd, veterinarian Bob Larson suggests ranchers periodically check them and even take pictures of the herd to help monitor changes over time. "In any group, I expect some variation in the condition, but ideally I want almost all the cows to be in a moderate body condition," Larson said. "And if they are, then I know that I am managing the group pretty well."





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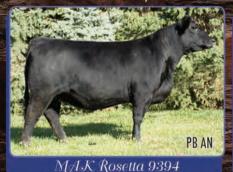
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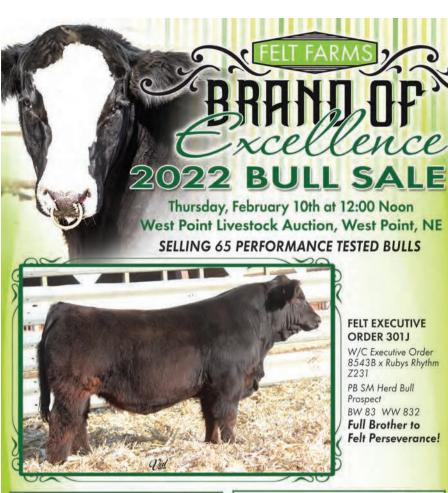


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INDUSTRY UPDATE

CONTINUED

Larson said if cattle ranchers notice that there are thin cows in the herd, they may need to evaluate the situation further to see if there is a pattern tied to their age or access to feed.

"The number of [thin] cows in the herd will creep up if, for example, they are getting pushed out of the feed bunk and not getting the protein supplementation they need," Larson said.

The experts agree that two feet of bunk space per head is a minimum amount of space needed.

"If you only allocate a foot and a half on a single-sided feed bunk, the big cows will push out the thinner, smaller cows that really need the feed," Weaber said. He prefers to place the feed bunk in the middle of the pasture so cattle can access the feed from both sides.

Larson added that the amount of bunk space needed will depend on the type of feed provided and how quickly the cattle consume it.

"Big cubes fed on the ground will allow the cattle to have easy access because you can spread it out, but there is more feed waste and sanitation issues that come with that strategy," veterinarian Brad White said.

Once producers determine why some of the cows are thin, they may need to make culling decisions or form a plan to add condition back on the cows, according to Weaber. "Identify the commonalities of the problem animals, and that will determine the best management strategies to fix it, as well as [provide] knowledge for the future," Weaber said.

CONTINUED ON PAGE 66



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American Simmental Association

To learm more about the CMP visit www.simmental.org, then click Carcass Merit Program under the Commercial tab.

Questions, contact lgiess@simmgene.com for more information regarding this program.

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Ay February 16, 2022 · 1:00 PM At the farm 2 miles south of Frederick, SP



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Homo Black, Homo Polled Act BW: 90 Adj WW: 870 Hart Most Wanted 0836 x BBS True Justice B10 CE 5, BW 4.1, WW 93, YW 141, MCE 4, MILK 30, MWW 77, API 108, TI 78 RT SUMMIT 4421 - 3896474 PB SM Homo Black, Homo Polled Act BW: 90 Adj WW: 843 QB Last Frontier F42 x W/C Utah 534A



HART BLUNT FORCE 1751 - 3896410 PB SM

Homo Black, Homo Polled Act BW: 80 Adj WW: 833 CE 12, BW .5, WW 75, YW 104, MCE 6, MILK 26, LHT Main Force 1846 x BBS True Justice B10 MWW 64, API 100, TI 67



CE 15, BW -1.2, WW 90, YW 134, MCE 7, MILK 25, MWW 70, API 160, TI 94 Hook's Black Hawk 508 x Koch Big Timber 685D



ALL CATTLE WCS El Dorado 5209C x OBCC King Pin GENOMIC CE 7, BW 4.7, WW 80, YW 127, MCE 4,





HART RUSTY 151J • 3896619 PB SM

HPF Right To Love 365D (Cholo) x SAS T101 Sweet Meat Red Baldy, Homo Polled Act BW: 83 Adj WW: 938 CE 11, BW 4.1, WW 104, YW 153, MCE 7, MILK 22, MWW 74, API 117, TI 89



HART STAGECOACH 040J • 3896597 PB SM

Homo Black, Homo Polled Act BW: 78 Adj WW: 926 BBS True Justice B10 x WCS El Dorado 5209C CE 8, BW .9, WW 85, YW 126, MCE 8, MILK 36, MWW 78, API 127, TI 81



HART WANDA 334J • 3896310 PB SM Homo Black, Homo Polled Act BW: 76 Adj WW: 709

CE 11, BW 1.3, WW 80, YW 121, MCE 5, MILK 19, LHT Main Force 1846 x GLS Integrate Z3 MWW 59, API 110, TI 74



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HART CHEDDER 013J • 3896505 PB SM Homo Black, Homo Polled Act BW: 71 Adj WW: 875

CE 11, BW 1.5, WW 108, YW 162, MCE 6, MILK 27,

MWW 81, API 167, TI 107

K-LER Franchise 804F x WHF Eclipse E35

HART BAYMAX 037J - 3896130 PB SM

Homo Black, Homo Polled Act BW: 74 Adj WW: 800 CE 14, BW 1.8, WW 79, YW 114, MCE 10, MILK 34, HSR Power Plus D206 x Hart Mega Watts 019C MWW 74, API 136, TI 78



Homo Black, Homo Polled Pending Act BW: 74 Adj WW: 700 HART COVER GIRL 1411 • 3896312 PB SM

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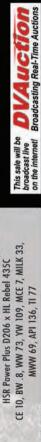
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INDUSTRY UPDATE

White suggested producers look at ways to segregate the thin cows. "Grouping the thin cows together can be a powerful tool in giving them the extra feed they need ahead of calving season," White said. The challenge, he added, may lie in where they are located and the ease of separating them for feeding.

Larson said it is important to consider where the cow is in the pregnancy when coming up with the supplementation plan. "Right now, spring calving cows are midway through their pregnancies and the calves are not pulling that much nutrient demand from them, but as they get closer to calving that demand goes up significantly," Larson said.

He added: "The cow's maintenance cost is the lowest it is going to be right now and that makes it a good time to put some weight on her rather than waiting to do it later."

Weaber advised producers to calculate the days to calving when figuring out the gain needed.

White gave an example: "If I have 100 days, I could target the cows to gain two pounds per day. That will give them about 200 pounds of gain."

The bottom line, White said, is to "do the math for your herd and then figure out if it is just a couple individuals that need to gain weight or the entire group, because that answer will drastically change the decision you make and what options are available."

Infrared Thermography May Help Mitigate Antimicrobial Use

Texas Tech University

Infrared technology has seen tremendous growth both in terms of its variety of uses and the accuracy of the technology in areas such as cybersecurity, medicine, and weather.

One of the most frequent uses is in thermography, or the use of infrared technology to determine the relative temperature of objects by detecting the amount of radiation being produced. Over the last year, the world has become very familiar with thermography even if many people didn't know the term. Every time a person's temperature was scanned on the forehead, that was an example of thermography.

CONTINUED ON PAGE 68



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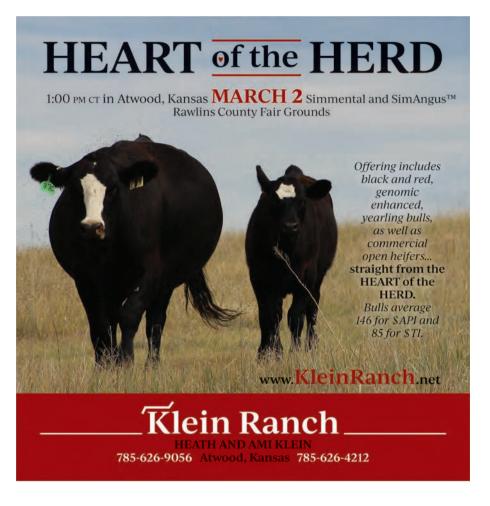
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Industry Update

CONTINUED

But thermography isn't limited to use on humans. A Texas Tech University researcher is hoping to take advantage of that technology to minimize the use of antimicrobials in beef cattle through targeted metaphylaxis, which is the use of antimicrobials to reduce the incidence of infectious disease in a group of animals.

Kristin Hales, an associate professor in the Department of Animal and Food Sciences in the College of Agricultural Sciences and Natural Resources (CASNR), is the principal investigator for a group that recently received a \$200,000 grant from the Foundation for Food & Agriculture Research for her project titled, "Development of a science-based management strategy to reduce the use of antimicrobials in high-risk beef cattle."

Joining Hales on the project are assistant professor Vinicius Machado in the Department of Veterinary Sciences and CASNR associate dean for research Christy Bratcher. "Infrared technology has not been evaluated as a real-time, chute-side management strategy to decrease antimicrobial use," Hales said. "If it can be validated, it could become widely adopted in the feedlot industry."

Hales is using thermography to develop a metaphylaxic method for beef cattle. Through her research, Hales aims to develop a method where cattle are individually identified and targeted for antimicrobial treatment upon arrival at the feedlot before becoming part of the herd. This targeting would be done based on the surface temperature of the cow's eye using infrared thermography.

