### Volume 26 • Number 4 Early Fall 2018

Linking SimGenetics to Commercial Cattle

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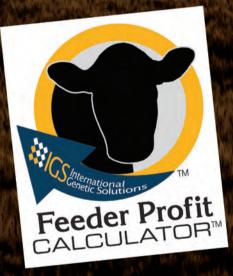
### In This Issue:

**Diversified Family Tradition** Cow Herd DNA Roundup Value Driven by Information **BIF Summary** 

**Beef Cow Nutrition:** Interpreting Forage Analysis **Genetic Predictions for Brisket Disease** 

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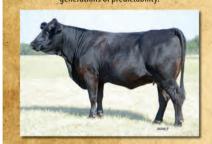
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in



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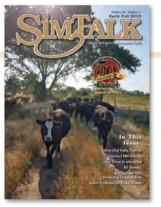
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Simmental and SimAngus™ cows from the herd of Roth Farms, Sterling, KS, are moved to the next pasture in a rotational grazing system. Photo by Cari Roth.



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TRAIT	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	000	CW	YG	MARB	BF	REA	SHR	SAPI	\$TI
EPD	+15.5	-2.3	+62.1	+95.7	+.21	+6.4	+24.8	+55.8	+19.4	+17.1	+35.5	40	+.62	069	+1.03	45	0100	\$82
ACC	.74	.87	.84	.83	.83	.42	.54	.55	.27	.70	.66	.50	.61	.56	.62	.16	\$103	202
	DNA test	ed DLF.	Homozy	nous Bla	ck Hom	ozvaous	Polled						1		EPDs	as of 7/2	4/2018	TOP



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- A sound made performance bull who should sire added size, rib, and payweight
- DNA tested homozygous black, homozygous polled, 1/2 SM, 1/2 AN

TRAIT	CE	BW	WW	YW	ADG	MCE	MILK	MWW	STAY	000	CW	YG	MARB	BF	REA	SHR	\$API	\$TI
EPD	+9.2	+1.2	+89.6	+138.7	+.31	+4.9	+15.4	+60.1	+20.8	+17.6	+51.4	03	+.51	+.002	+.65	37	C1EA	\$88
ACC	.60	.83	.80	.79	.79	.46	.54	.55	.26	.56	.61	.47	.62	.51	.58	.17	5154	200
	DNA test	ed AMF,	CAF, DI	OF, NHF,	OSF, Ho	mozygou	is Black,	Homozy	gous Po	lled			-		EPDs	as of 7/2	4/2018	TOP 35%

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# **EXAMPLE 1 EXAMPLE 1 EXAMP**



### Wide Ranges

7SM80 | CCR WIDE RANGE 9005A | 2725666 | Graduate x In Dew Time 3/4 SM 1/4 AN | Homo. Black / Homo. Polled Quickly becoming a household name in the SimAngus<sup>™</sup> world, WIDE RANGE have proven to make deep bodied, beautiful uddered females. Use him in Angus, black baldies, commercial or purebred operations!

	CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
EPD	12.9	0	78.9	123.7	15.6	16.5	12.3	39.2	12	1.33	127.1	74.1
Acc	.77	.91	.88	.87	.61	.31	.58	.72	.66	.72		
% Rank	-		10	10				20		1		30





7SM83 | TNT BCR UNIFIED B203 | 2902092 | UNITED x Tanker 1/2 SM 1/2 AN | Homo. Black / Homo. Polled Siring middle-sized, well balanced offspring who are born easy and grow fast, UNIFIED is stylish in his profile and generates strong sons and attractive daughters.

	CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
EPD	17.7	-3.1	47.2	72.5	32	20.8	13.1	29.1	.65	.49	156.1	71.5
Acc	.26	.35	.31	.32	.22	.12	.22	.30	.27	.29		
% Rank	4	4			2	3	25		4		3	



Big Timber

7SM93 | KOCH BIG TIMBER 685D | 3133113 | Yellowstone x Lucky Boy PB SM | Homo. Black / Homo. Polled Backed by a powerful, young cow family, BIG TIMBER offers a unique calving ease pedigree that can be used on several popular bloodlines.