CONTINUED ON PAGE 72





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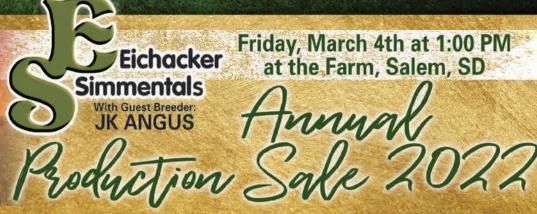
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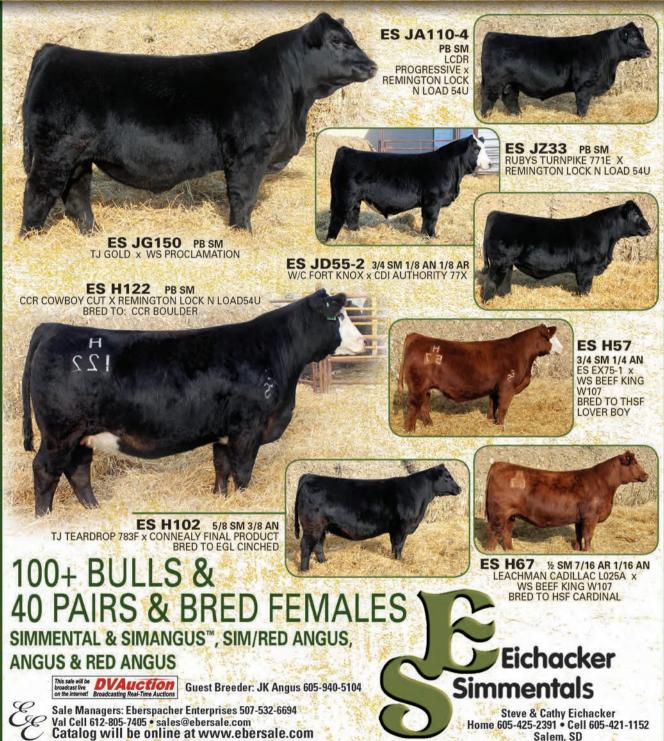
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The idea is to prevent otherwise healthy cattle from being administered an antimicrobial drug, which would therefore decrease antimicrobial use. Also, if noninvasive methods of body temperature collection, such as infrared thermography, can be validated and implemented, then targeted metaphylaxis could become widely adopted in the feedlot industry.

"Because most cattle considered high-risk for developing bovine respiratory disease are receiving metaphylaxis when they arrive at the feedlot, developing a science-based method to better identify cattle that are candidates for antimicrobial treatment could decrease the administration of antimicrobials to otherwise healthy cattle," Hales said.

Also, Hales said developing a targeted metaphylaxis strategy using infrared thermography could lead to the decrease of antimicrobials and the spread of antimicrobial-resistance in beef production systems throughout the worldwide food chain.

Researchers Seek Solutions to Feedlot Heart Disease

by John Maday, Bovine Veterinarian

Over 100 years ago, researchers at what is now Colorado State University began investigating a disease affecting cattle on the state's high-mountain ranches. The disease, which caused significant death loss, particularly in calves, was called "brisket disease" due to its association with swelling in the brisket area of affected cattle.

Aware of a genetic component, seedstock and cow-calf producers screen bulls and replacement heifers using pulmonary arterial pressure (PAP) tests prior to moving them to high-mountain ranches. Cattle with PAP scores above 49 mm Hg are considered at high risk for brisket disease at elevations higher than 7,000 feet.

In recent years though, researchers and veterinarians have noted increasing incidence of feedlot cattle dying from bovine congestive heart failure (BCHF) at moderate elevations across the western High Plains. BCHF involves pulmonary hypertension that culminates in right ventricular failure and eventually death.

CONTINUED ON PAGE 78





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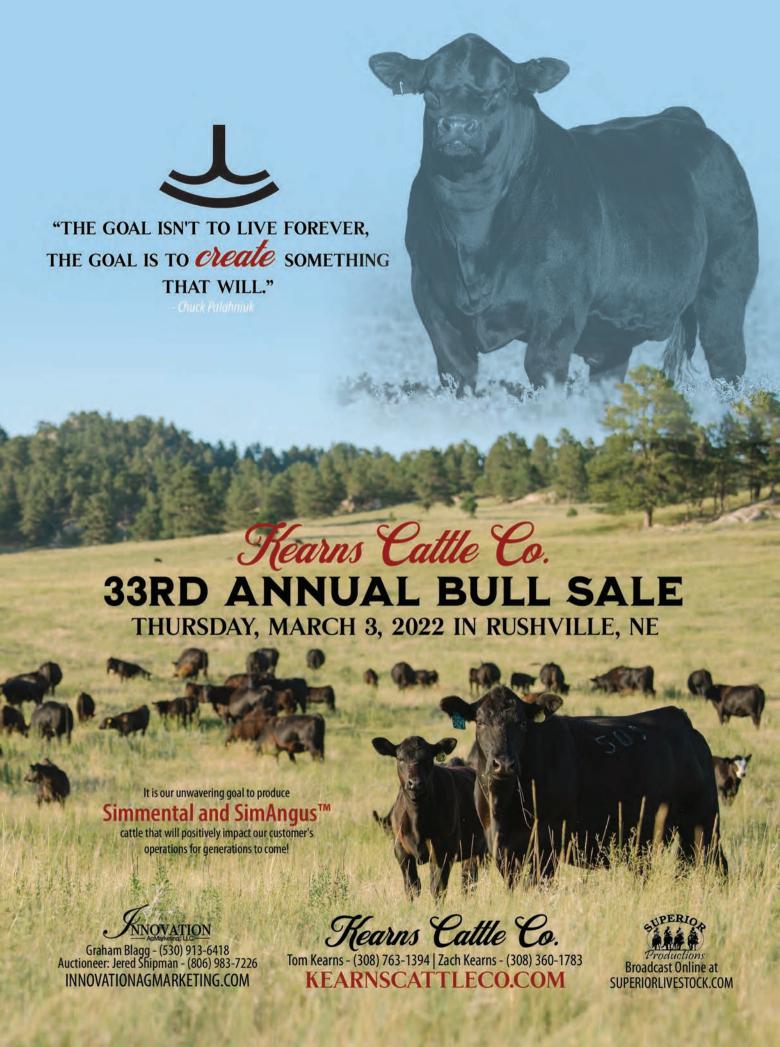


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The feedlot cases tend to occur in older, heavier animals, in contrast to cases on mountain ranches, which tend to occur in pre-weaned calves. Researchers suspect that a combination of factors, including genetics and management for rapid growth and heavy finished weights could contribute to the incidence of BPH in cattle at lower elevations.

Recently, a team of researchers from the USDA's Meat Animal Research Center (USMARC) in Clay Center, Nebraska, and University of Nebraska–Lincoln (UNL) have identified two major genes associated with bovine congestive heart failure in beef feedlot cattle. This study is the first to confirm genetic risk factors associated with BCHF.

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In this study, research led by Brian Vander Lev, DVM, PhD, with UNL's Great Plains Veterinary Education Center, and Michael Heaton, PhD, a research microbiologist at USMARC, collected samples of 102 cases of BCHF that developed in feedlots in western Nebraska and eastern Wyoming. Each case was matched with a pen mate of the same sex and coat color. DNA samples from the match pairs were used in a genome-wide association study. The study revealed 21 genomic regions highly associated with BCHF. Cattle with the top two risk factors together were 15 times more likely to become BCHF cases compared to cattle that did not have either of the top two risk factors.

Ultimately, genomic testing for risk-related markers could allow breeders and breed associations to select against susceptibility. Vander Ley points out, however, that in addition to the two key risk-associated genes, the study identified 19 others associated with at least a three-fold increase in BCHF risk. Provided future research validates these additional genetic risk factors, genetic selection against all of them will be a complicated, long-term effort.

Development of genetic risk assessments will also help researchers identify other, nongenetic risk factors associated with BCHF. Vander Ley hypothesizes that management and environmental factors will push cattle with genetic risk into clinical disease. Now that a tool to assess the genetic risk of cattle has been developed, identifying the differences that exist between individuals with genetic risk that become cases compared to the individuals that remain healthy will be possible. By first identifying cattle with genetic factors associated with high risk of BCHF,

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Vander Ley says researchers will be better able to measure the effects of non-genetic variables.

Quantifying these factors could lead to better overall management and reduce risk for BCHF, and potentially lead to management protocols tailored to animals based on their risk level. If manageable risk factors are identified, it may be possible to group cattle with high genetic risk and implement management strategies to limit development of clinical disease.

The researchers collaborated with scientists from MatMaCorp, a developer of diagnostic systems, enabling rapid development of a genetic test for use in selective breeding and animal health management. Sample collection and analysis took nearly two years, but with the genomic information in hand, the group moved quickly. "Working closely with MatMaCorp scientists, we developed our first targeted genetic test for BCHF in one week," notes Heaton in a news release. "Soon after, we began validating our results in newly identified BCHF cases, and subsequently we identified high- and low-risk calves in a crop of more than a thousand from a severely affected herd."

Global Food Prices Reached Ten-Year High in November

International food commodity prices rose for a fourth straight month in November to their highest level since 2011, the Food and Agriculture Organization's (FAO) food price index shows.

Meat prices fell 0.9% from October, however, posting their fourth consecutive monthly decline under pressure from reduced pork purchases by China, which weighed on international quotations, the United Nations agency said.

The overall index is 27.3% higher than its level in November 2020, averaging 134.4 points last month. Strong demand for wheat and dairy products drove the latest surge, pushing the index up 1.2% from October.

The FAO Meat Price Index also came under pressure from a sharp decline in ovine prices due to higher exportable supplies from Australia. Beef and poultry meat prices were largely stable. Still, meat prices are up 17.6% from a year ago, according to the index. In November, international quotes for pork fell for the fifth consecutive month due to reduced purchases by China, especially from the European Union.