	CE	BW	WW	YW	MILK	STAY	DOC	CW	MARB	REA	API	TI
EPD	15.1	-0.3	75.6	114	22.6	20.9	9	25.4	.22	.80	155.9	81.7
Acc	.45	.54	.50	.51	.45	.28	.27	.48	.42	.46		
% Rank	4	15	20	20		10			10		2	4



Red Moon

7SM92 | WS RED MOON D76 | 3115609 | Executive Order x Moonshine PB SM | Red / Homo. Polled Brought in for his calving ease potential, outcross pedigree and physical qualities, RED MOON is here to

30 10

bring something new to your herd! His calving reports indicate they're born easy. WW YW MILK STAY DOC CW MARB REA API Œ BW 76.9 118.1 23.1 15.2 10.8 32.6 .28 .89 143.7 82.5 EPD 12.7 0.9 Acc .27 .40 .30 .30 .21 .12 .23 .42 .24



SIRES Conception. Calving Ease. Carcass. Cows.

20 30 15

15

% Rank



10 3

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### By Jackie Atkins, Ph.D.



### Gut check — What is your commitment level?

We all get stuck from time-totime. We typically know what we need to do but for various reasons (read, excuses) we delay action. The list of reasons for inaction can be long and sound reasonable. It could be that we have other higher priorities or

not enough resources (money, time, or knowledge). If we are only half-hearted in our commitment to that thing we are stuck on, we stall out at the first sign of difficulty. Conversely, if we are truly committed, we find a way. I am convinced this is true. If you are 100% dedicated to something, you will keep pursuing, pursuing, pursuing, pursuing until it becomes reality.

Are there things in life that don't require a 100% commitment? Definitely. My garden is not weed-free — I don't think it needs to be weed-free, and I have not made this a high priority. It is important to reflect on what does deserve your wholehearted commitment. You can't fake this. Okay, you can fake it for a little,

but at the first sign of difficulty your true commitment level will show.

What will you pursue no matter what difficulties face you? Maybe it's raising high-quality beef cattle, ag advocacy, environmental stewardship, training the next generation, your marriage, your family, your neighbors and friends. Be specific in your commitments. Don't just commit yourself to the beef industry. What specific aspects of the beef industry are your highest priority? Maybe all of the above — maybe a whole other laundry list. The point is not to judge the items you select. Determining your commitments is a personal choice and the only wrong answer is a dishonest answer.

The take-home lesson is to be aware of what is worth your wholehearted commitment. Once you know the things in your life worth 100% commitment, pursue them. Devote resources to them. If you get stuck, find a new path. If you don't know how, find someone who does and learn from them. Surround yourself with people who do these things well, who can hold you to a higher standard of excellence. Find your niche and commit to it.



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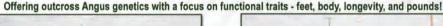
Bruin 418 Kozi 6326 • 11/15/16 • Reg \*18943817



Circle Resource D81 • 7/29/17 • Reg 3414240 • 1/2 SM One of the best yearlings in the sale! Easy doing and free moving!



Circle Pasque E138 • 8/5/17 • Reg 3414247 • PB SM A purebred Sim that will have a lot of friends sale day. Herd bull prospect!





Bruin Envy 7248 • 7/26/17 • Reg \*19140354 A low birth, high growth bull with depth, power, substance, and shape! A Recharge son out of a young cow who's quickly becoming one of our best!



Bruin 5213 Enterprise 7251 • 7/28/17 • Reg \*19140356 Balance and eye appeal go with this bull's power and design!