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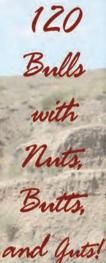


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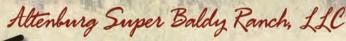
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2.2 172.6 SKORS Blackjack X MLC Mr. Justice [3950228] ~ PB SM ~ ADJ WW: 918 BW: 112



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5 3.6 102.7 151 .30 2 33.4 84.7 BCLR Manifesto X RF Red Absolute (3950237) ~ PB SM ~ ADJ WW: 859 ~ BW: 91



8.7 3.3 98 150 6.2 30 .32 SKORS Blackjack X LFE The Riddler (3950273) ~ PB SM ~ADJ WW: 836 ~ BW: 94



3.8 87.3 130.8 0.27 6.9 23.1 66.7 **Bounty Hunter X Cowboy Cut** 3944332 ~ PB SM ~ ADJ WW: 798 BW: 92

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13.6 0.2 89.7 130 .25 9.1 30.6 75.6 **WS Proclamation X CCF Vision** 3985537~ PB SM ~ ADJ WW: 903 ~ BW: 88

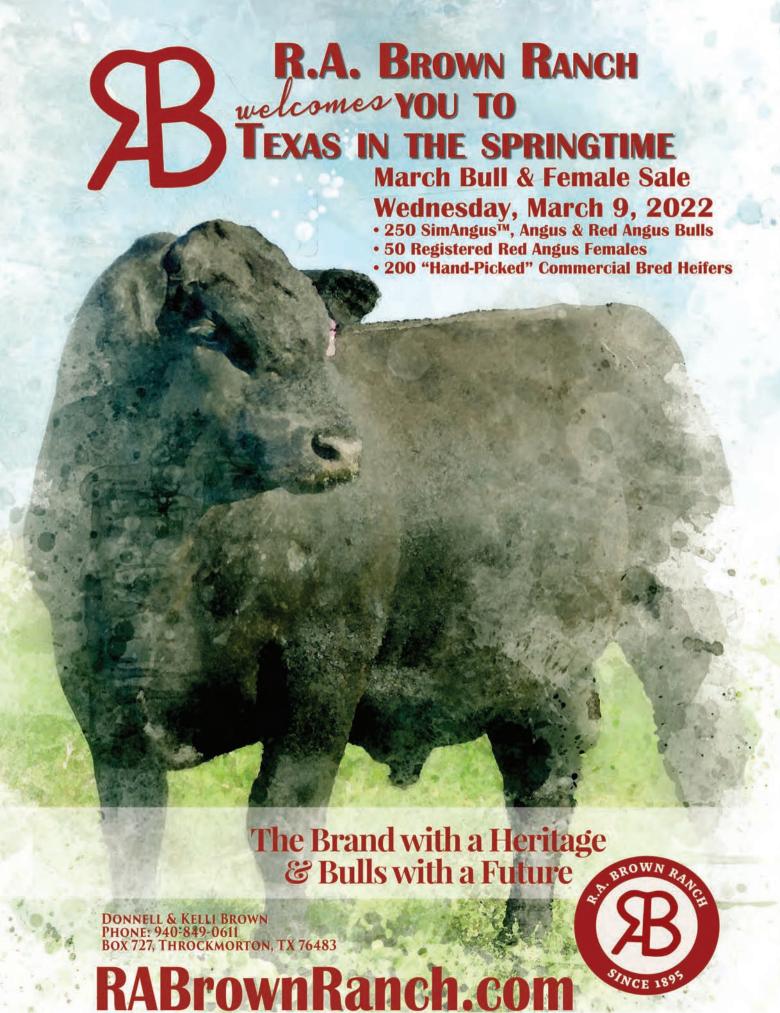


2 YR Old's for Sale!

9.3 1.5 59.4 86.2 0.17 4.8 26.6 56.3 Red Express X KWA Red Mountain 3944287~ PB SM ~ ADJ WW: 617 ~ BW: 75



8.9 2.0 86.2 131 .28 5 26.3 SVS Delta X MRL Bomber 3944268~ PB SM ~ ADJ WW: 771 ~ BW: 72



Meanwhile, international beef prices remained steady as decreased quotations for Brazil's meat were offset by higher Australian export values, reflecting low cattle sales for slaughter amid high herd rebuilding demand.

Poultry prices were also largely stable, as global supplies seemed adequate to meet demand despite supply constraints, especially shipping container shortages, and avian flu outbreaks in Europe and Asia, the FAO said.

Animal Health Companies Target Ways to Lower Antimicrobial Resistance

by Jennifer Shike, Bovine Veterinarian

Antimicrobial resistance is a "One Health" challenge that requires effort across both human and animal health sectors, said Patricia Turner, president of World Veterinary Association.

Developing 100 new vaccines by 2025 was one of 25 commitments made by the world's largest animal health companies in the Roadmap to Reducing the Need for Antibiotics report that was first published in 2019 by HealthforAnimals.

In the past two years, animal health companies have invested billions in veterinary research and

the development of 49 new vaccines as part of an industry-wide strategy to reduce the need for antibiotics, according to a recent progress report released in Belgium.

The recently developed vaccines offer increased protection against disease across many animal species including cattle, poultry, swine, and fish, as well as pets, the release said. It is a sign the industry is halfway to its vaccine target with four more years to go.

"New vaccines are essential to reducing the risk of drug resistance by preventing diseases in animals that could otherwise lead to antibiotic treatment, such as salmonella, bovine respiratory disease, and infectious bronchitis, and preserving vital medicines for both urgent human and animal use." HealthforAnimals said in a release.

The newest update shows the sector is on track or ahead of schedule across all of its commitments, including investing \$10 billion in research and development, and training more than 100,000 veterinarians in responsible antibiotic use.

"The new tools and training provided by the animal health sector will support veterinarians and producers to reduce the need for antimicrobials in animals, which better safeguards people and the environment.

CONTINUED ON PAGE 90





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There is a lot of hype out there about EPDs, Genomic Testing, and Carcass Traits. We strongly believe in the use of all of these genetic enhancement tools. We also know that you can ruin a good cowherd in a blink of an eye if you chase paper traits with no directive or focus put on the mother cow and what it takes to keep her in production with as few inputs as possible. There are breeding programs that only provide EPDs with no actual data. Be careful, at times these cattle might not offer a total package, the upkeep, loss of production, and lack of fertility may cost more than the rewards. Every breeder has the actual data, we believe that as a customer you deserve to access it, if it isn't there, ask for it. Any competent breeder shouldn't be afraid to share it. Raw data such as actual birth weights, 205 wts, 365 wts and performance data and indexes allows you to observe how an animal has performed within his contemporary group. It shows you his potential to sire calves that may increase or decrease certain traits. There are way too many cattle out there with excellent EPDs and dollar indexes that are not worthy of anything but a castrating knife. You can breed for all the highest EPDs and indexes in the world, but if you sacrifice COW EFFICIENCY, FOOT AND LEG STRUCTURE, FLESHING ABILITY, MENTAL, MATERNAL, and PHYSICAL TRAITS, such as UDDER QUALITY, along with an animal's ability to produce PAY WEIGHT and EYE APPEAL, all you will gain is a cull cow with good EPDs.







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Chris Bauerle

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"Since making the switch to Gold Bullion Group bulls, we have seen a massive improvement in the quality of heifers that we are keeping as replacements for our herd. On the steer production side, we know we can send our calves to the feed yard and with their genetics, know that they will perform at the highest standard. What gives us the most confidence is the families that stand behind their bulls."

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We congratulate the animal health sector for the progress achieved to date toward reaching their Roadmap targets," Turner said in a release.

Animal health companies are considering ways to expand and add to these targets in the years ahead to accelerate progress in reducing the burden on antibiotics, the report noted. "The Roadmap is unique across the health industries for setting measurable targets and regular status updates on our efforts to address antibiotic resistance," said Carel du Marchie Sarvaas, executive director of HealthforAnimals. "Few, if any, have set these types of traceable goals, and the progress to date shows how seriously animal health companies are taking our responsibility to tackle this collective challenge, which poses a threat to lives and livelihoods around the world."

The industry has also launched a series of other preventative products that contribute to lower levels of livestock disease, minimizing the need for antibiotics in animal agriculture, the release said.

Animal health companies created 17 new diagnostic tools out of a target of 20 to help veterinarians prevent, identify, and treat animal diseases earlier, as well as seven nutritional supplements that boost immune systems.

Comparatively, the sector brought three new antibiotics to market in the same period, reflecting the increased investment in developing products that prevent illness and the need for antibiotics in the first place, HealthforAnimals said.

In the past two years, the industry has trained more than 650,000 veterinary professionals and provided more than \$6.5 million in scholarships to veterinary students.

The Roadmap for Reducing the Need for Antibiotics not only sets targets to increase research and development, but it also is focused on One Health approaches, communications, veterinary training, and knowledge sharing. The next progress report is expected in 2023.

EU Proposes "Deforestation-Free" Standards for Beef Imports

The European Commission has proposed new rules for imports of several commodities, including beef, that aim to curb deforestation and raise environmental standards in Europe and globally.

The main driver of deforestation and forest degradation is the expansion of agricultural land, CONTINUED ON PAGE 94

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JANUARY 29, 2022

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FF Frontline J1556 5/8 Blood SimAngus™ Hook's Frontline 40F x EXAR Upshot 0562B CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 11 1.6 88 140 .32 7 27 71 .51 .81 149 89



FF Getcha Sum J1689 5/8 Blood SimAngus™ Felt Getcha Sum G113 x CLRS After Shock 604 A CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 5 24 71 .20 .79 124 84



Hook's Gratitude 71G x FF Jackhammer B412 CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 12 -.2 81 116 .22 6 25 66 .39 .69 140 84

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FF Pay Dirt J1985 5/8 Blood SimAngus™ CCR Pay Dirt 2340C x Felt Got Game

CE BW WW YW ADG MCE Milk MWW MB REA \$API \$TI 11 1.9 82 126 .27 6 33 74 .40 .62 135 83

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ASA# 3940069 Ellingson Dynasty J164 BW WW YW ADG MCE MM MWW \$API \$TI 4.2 98 155 .36 4 27 76 121 83 CF Adj. WW: 824 Adj. YW: 1,480

Ellingson Design J174 ASA# 3940079 BW WW YW ADG MCE MM MWW \$API \$TI 1.5 97 155 .36 6 31 Adj. WW: 821 Adj. YW: 1,538

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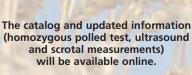
30 Open Yearling Heifers Sires include: WS All Aboard B80, CLRS Guardian 317G, SVS Captain Morgan 11Z, TJ Main Event 503B, W/C United 956Y, Ellingson Ultimate F830, RFS Bulletproof B42, LFE The Riddler 323B, Hook's Eagle 6E, Harvie Red Summit 54B, NGDB Structure 34D,



BW WW YW ADG MCE MM MWW \$API \$TI 3.8 107 161 .34 3 31 84 129 95 Adj. WW: 932 Adj. YW: 1,645



Ellingson Spartan J187 BW WW YW ADG MCE MM MWW \$API \$TI 2 98 153 .34 6 33 82 136 91 136 91 Adj. WW: 845 Adj. YW: 1,504





Ellingson Advance J190 ASA# 3940095 BW WW YW ADG MCE MM MWW \$API \$TI 4.1 102 157 .34 4 29 80 137 89 Adj. WW: 845 Adj. YW: 1,266



Ellingson Anchor J192 ASA# 3940097 CE BW WW YW ADG MCE MM MWW \$API \$TI 6.1 100 149 .30 2 23 73 85 70 Adj. WW: 838 Adj. YW: 1,345

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which is linked to the production of commodities such as soy, beef, palm oil, wood, cocoa, and coffee that are imported into Europe, the commission said in a press release. As a consumer of these commodities, the EU is partly responsible for this problem, it said.