RX Amarula R501 Sire: PRR Ruler 447U PRR Doorn Right 604M

PRR Scout 002N Dam: PRR Bonnie 88W PRR Bonita 51N

ASA	#	26	558	33	6	5
5/8			-		-	
<b>J</b> /0	2	IVI	3/	0	D	n

ASA# 2513491

5/8 SM 3/8 BR

				Direct				Mat	ernal					Car	cass			\$ In	dex
18	Trait	CE	BW	WW	YW	ADG	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	Shr	API	TI
7.18	EPD	4.9	4.5	58.7	84.6	.16	3.9	15.5	44.8	19.0	2.2	13.3	71	-0.52	166	.96	21	72.8	41.8
as of	ACC	.48	.73	.66	.64	.64	.26	.44	.46	.20	.31	.47	.33	.35	.23	.46	.01		
EPDs	%									1			1		1	2	10		

# Simbrah

PRR Powerfull 22Z is a great polled/s, tender genes, very long, carcass quality purebred Simbrah bull living up to his name.



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Contact Bill Travis for purchase. Domestic and International CSS semen is available.

PRR Ruler 447U — Powerful's Sire



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**RPP Prairie King 97N** Sire: PRR Perfection 82S PRR High Hopes 242H

PRR Pioneer 961M Dam: PRR Clarita 522P TMS Karlita F55

Direct Maternal Carcass \$ Index EPDs as of 7.18..18 Trait CE BW ww YW ADG MCE Milk MWW Stay DOC CW YG Marb Fat REA Sh API τı EPD 88.9 1.9 5.9 .20 2.3 25.0 53.1 -3.0 45.4 -.45 -.146 .72 62.8 44.1 56.2 11.2 -.28 \_ ACC .43 .73 .64 .32 .48 .34 .66 .64 .36 .46 .48 .25 .40 .29 .43 \_ % 15 5 15 1 10 20

## Simbrah

PRR Rito 545W is a powerful, polled, high quality Simbrah bull with efficient growth and muscularity.



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Hooks Shear Force 38K Sire: WS Beef Maker R13 DCR Ms Ribeye N72 PRR Ranger 212F Dam: PRR Miss Optima 46R PRR Optima 677J ASA# 2676077 3/4 SM 1/4 BR

				Direct				Mat	ernal					Car	cass			\$ In	dex
.18	Trait	CE	BW	ww	YW	ADG	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	Shr	API	TI
7.18	EPD	6.9	2.9	82.9	118.7	.22	3.5	20.4	61.7	15.0	14.9	23.2	-0.58	.00	128	1.00	10	118.3	75.7
as of	ACC	.53	.71	.64	.62	.62	.31	.48	.48	.25	.35	.49	.38	.45	.35	.50	.02		
EPDs	%			1	1	4			1	15	1	10	10	3		1		1	1

# Simbrah

- PRR Preview 973Z is homozygous polled, high capacity, highest carcass quality, 3/4 SM x 1/4 BR Simbrah bull.
- Preview has produced Prime beef and is one of the top production \$TI bulls.



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PRR Pacesetter 205C Sire: PRR Palisade 813T PRR Optima 6771 PRR Scout 002N Dam: PRR Etta 2S PRR Bingoette 261P ASA# 2636889 5/8 SM 3/8 BR

				Direct				Mat	ernal					Car	cass			\$ In	ıdex
.18	Trait		BW	WW	YW	ADG	MCE	Milk	MWW	Stay	DOC	CW	YG	Marb	Fat	REA	Shr	API	TI
	EPD	10.1	.7	65.8	93.3	.17	4.3	11.5	44.3	12.5	7.5	20.6	45	25	115	.65	.06	88.8	56.4
as of	ACC	.52	.72	.66	.65	.65	.32	.47	.48	.22	.24	.51	.38	.45	.36	.47	.02		
EPDs	%	15	10	20								15							20

# Simbrah

PRR Alamo 690Y is a high-volumed, long, well muscled, purebred Simbrah bull . . . an exceptional BEEF bull shown in his working clothes.

The dam of Alamo, PRR Etta 2S, was a very high capacity purebred Simbrah.

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# **Diversified** Family Tradition

A family-owned ranching and farming operation continually looks to improve and expand their enterprise.

By Emme Troendle

**Carson Guenzi, (pronounced gwen-zee), a fifth-generation sugar beet farmer and fourth-generation cattle rancher,** maintains and manages, with the help of his family, an intricately woven diversified farming and ranching operation that dates back to the end of the silver mining rush in Colorado. Located 15 miles outside of Sterling, the Guenzi's commercial 330head SimAngus<sup>™</sup> cow-calf operation butts up to the Ogallala Aquifer, straddling the line between productive farmland and wild Colorado grassland.

When the Guenzi family originally settled in the valley, they started growing and hauling sugar beets, corn, and alfalfa. Over the years, the farm expanded to include grass cattle for the Chimney Canyon Grazing Association and a handful of mixed-breed cows from the local sale barn. In 1991, Ken Guenzi's grandfather expanded the herd and started focusing on improving genetics. "Our first few years, we had some put-together cows from the sale," Guenzi laughs. "We had a little bit of everything, but in 1994, we started Aling and developing a more consistent herd."

Unlike many cow-calf operations in the area, Guenzi's end product isn't the weaned calf sold to the feedlot; it is the animal being shipped to the packing plant. To meet the demands of a fast-paced industry, Guenzi tracks herd data, collects DNA, and implements a progressive breeding program to make the family operation a profitable and growing enterprise.

The Guenzi men, left to right: Scott, Brayden, John, Dave, Carson, and Logan.

### The Irons in the Fire

Focusing on the bottom line, Guenzi Farm has a strict 30-day calving window that must be maintained for a cow to stay in the herd. In the first part of February, the heifers begin calving, and the cows follow shortly behind the first of March. If any cow or heifer falls outside the allotted 30-day window, they are sold.

"We are constantly culling, mainly because we want to keep our calving period short, so we can get to farming on time. Late-calving cows and heifers are sold to producers whose program the cows will fit better," Guenzi explains. "As a result, we are retaining cows that reproduce quickly, and throw more uniform calves. It's not that they are bad cows, but they just don't fit our program."

Throughout the year, Guenzi and his brother, Logan, run the cattle, while his two cousins, Brayden and Scott, manage the farming side. But, during the busiest times of the year harvest and calving — it's all hands on deck for each side. He continues, "We want to make this operation run like a well-oiled machine, and with all four grandsons coming back home and wanting to be involved, we want to focus on diversifying and expanding the operation."

Throughout the year, 1,000 stocker calves are purchased to feed out alongside the calves born and raised on the operation. By the first of April, all calves are branded, and the planting has started.

Shortly after planting has concluded, heifers are synchronized and AI bred. Twenty-one days later, around Memorial Day weekend, the cows are AI bred and any heifers that might come back into heat are bred again before being turned out with the cleanup bulls. "Stayability is huge for us. We give all of our heifers a chance to breed, but if they don't, we will cull them from our herd and turn them into feeder heifers, which is really easy for us to do," Guenzi shares.

When Guenzi Farms initially started Aling the cow herd, they bred primarily to Angus sires and, through heifer retention, developed a more consistent cow herd. When the herd became mainly Angus in composition, the lack of heterosis started affecting their bottom line.

"The herd flatlined when we were straight Angus," Guenzi states. "We weren't losing any ground, but we weren't gaining any either. We knew it was time to make a change."

To incorporate heterosis back into the herd, Guenzi started utilizing Simmental and SimAngus bulls to increase performance. He commends the Simmental breed on their ability to satisfy maternal and terminal traits. "I really enjoyed watching the herd improve with the Simmental influence. We are always looking for good mothers and calves that perform in the feedlot. Simmental was the answer to that."