The regulation would set mandatory due diligence rules for companies that want to place these commodities on the EU market. Geographic coordinates would be collected for the land where the commodities are produced, and a benchmarking system would evaluate countries and their level of risk of deforestation and forest degradation for the products in the scope of the regulation.

By promoting the consumption of "deforestation-free" products, the new rules are expected to reduce greenhouse gas emissions and biodiversity loss. The commission also said it will step up dialogue with other big consumer countries to join efforts.

"If we expect more ambitious climate and environmental policies from partners, we should stop exporting pollution and supporting deforestation ourselves," said Virginijus Sinkevičius, EU commissioner for the environment, oceans, and fisheries.

The regulation will guarantee that domestic and imported commodities are measured by the same standards, and there will be no ban of any country or any commodity, according to the commission. Sustainable producers will continue to be able to sell their goods to the EU.

The commission is also proposing to help partner countries improve forest governance and create socio-economic opportunities for the populations through sustainable value chains. Between 1990 and 2020, the world lost 420 million hectares of forest, an area larger than the European Union, the commission said.

US Beef Production to Affect Global Outlook in 2022

An expected decline in US beef production next year is likely to play a key role in tightening global supplies in 2022, predicts a new report from Rabobank.

Depopulation of US cattle in response to the economy and liquidations related to drought conditions in the western part of the country will lead to a 2.5%

CONTINUED ON PAGE 98





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Schooley Genesis R233 | ASA 3969284 Genesis x 972G | Purebred | DOB: 3/9/21



78J | ASA 3908608 Favor x 30G | Purebred | DOB: 1/28/21

Schooley Miss 505 003H | ASA 3752607 Epic x Pays to Believe | Purebred DOB: 2/3/20 | Due 3/12/22 w/ Revolution Bull

Schooley Lass 004H | ASA 3752779

Favor x Saugahatchee | Halfblood DOB: 3/9/20 | Due 2/17/22 w/ Standout Heifer



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287J | ASA 3908604 Guarantee x 8149 | Angus | DOB: 1/27/21



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	Date	Ranch/Sale	City	Phone
	January 14, 2022	Diamond Bar S	Great Falls	406-467-3303
	February 2, 2022	Begger's Diamond V Ranch Genetic Source Bull Sale	Wibaux	406-796-2326
	February 7, 2022	Gateway Simmental Breeding Value Bull Sale	Lewistown	406-538-9695
	February 8, 2022	Edge of the West Sale	Mandan	701-453-3105
	February 10, 2022	Lassle Ranch Simmental – Annual Bull Sale	Glendive	406-486-5584
	February 14, 2022	Nelson Livestock Company Annual Production Sale	Wibaux	406-588-3371
	February 21, 2022	Bulls of the Big Sky Bull Sale	Billings	208-267-2668
	February 26, 2022	Emmons Ranch	Olive	406-436-2277
	March 1, 2022	Hill's Ranch Production Sale	Stanford	406-566-2479
	March 18, 2022	Black Summit Cattle	Powell, WY	307-899-3553
	May 5, 2022	Nelson Ranch Production Auction	Glasgow	406-367-5261
	Private Treaty	Walking 5	Broadview	406-667-2251
	Private Treaty	99 Bar Cattle	Alzada	605-101-1280
	Private Treaty	3 JM Simmental	Payette, ID	208-731-6646
	Private Treaty	AOK Simmental	Havre	406-945-8222
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	Private Treaty	Little Bitterroot Ranch	Hot Springs	406-741-2523
	Private Treaty	3H Simmental	Plains	406-826-3765
	Private Treaty	Wichman Ranch Feeder Calves	Moore	406-350-0127
	Private Treaty	Maloney Angus & Simmental	Turner	406-654-7115
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	Private Treaty	Rocking L 4 Ranch	Bonners Ferry, ID	208-691-6656
	December 3, 2022	Western Choice Simmental Sale	Billings	208-267-2668

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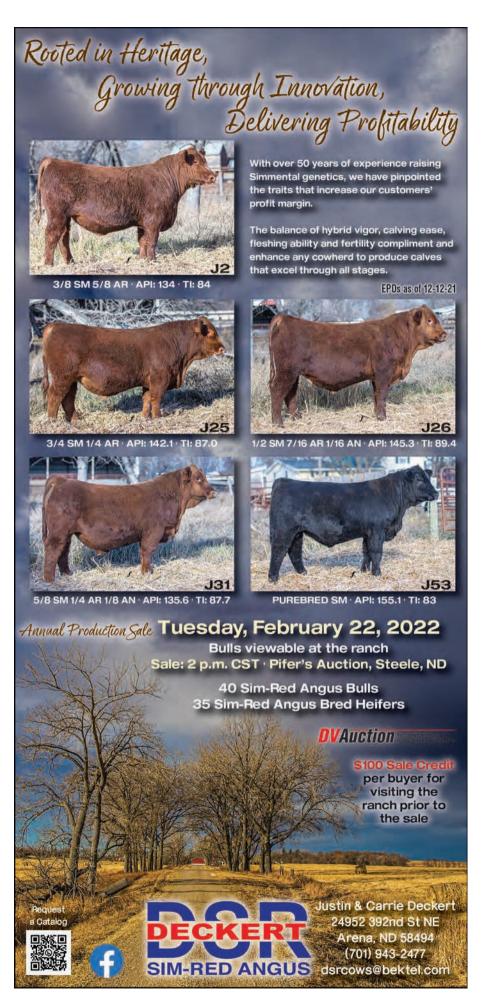
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CONTINUED

decline in US beef production next year, just as the global demand for beef continues to rise, the study said. Canada, Japan, Mexico, and South Korea remain strong markets for US beef. Meanwhile, China is increasing its beef imports and driving higher US export volume that could rise by as much as 4% next year, according to Rabobank analysts.

The report also noted that continued strength in US consumer demand for beef in 2022 could lead to an opportunity for beef imports to increase. Despite objections to imports of beef from Brazil, that country stands to especially benefit from the trend; Brazil shipped 61% more beef to US markets in the first nine months of 2021 than one year ago, the report added.

Rabobank also noted it expects the uptick in US cow slaughter to continue and the decline in production to remain in place until 2023 or beyond.

Increased Prices and Decreased Availability of Herbicides Impact Producers

Kansas State University Extension

A Kansas State University weed management specialist says increased prices and decreased availability of herbicides may force farmers into finding alternative ways of managing weeds in their fields.

"Producers have got some tough decisions to make this winter as they think about how they're going to manage things coming into the spring," said Kansas State's Sarah Lancaster.

She added that "significant shortages" of glyphosate and glufosinate are anticipated in 2022. "Some of the distributors

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that I've talked with actually are talking about the situation not being cleared up by 2023," Lancaster said.

Lancaster said those forces will require changing how business is done without herbicides. She said it may be a good test run if — down the road — herbicide resistance prevents the post-emergence herbicides from working.

In the meantime, Lancaster urges producers to consider implementing practices to make sure that the herbicides being used are effective. They include: check equipment every day before spraying, including nozzles; adjust the speed of the vehicle you are driving while spraying. "When you drop the driving speed, you're allowing more of your herbicide to hit the intended target," Lancaster said; and add water to increase thespray volume of the herbicide.

"As we think about ways to take the pressure off the post-emergence products, having a solid pre-emergence herbicide program is important," Lancaster said. "That includes multiple effective modes of action, especially for things like pigweeds, but also for other weeds that have kind of slipped through the cracks the last few years."

In addition, Lancaster said optimizing planting dates, optimizing seeding rates, seeding depth, and fertility may help give the crop a competitive edge over weeds. Non-chemical weed management practices — such as weed electrocution, a method in which weeds are shocked with thousands of volts of electricity — may also be worth considering, she said.

Coalition Launches Research to Limit Cattle Methane Emissions

In the wake of the recent global climate change summit, an industry group plans to spend \$5 million to determine strategies to reduce methane emissions from cattle, a major source of agriculturally sourced greenhouse gases.



The Greener Cattle Initiative will award grants over the next five years to support specific efforts to mitigate methane emissions, an issue the organization says is not currently being addressed by programs to improve sustainability of livestock production. The research is expected to involve such areas as feed additives or supplements that inhibit methane emissions. genetic selection of cattle that emit less methane, and even robotics or other technology to better monitor emissions on farms, the group said in a news release. The stakeholders aim to accelerate the development of scalable and commercially feasible processes to enable production of sustainable beef and dairy.

Participating members of the initiative include the Foundation for Food & Agricultural Research (FFAR), Archer Daniels Midland, the Council on Dairy Cattle Breeding, and Nestle, among others, with each committing at least \$200,000 to fund the inaugural program, FFAR added.

Farmland Price Explodes

For the past 12 months, Creighton University's Rural Mainstreet Index (RMI) has remained substantially above growth neutral. For November 2021, the RMI rose to 67.7 from October's level of 66.1. The index ranges between 0 and 100 with a reading of 50 representing growth neutral and is generated by a monthly survey of bank CEOs in rural areas of a ten-state region dependent on agriculture and/or energy.

"Solid grain prices, the Federal Reserve's record-low interest rates, and growing exports have underpinned the Rural Mainstreet Economy,"

CONTINUED ON PAGE 106

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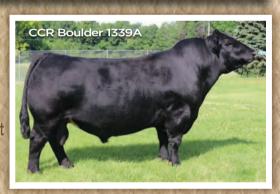
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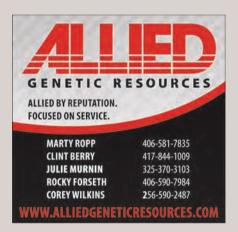
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INDUSTRY UPDATE

said Ernie Goss, who is the chair of Creighton's Heider College of Business and leads the RMI. "USDA data show that 2021 year-todate agriculture exports are more than 23% above that for the same period of 2020. This has been a significant factor supporting the Rural Mainstreet economy."

For the entire year of 2021, the RMI has averaged 65.7. The region's farmland price index improved to a very strong — and record — high of 85.5 from October's 81.5 October's reading represented the 15th straight month that the index has moved above growth neutral. For 2021, the farmland price index averaged 74.6.

Here are the state-by-state farmland price indexes for October: Colorado: 83.6, up from 82; Illinois: 85.5, up from 82.8; Iowa: 84.9, up from 81.9; Kansas: 83.6, up from 80.1; Minnesota: 87.2, up from 83.7; Missouri: 81.5 up from 77; Nebraska: 85.4 down from 87.3; North Dakota: 82.7, up from 80.1; South Dakota: 84.2, up from 82.2; and Wyoming: 83.2, up from 80.6.

The November farm equipment-sales index slipped to a strong 62.1 from 64.8 for the same period. Readings for farmland prices and equipment sales over the last several months represent the strongest consistent growth since 2012. The new hiring index dropped to a still-robust 67.7 from 71.4, while labor shortages continue to be a significant issue for Rural Mainstreet businesses. Despite recent strong job gains, US Bureau of Labor Statistics data indicate that, compared to pre-COVID-19 levels, Rural Mainstreet has lost 2.5% of its non-farm employment (non-seasonally adjusted). The confidence index, which reflects bank CEO expectations for the economy six months out, sank for the fifth straight month to 48.4, its lowest level since August of last year and down from October's 51.8. The RMI, which started in 2005, represents an early snapshot of the economy of rural agricultural and energy-dependent portions of the nation. It focuses on 200 rural communities with an average population of 1,300 people.

Rumens Might Hold the Keys to Plastic Recycling

by Maureen Hanson, Bovine Veterinarian

The rumen is well-recognized in the dairy and beef industries as the digestive superstation that amazingly transforms feedstuffs that humans can't digest into highly nutritious meat and dairy products that provide essential amino acids that can't be sourced from plants.

Now, the rumen may be taking center stage in digesting another global challenge: plastics.

Since the 1950s, eight billion tons of plastic have been produced worldwide. Plastic pervades our daily lives in everything from automobile parts to water bottles, and stock tanks to calf bottles. But its versatility and durability also make plastic a challenging substance to recycle.

Enter the rumen, Mother Nature's original tough-material-breakdown machine. Austrian researcher Doris Ribitsch and her team at the University of Natural Resources and Life Sciences in Vienna theorized that because the rumen is so efficient at disassembling tough plant materials, it may have the same effect on plastic. In fact, some feedstuffs contain a natural plant polyester (cutin) whose chemical structure is not far off from some synthetic polyesters.

CONTINUED ON PAGE 110

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Progeny Data:

Fort Pierre, SD Livestock Auction 11/3 and 11/5, 2021 Total Steers: 7241, Average weight of 561 lbs Brink Fleckvieh Sired Steers: 127, Average weight of 617 lbs

Tayler Assman, SD — outstanding Brink Fleckvieh client, also reports his 127 head of steers had no implants or creep. Thank you.

23% Yield Grade 3, 2% Yield Grade 4

Average weight- 1,393 lbs, 62.43 - Yield 25.3% Prime, 70% Choice, 75% Yield Grade 2 White Heart Ranch, ND, has been purchasing Brink Fleckvieh bulls since 2007. Thank you.

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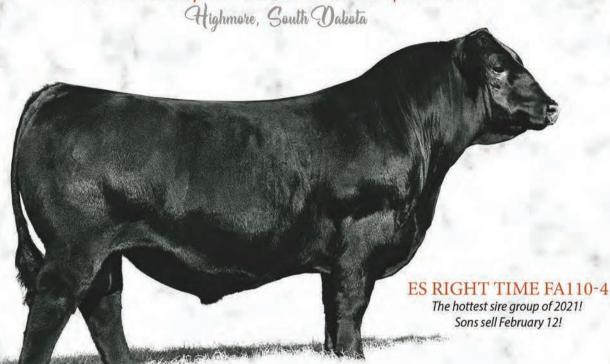
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INDUSTRY UPDATE

The researchers gathered rumen fluid from a slaughterhouse in Austria, and incubated it with three types of synthetic polyesters, all in both film and powder form.

They found all three plastics were broken down by the rumen microbes in the lab setting, with the powdered plastics digesting more quickly than the film varieties. The next step they are pursuing is to identify which of the thousands of rumen microbes present in the rumen fluid — and the enzymes produced by them — were responsible for breaking down the plastic.

In their peer-reviewed summary of the research, published in the journal *Frontiers in Bioengineering and Biotechnology*, the team noted it appears there is not just a single enzyme, but rather a number of them working in concert, that achieved degradation.

Once identified, Ribitsch said the key enzymes can be replicated and manufactured, similar to the way silage inoculant ingredients are produced today. It also may be possible to genetically modify them to make the enzyme blend even more potent.

According to an article in *The Guardian*, using enzymes at recycling plants would be classified as a form of green chemical recycling. Another potential recycling angle: harvesting the microbes directly from the rumen.

"One cow typically produces a rumen volume of about 100 litres (25 gallons)," noted Ribitsch. "You can imagine the huge amount of rumen liquid accumulating in slaughterhouses every day — and it's only waste."

Scientists Identify Proteins in Bacteria Associated with BRD

USDA Animal Research Service

Poor health, viruses, and environmental stress can leave young calves susceptible to secondary bacterial infections that cause bovine respiratory disease (BRD). These severe infections commonly result in pneumonia, and treatments can be costly.

To identify unique proteins that can be used for future interventions against this disease in cattle, scientists at the United States Department of Agriculture (USDA) Agricultural Research Service (ARS) took a closer look at the genetic material of multiple subtypes (strains) of three groups of bacterial species commonly implicated with BRD.

In a study recently published in Genome, US Meat Animal Research Center microbiologist Emily Wynn and molecular biologist Mike Clawson examined DNA sequences from bacteria commonly

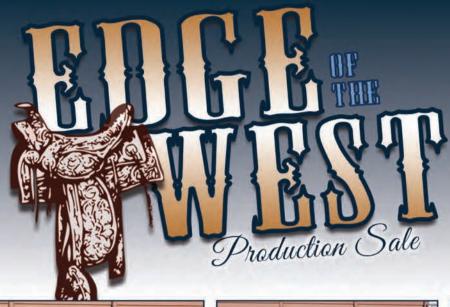
CONTINUED ON PAGE 114

POWERLINE
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Upcoming 2022 Sale Dates
Arapahoe 1 Sale, January 18th - Arapahoe, NE
PLG PAP Tested Bull Sale, March 5th - Castle Dale, UT
Arapahoe 2 Sale, March 15th - Arapahoe, NE
PLG/Seward Cattle Co. Bull Sale, May 5th - Lonetree, WY

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Sire: Hooks Xpectation Low Birthweight Purebred Simmental



Sire: MRL Capone Outcross Red Purebred Simmental



Thanks to Gilliland Ranch, CA for their purchase of KR Miss Halsey H15 from the ND Classic Sale!



Sire: BCLR Panda Homozygous Black & Polled Purebred Simmental



Sire: Kinns Mega Wide Homozygous Black & Polled 3/4 Blood SimAngus™



Thanks to Ethan Staigle, ND, for his purchase of SRF Miss 042H from the ND Classic Sale!



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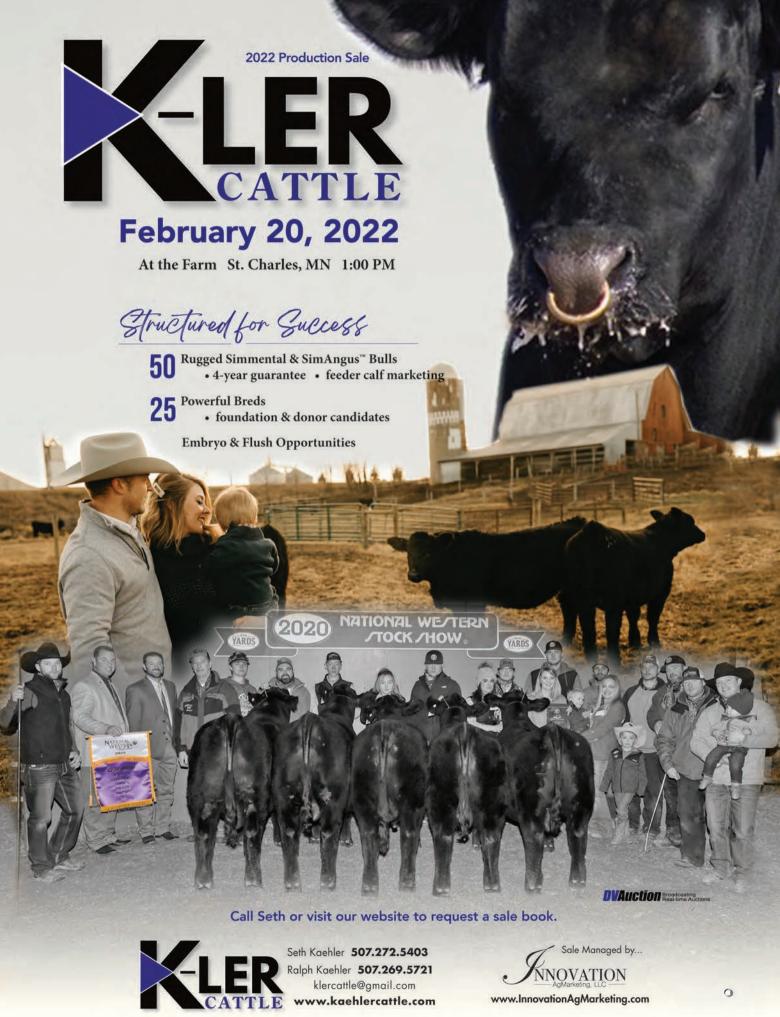
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 - Semen \$30/unit



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INDUSTRY UPDATE

found in cattle exhibiting signs of BRD. These bacteria are known as H. somni and P. multocida and M. haemolytica, which has a variable genotype (strain types). The scientists have sorted the variable genotypes of M. haemolytica into two strain types (type 1 and 2).

It is not uncommon to find all three groups of bacteria living in the upper respiratory tract of cattle with no signs of BRD, along with communities of "good" bacteria. When calves' immune systems becomes weakened by viruses or due to stress caused by environmental factors (such as weaning, transportation, poor ventilation, etc.), these three bacteria (H. somni, P. multocida, and type 2 M. haemolytica) multiply in the upper respiratory tract and invade the lungs, where they cause disease.

But this multiplication in calves with weakened immune systems does not happen as frequently with type 1 M. haemolytica. Therefore, it was important for the scientists to compare gene content across the three groups of disease-causing bacteria and identify differences among the groups and the more benign strain type 1 M. haemolytica.

Scientists focused on the differences in the proteins existing in the outer membrane of each of the bacterial groups, as these outer membrane proteins can be very important for either bacterial survival or its recognition and targeting by the host's (calf's) immune system.

"Part of our research aims to use very high precision in targeting unique proteins, or antigens, in the outer membrane of the BRD-causing bacteria. These antigens induce an immune response and can protect the animal. We anticipate these proteins can be used in future preventative measures without disrupting other 'good' microorganisms coexisting within the same environment or hos,." said Wynn. "One of the most exciting discoveries in this study was to find the outer membrane protein W, or OmpW, in all three harmful bacteria but not in the type 1 M. haemolytica. We look forward to investigating that further."

Wynn and Clawson found other proteins present in the outer membrane of all these groups of bacteria, giving them additional preventative targets, too.

Insights from this study open doors for the use of antibody recognition of outer membrane proteins to develop preventive strategies against bacteria that cause BRD. The scientists plan to expand their study with larger populations of BRD-associated bacteria, and to use the same approach to specifically target additional disease-causing bacteria.



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ASA# 3948617 BD: 2/6/21 Adj. 205 WT: 909 lbs. • WWR: 108 Sire: Springcreek Denali 21E Dam: DCR Ms Admiral C324 BW WW YW Milk 5.6 97 147 36 MWW \$API \$TI 84 125 83



DCR Mr G110 Galaxy J67

ASA# 3948640BD: 2/2/21
Adj. 205 WT: 849 lbs. • WWR: 101
Sire: DCR Mr Galaxy Red G110

BW WW YW Milk 1.3 91 137 33 MWW \$API \$TI 78 147 90



DCR Mr Jungle King J169

ASA# 3948595 BD:2/21/21 Adj. 205 WT: 866 lbs. • WWR: 103 Sire: KS Vanderbilt G220 Dam: DCR Ms Moonshine D417

BW WW YW Milk 2.2 95 146 29 MWW \$API \$TI 76 148 94



DCR Mr Journeyman J315

ASA# 3948556 BD: 3/7/21

Adj. 205 WT: 1,005 lbs WWR: 120 Sire: DCR Mr Gizzmo Red G380 Dam: DCR Ms Red Ticket E453 BW WW YW Milk 4.5 109 162 33 MWW \$API \$TI 87 123 90



DCR Mr Jester J63

ASA# 3948488

BD: 2/6/21 Adj. 205 WT: 952 lbs. • WWR: 112 Sire: Hook's Black Hawk 50B Dam: DCR Ms Everglade G130

BW WW YW Milk 1.4 100 152 26 MWW \$API \$TI 76 144 92



DCR Mr Jericho J108

ASA# 3948531 BD: 2/11/21 Adj. 205 WT: 867 lbs. • WWR: 103 Sire: Springcreek Denali 21E Dam: DCR Ms Rollin Coal F210

BW WW YW Milk 4.5 92 138 35 MWW \$API \$TI 81 126 83



DCR Mr Resource J235

ASA# 3948491

BD: 2/28/21 Adj. 205 WT: 893 lbs. • WWR: 105 Sire: Bridle Bit Resource G9117 Dam: DCR Ms Denali G96

BW WW YW Milk 3.7 92 141 32 MWW \$API \$TI 77 139 88



DCR Mr Vanderbilt J392

ASA# 3948539 BD: 3/12/21

Adj. 205 WT: 881 lbs. • WWR: 105 Sire: KS Vanderbilt G220 Dam: DCR Ms Wide Load F124

BW WW YW Milk 3.2 101 152 24 MWW \$API \$TI 74 139 92

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42nd Annual Production Sale Tuesday, March 1, 2022

I:30 p.m. CST Kist Livestock, Mandan, ND

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65 Spring Simmental Bulls 100 Spring Charolais Bulls 5 Open Simmental Heifers 5 Open Charolais Heifers

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

40th Annual Production Sale

Saturday, February 5, 2022

Gelling: 51 Yearling Simmental & SimAngus™ Bulls **14** Bred Registered Heifers

11 Open Registered Heifers

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

Auctioneer: **Dustin Carter**



KSR BIG MO 572J

Black 5/8 SM 3/8 AN Polled • 2/23/21 • 95 lbs • 839 lbs CCR COWBOY CUT 5048Z x S A V FINAL ANSWER 0035 CE BW WW YW MCE MM MW CW YG MB 11.4 2.4 97.5 142.4 7.9 25.7 74.4 35.5 -0.20 0.33



KSR IDAHO 15J

Black PB SM Polled • 2/25/21 • 81 lbs • 757 lbs RBS BOISE B63 x RUBYS TURNPIKE 771E BW WW YW MCE MM MW CW YG 5.2 2.2 84.9 122.6 0.5 28.1 70.5 32.4 -0.56 0.00



KSR RED KING 435J

Red PB SM Polled • 2/25/21 • 91 lbs • 672 lbs KLSR RED NATION C545 x WS SOLOMAN X186 BW WW YW MCE MM MW CW YG MB 8.9 2.2 80.3 109.4 4.3 22.9 63.0 24.8 -0.41 0.06



KSR MCLINTOCK 548J

Black PB SM Polled • 2/27/21 • 93 lbs • 777 lbs KRJ DAKOTA OUTLAW G974 x KOCH LC MONTE 803U CE BW WW YW MCE MM MW CW YG MB 5.3 4.9 96.8 151.1 2.5 24.4 72.8 35.0 -0.56 0.04



KSR HICKOK 596J

Black 3/4 SM 1/4 AN Polled • 2/26/21 • 88 lbs • 772 lbs KRJ DAKOTA OUTLAW G974 x S A V FINAL ANSWER 0035 CE BW WW YW MCE MM MW CW YG MB 8.2 2.6 95.7 148.4 1.4 26.3 74.2 31.4 -0.38 0.17



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EPD as of 12-21-21

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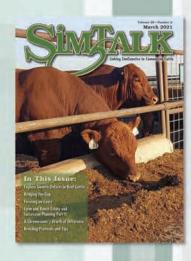
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I am a member of the American Simmental Association	Yes No

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	Sales Close	Ad Materials	Camera Ready	Mail Date
March 2022	Jan 21	Jan 28	Feb 10	Feb 24
Breeder Directory 2022	May 2	May 10	May 24	June 14
Early Fall 2022	July 22	July 29	Aug 12	Aug 30
Late Fall 2022	Sept 19	Sept 23	Oct 7	Oct 25
January 2023	Dec 2	Dec 9	Dec 16	Jan 13





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Saturday, January 29, 2022 | 12:30 pm

West Point Livestock, West Point, Nebraska



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1/2 SM Colburn Primo x T85 Donor



1/2 SM TJ Fat Iron x Discovery



5/8 SM Hooks Eagle x SP Answer



PB SM Dreamboat x Fully Loaded



1/2 SM Barstow Bankroll x Royal Affair



1/2 SM Colburn Primo x T85 Donor



5/8 SM TJ Franchise x Jack Around



1/2 SM Werner Flat Top x J&C Winner B043

120 Black Simmental bulls (some reds)

30 Open Heifers Show prospects broke to lead. Top replacement heifers.

20 Bred Heifers Al bred to trait leading calving ease bulls



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EPDs as of 12/15/2021

55 Red & Black Simmental Bulls

24TH ANNUAL PRODUCTION SALE
WEDNESDAY FEBRUARY 9TH, 2022 - 1PM

SALE LOCATION >>> CB SALE FACILITY 4 miles south of our ranch on 76th Ave, SE.



WS 12J:: KRJ HZN DIRECT IMPACT F805 EPDs; CE: 15.3 BW; -0.5 WW; 92.3 YW; 139.1 MCE: 7.5 Milk: 28.9 MWW; 75 CW: 44.4 YG: -42 Marb: .46 BF: -.07 REA: 1.26 API: 173 TI: 99 // ASA #: 3912031



WS 9J :: WS PROCLAMATION E202 EPDs: CE: 12.7 BW: -1 WW: 95.4 YW: 143.3 MCE: 8.5 Milk: 35.8 MWW: 83.4 CW: 47.2 YG: -.33 Marb: .42 BF: -.07 REA: .99 API: 156 TI: 98 // ASA #: 3911994



WS 51J :: RFS BULLETPROOF B42 EPDs: CE: 7.4 BW: 3.6 WW: 103.9 YW: 162.5 MCE: 5.3 Milk: 31.1 MWW: 83 CW: 59.1 YG: -.4 Marb: .25 BF: -.08 REA: 1.25 API: 145 TI: 95 // ASA #: 3911843



WS 35J:: HOOK'S GIBRALTAR 4G EPDs: CE: 14.7 BW: 0.2 WW: 84.5 YW: 128.8 MCE: 9 Milk: 31.9 MWW: 74.1 CW: 40.6 YG: -.25 Marb: .47 BF: -.042 REA: .85 API: 154 TI: 93 // ASA #: 3911933



WS 46J :: CDI DOWNTOWN 400D EPDs: CE: 5.3 BW: 4.6 WW: 101.2 YW: 152.2 MCE: 3.1 Milk: 28.7 MWW: 79.2 CW: 45.9 YG: -.35 Marb: .67 BF: -.068 REA: 1.04 API: 149 TI: 97 // ASA #; 3912001



WS 48J :: HOOK'S FULL FIGURES 11F EPDs: CE: 14.8 BW: -1.6 WW: 77.7 YW: 123.9 MCE: 8.3 Milk: 29.1 MWW: 67.9 CW: 40.5 YG: -,39 Marb: .57 BF: -.05 REA: .123 API: 171 TI: 94 // ASA #: 3911952

Stay updated on sale pictures, videos and other information by visiting our website!

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HSF Conquest 29Z x Red Quorum Sept '20 3/4 SM 1/4 AR · Non-dilute Red · Homo Polled



IR Imperial x ER Big Sky Sept'20 Purebred Simmental · Non-dilute Red · Homo Polled



GW-WBF Substance x SAV Final Answer Sept '20 5/8 SM 3/8 AN ET · Homo Black · Homo Polled



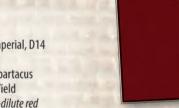
Hooks Shear Force x Ellingson Legacy Sept'20 Purebred Simmental ET · Black test pending · Homo Polled



Hooks Encore x SAV Final Answer Sept '20 3/4 SM 1/4 AN · Hetero Black · Homo Polled

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Option 2 - \$400

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For more information contact:

Nancy at nchesterfield@simmgene.com or Rebecca at rprice@simmgene.com

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BLACK SIMMENTATS

Tuesday, February 1, 2022 2:00pm CT • Kist Livestock • Mandan, ND



TJ Cowboy Up 529B x Mr 23Y

BD: 2-24-21 BW: 94 WW: 884

CE BW WW YW MCE Milk MWW API T



Oval F All Time A322 x Kappes Lucky Man W603 BD; 2-11-21 BW; 91 WW; 786 CE BW WW YW MCE Milk MWW API TI 9.8 2.0 78.0 118 8.3 32.4 71.4 129 75



MRL Discovery 21A x Connealy Right Answer 746

BD: 2-9-21 BW: 83 WW: 758

CE BW WW YW MCE Milk MWW API TI



BCLR Cash Flow C820 x Triple C Bettis S72J
BD: 2-2-21 BW: 84 WW: 848
CE BW WW YW MCE Milk MWW API T
12.3 1.7 95.4 144 5.7 11.6 59.2 148 8



BCLR Cash Flow C820 x GW-WBF Substance 820Y
BD: 2-20-21 BW: 69 WW: 782
CE BW WW YW MCE Milk MWW API TI
10.0 2.4 93.3 143 5.5 10.1 56.7 148 87

Planned Mating EPD

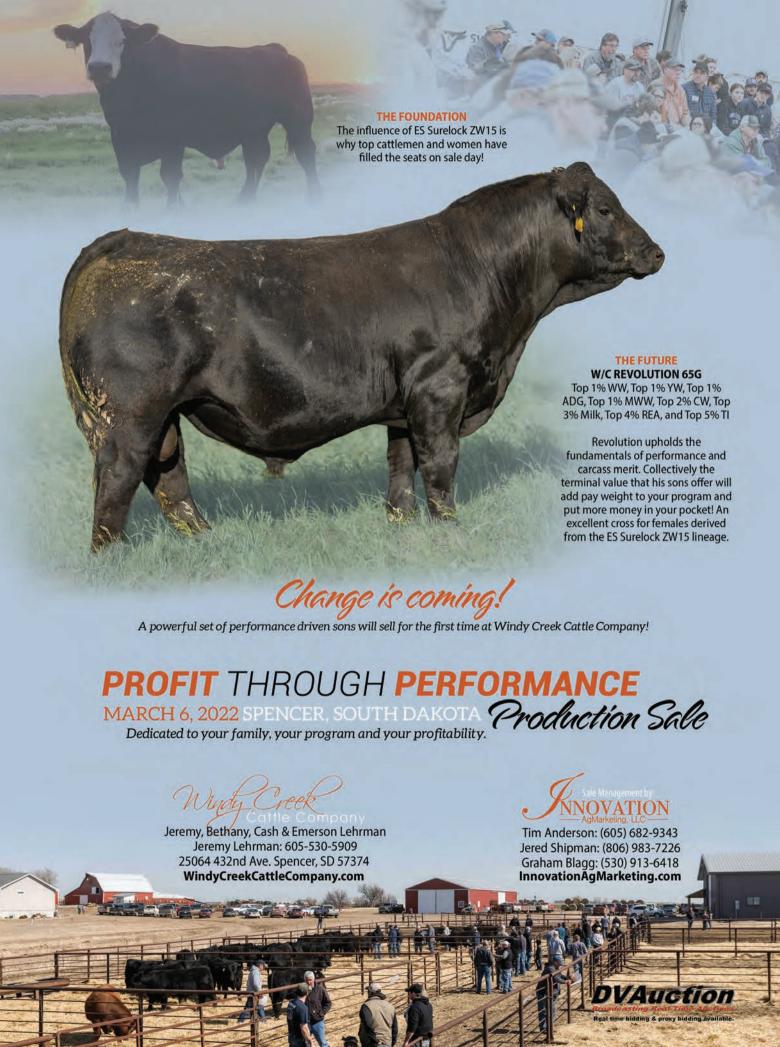
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(Continued on page 130)

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ASA 3952112 • CE 11 • WW 91 • YW 141 • API 133 • TI 82



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ASA 3952082 • CE 13 • WW 79 • YW 117 • API 141 • TI 80



PB SM • J15 • S: Erixon Bitten • MGS: Grandmaster BW • WW 807 • Homo Black • Homo Polled

PB SM • J354 • S: SAS Copperhead • MGS: All Aboard BW 86 • WW 891 • Red • Homo Polled

ASA 3952104 • CE 13 • WW 89 • YW 132 • API 143 • TI 84



PB SM • J274 • S: Patriot • MGS: Bitten
BW 82 • WW 823 • Homo Black • Homo Polled

ASA 3952092 • CE 11 • WW 96 • YW 133 • API 148 • TI 94



PB SM • J909 • S: Proclamation • MGS: Night Watch BW 82 • WW 862 • Hetero Black • Homo Polled

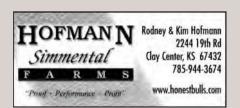
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(Continued from page 128)





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> J&C Annual Bull Sale – January 29, 2022

> > (Continued on page 132)



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direct from eow country in western, Nebraksa

State Marketplace

(Continued from page 130)

Nebraska cont.



JD Anderson

Arapahoe, NE 308-962-6146



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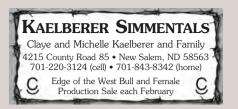
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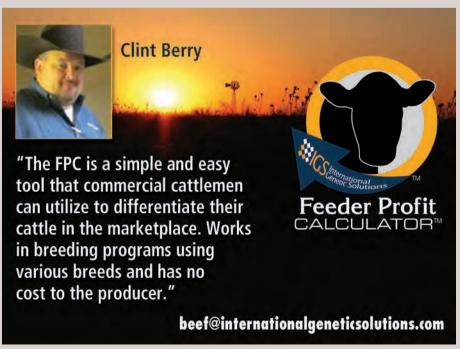












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(Continued from page 132)

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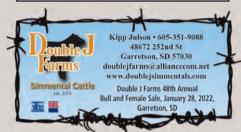
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ALENDAR

JANUARY 2022

- 14 Diamond Bar S Bull Sale Great Falls, MT (pg. 97)
- Baxley Family Farms Annual Cattle Sale Georgetown, SC (pg. 6)
- The One Simmental Sale and SimMagic On Ice Denver, CO
- Powerline Genetics Arapahoe 1 Sale, Arapahoe, NE (pg. 110)
- 19 Lazy C Diamond Ranch's Online Embryo Sale — www.sconlinesales.com
- Double J Farms' 48th Annual Bull Sale Garretson, SD (pgs. 99, 134)
- 28 Drake Bull and Female Sale — Centerville, IA (pg. 143)
- Ellingson Simmentals' Annual Production Sale Dahlen, ND (pgs. 93, 114, 132)
- 29 Cowtown Classic Simmental Sale — Fort Worth, TX
- 29 Forster Farms' 43rd Annual Production Sale — Smithfield, NE (pg. 91)
- 29 J&C Simmentals' Annual Bull Sale - West Point, NE (pgs. 119, 130)
- Reck Brothers-N-Sons Genetic Advantage Production Sale -Blakesburg, IA (pg. 57)
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- APEX Cattle 'Heterosis Headquarters' Annual Bull and Bred Heifer Sale Dannebrog, NE (pgs. 24-25)

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- 1 Koepplin's Black Simmental and SimAngus Production Sale Mandan, ND (pg. 126)
- S/M Fleckvieh Cattle's Private Treaty Bull Sale Garretson, SD (pg. 144)
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- Lazy C Diamond Ranch's Bull and Female Production Sale Kintyre, ND (pgs. 36-37)
- Stavick Simmental's King of the Range Bull Sale, Veblen, SD (pgs. 134, 141)
- Cow Camp Ranch's Spring Bull Sale Lost Springs, KS (pgs. 8-9, 128)
- Kunkel Simmentals' Annual Bull and Bred Female Sale -New Salem, ND (pg. 103)
- Schooley Cattle's Annual Production Sale Bloomfield, IA (pg. 95)
- Blue River Gang's 40th Annual Production Sale Rising City, NE (pg. 59)
- Ekstrum Simmentals' Annual Bull Sale Kimball, SD (pg. 39)
- Klain Simmental Ranch's 40th Annual Production Sale—Ruso, ND (pg. 116) Loonan Stock Farms' 47th Anniversary Production Sale—Corning, IA (pg. 47)
- Prickly Pear Simmentals "Made In Montana" Sale Helena, MT (pg. 58) Springer Simmental's Value Based Genetics Sale Decorah, IA (pg. 129)
- Kline Simmental Ranch's 10th Annual Production Sale -Hurdsfield, ND (pgs. 54-55)
- 42nd Annual Gateway "Breeding Value" Bull Sale Lewistown, MT (pgs. 97, IBC)
- Long's Simmentals' 2nd Annual Production Sale Creston, IA (pg. 51) Wicks Cattle Simmental and SimAngus Bull Sale Richardton ND
- Edge of the West Production Sale Mandan, ND (pgs. 97, 111, 132)
- Werning Cattle Company's Production Sale Emery, SD (pgs. 60-61) Jackpot Cattle Company's Annual Bull Sale Wessington, SD
- River Creek Farms' 32nd Annual Production Sale Manhattan, KS (pgs.21, 130)
- Wilkinson Farms' Breeding for the Future Sale C-B Sale Facility (pg. 120)
- Felt Farms' Bull Sale West Point, NE (pg. 62)
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- Rhodes Angus Annual Sale Carlinville, IL (pg. 66)

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ALENDAR

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- 22 Deckert's Simmental and Red Angus Annual Production Sale Steele, ND (pg. 98)
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- Price Cattle Company's SimAngus™ Bull and Heifer Sale -Stanfield, OR (pg. 142)
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 - 28 Lehrman Family Simmentals' Annual Production Sale Mitchell, SD (pg. 69)

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- Doll Simmental Ranch's 42nd Annual Production Sale —Mandan, ND (pg. 115)
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- Hanel's Black Simmentals' Black and White Bull Sale Courtland, KS
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- 21 Volk Livestock's Online Sale — www.sconlinesales.com (pg. 45)
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- 24 Western Cattle Source's Production Sale, Crawford, NE (pg. 131)
- 25 Vertical Edge Genetics' Annual Production Sale — Bancroft, ID
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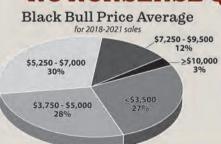
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W01J ASA 3935632 PB SM SIRE: HOOK'S EAGLE 6E CE 15 • YW 147.2 • \$API 189.6 • \$TI 106.6



G22J ASA 3960257 3/4 SM 1/4 AN SIRE: KBHR HIGH ROAD E283 CE 14.3 • YW 142.1 • \$API 156.3 • \$TI 95.7



G27J ASA 3949921 SimAngus SIRE: TJ FRANCHISE 451D CE 9.5 • YW 138 • \$API 156.3 • \$TI 91.7

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1.28.22

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EPD current 12/9/2021.



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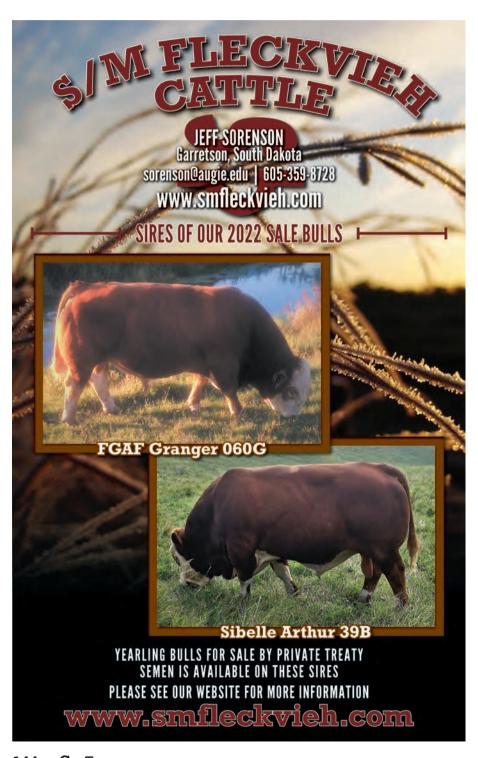
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CLRS Hero 8086H



126.0 0.51 0.78 184.5

C-3 Ground Breaker RNS G953



0.85 0.71 166.0

KBHR Cimarron F151



0.96 1.08 194.2 -4.3

GW Major Move 590E

ASA 3242835 5/8 SM 1/4 AN 1/8 AR

137.2 0.32

GW Hilger One 454H_ ASA 3701575 3/4 SM 3/16 AN 1/16 AR

YW MARB RE 136.8 0.45 0.91

IR Original H341

HSF Cardinal 1336

ASA 3749672 PB SM MARB WW RE YW

> 123.8 0.42

78.6

ASR American Proud H0301



0.38

1.23

162.0

ASA 3839855 1/2 SM 1/2 AN Œ ww YW MARR SAPI STI

102.0

0.96



CE RW ww YW MARR SAPI -2.7 0.72 180.3



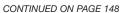
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39TH ANNUAL PRODUCTION SALE

THURSDAY, MARCH 10, 2022 1:00 PM AT THE RANCH LUNCH SERVED AT 11:30

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60 BULLS AND 25 BRED HEIFERS SELL

FARMS

March 26, 2022

1:00 pm • Hanover, IL



J018 // ASA 3889639 // 1/2 SM 1/2 AN POLLED, BLACK WERNER FLAT TOP 4136 SON.

BW	WW	YW	MCE	MILK	MWW
-2.7	71.6	122.4	11.7	30.9	66.6
CW	YG	MARB	REA	SAPI	STI
30.9	-0.06	0.57	0.36	155.9	87.2
	-2.7 CW	-2.7 71.6 CW YG	-2.7 71.6 122.4 CW YG MARB	-2.7 71.6 122.4 11.7 CW YG MARB REA	-2.7 71.6 122.4 11.7 30.9 CW YG MARB REA SAPI



J015 // ASA 3889636 // 5/8 SM 3/8 AN POLLED, BLACK TJ STONE COLD 336G SON

CE	BW	WW	YW	MCE	MILK	MWW
15.9	-1.1	87.6	137	9.7	30.2	74
DOC	CW	YG	MARB	REA	SAPI	STI
12.1	48.3	-0.17	0.43	0.79	154.4	91.1



J055 // ASA 3889672 // PB SM POLLED, BLACK KBHR HIGH HEAT G087 SON

CE	BW	ww	YW	MCE	MILK	MWW
18.4	-2.5	71.3	112.3	11	24.5	60.1
DOC	CW	YG	MARB	REA	SAPI	STI
15.2	35.2	-0.42	0.41	1.02	166.4	87.5



J042 // ASA 3889660 // PB SM

CE	BW	WW	YW	MCE	MILK	MWW
14	0.4	80.8	125.7	8.1	22.4	62.8
DOC	CW	YG	MARB	REA	SAPI	STI
9.7	32.9	-0.43	0.27	0.86	149.5	85.4



J096 // ASA 3889712 // PB SM POLLED, RED PBF RED PAINT F88 SON

CE	BW	WW	YW	MCE	MILK	MWW
14.6	-1.2	63.7	92.3	7.6	30.5	62.2
DOC	CW	YG	MARB	REA	SAPI	STI
2	24.5	-0.26	0.33	0.47	142.7	78
	14.6	14.6 -1.2 DOC CW	14.6 -1.2 63.7 DOC CW YG	14.6 -1.2 63.7 92.3 DOC CW YG MARB	14.6 -1.2 63.7 92.3 7.6 DOC CW YG MARB REA	14.6 -1.2 63.7 92.3 7.6 30.5 DOC CW YG MARB REA \$API



J013 // ASA 3889634 // PB SM HOMO POLLED, BLACK WBF FIRST RESPONSE F029 SON.

Œ	BW	WW	YW	MCE	MILK	MWW
13.9	1.4	82.2	127.4	8.5	28	69
DOC	CW	YG	MARB	REA	SAPI	\$TI
17.5	43	-0.32	0.3	0.96	136.9	81.6

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J408 // ASA 3889813 // 5/8 SM 3/8 AN HOMO POLLED, BLACK TJ STONE COLD 336G DAUGHTER

CE	BW	ww	YW	MCE	MILK	MWW
9.8	0.9	78.6	121.7	2.8	23.9	63.2
DOC	CW	YG	MARB	REA	SAPI	STI
8.5	34.6	-0.12	0.39	0.57	133.2	80.3

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Superior Productions
Superior Productions SLA-TV
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Top Dollar Angus
Tan Canamias

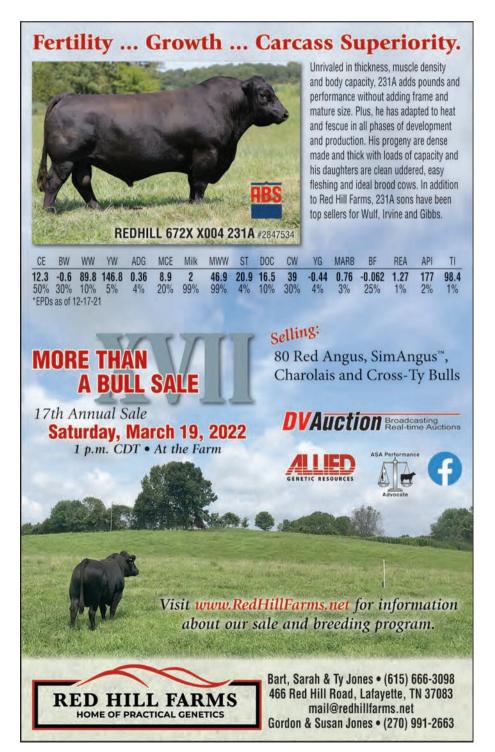
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6%	10%	20%	15%	45%	35%	25%	20%	15%	20%	8%



BAR CK PENDLETON 7028 x GW MISS BREAKTHRU 907G HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
18	-4.9	66	109	11	26	59
DOC	CW	YG	MARB	REA	API	TI
16	36	-0.13	1.11	0.51	194	100



GIBBS 7019E BRONCO x GW MISS BREAKTHRU 925G HOMO BLACK HOMO POLLED 5/8 SM 5/16 AN 1/16 AR

CE	BW	WW	YW	MCE	MILK	MWW
17	-4.7	67	105	10	27	60
DOC	CW	YG	MARB	REA	API	TI
15	15	-0.18	0.62	0.38	168	88



GW SPARKY 369E x GW MISS GPRD 038W
HOMO BLACK HOMO POLLED 5/8 SM 1/4 AN 1/8 AR

						MACHINES .
CE	BW	WW	YW	MCE	MILK	MWW
15	-2.8	83	126	8	32	74
DOC	CW	YG	MARB	REA	API	TI
15	36	-0.23	0.62	0.70	175	96



GW DEADWOOD 079G x GW MISS MARL MAN 950G BLACK POLLED 1/2 SM 1/4 AN 1/4 AR

CE	BW	WW	YW	MCE	MILK	MWW
15	-0.1	76	121	9	29	67
DOC	CW	YG	MARB	REA	API	TI
12	32	-0.19	0.56	0.68	148	86



GW MOVIN ON 183C x GW MISS DIRECT DRIVE 912F RED HOMO POLLED 1/2 SM 5/16 AR 3/16 AN

CE	BW	ww	YW	MCE	MILK	MWW
16	-2.8	85	139	9	25	67
DOC	CW	YG	MARB	REA	API	TI
14	29	-0.18	0.53	0.42	166	94



GW BREAKTHRU 045C x GW MISS DUE NORTH 734E HOMO BLACK HOMO POLLED 5/8 SM 3/8 AN

CE	BW	ww	YW	MCE	MILK	MWW
15	-0.1	87	135	8	26	70
DOC	CW	YG	MARB	REA	API	TI
15	21	-0.12	0.90	0.36	170	101

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