Adding a level of diversity to their operation, Guenzi recently built additional pens to background and finish cattle. In years past, steers were always retained and backgrounded to 1,000 pounds before being sent to a local feedlot. Guenzi explains, "We sold our calves on a live basis previously, but with a growing operation and good genetics, we thought we could capitalize on grid marketing system, and give the corporation more depth."

This October the first cattle Guenzi developed will be sent directly to the packing plant. He plans to collect carcass data on them. "When we sold the cattle on a live basis, we never really knew how they performed, but now that we are shipping directly to the packers, we can capture the premiums and data to better improve our herd and our bottom line."

The expansion in the operation has not changed the direction of how herd decisions are made. Guenzi says, "Even with the direction that we are moving now, we still are looking for heifers with good stayability in the herd that are easy feeders and produce calves that will perform through weaning and yearling in the feedlot. We ask our cattle to do a lot, but they do."

Guenzi Farms recently enrolled their cattle in ASA's commercial herd option and the Cow Herd DNA Roundup research project with the hopes that by collecting more phenotypic data, carcass data, and DNA genomics, they will be able to make selection and cull decisions in their herd a little easier.

Guenzi explains, "I knew that if we start DNA testing the cows and replacement heifers, we can hone in and select for traits that will give us good mothers and stayability while also selecting for traits that will work well in a feedlot."

### **Roots in Agriculture**

While the Guenzi family has been in the cattle industry for the last 27 years, the family has been in the sugar beet industry even longer. Since his immigrant great-great-grandfather moved to Colorado and settled in Logan County around 1909, the Guenzis have been farming sugar beets.



Harvesting sugar beets on the Guenzi Farm.

Carson's great-grandfather, Chuck, his grandfather, Ken, father, David and uncle, John — and now his two cousins, Brayden and Scott, and brother, Logan — have all been integral parts of growing and sustaining the farming and cattle operation. Evie, Carson's grandmother, holds the most difficult position in the operation. Carson chuckles, "Throughout the years, Grandma Evie keeps the books and keeps us all in line."

CONTINUED ON PAGE 14

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# **Diversified Family Tradition**

CONTINUED FROM PAGE 11

Three young SimAngus calves on pasture.



SimAngus cows and calf on late summer pasture.

"We are always trying to improve. If you're standing still then everyone is going to pass you,"

Guenzi Farms is a part of the Western Sugar Cooperative, which operates the sugar beet processing plant in Fort Morgan, the only plant left in the state.

"Sugar beets are pretty integral to our family background. They are what kept us in agriculture and gave us the boost to start the cattle operation," he says. Recalling the farming and ranching growth over the years, Carson credits his grandfather, Ken, for acquiring ground and building the business.

"When we were starting out, Grandpa Kenny knew it was more important to acquire land and grow the operation than it was to brag about having the best crop. He spent the money on growing the farm ground and the herd. It has allowed us to transition to improve other ways."

In May, Carson and his wife, Erin, had their first son, Cason, the sixth-generation sugar beet farmer and fifth-generation cattle rancher to live on the ranch.

"We are always trying to improve. If you're standing still then everyone is going to pass you," Carson concludes. "We see every year that farmers and ranchers have to give it up. It's pretty unique that all four grandsons came back to the operation and want to see it grow."



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15

EPDs as of August 8, 2018

15

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FOR

# **Cow Herd DNA Roundup**

### Seedstock and commercial producers share their firsthand experience with ASA's latest DNA research project.

**Coordinated by Lilly Platts & Emme Troendle** 

### What is it?

The Cow Herd DNA Roundup (CHR) is a recent program launched by the ASA in collaboration with GeneSeek® DNA testing laboratory. The CHR project offers 60% off a 50K genomic panel including parentage to participating breeders who test their entire cow herd. If breeders also submit cow weights with either Body Condition

Scores (BCS) or hip heights they receive additional discounts.

The project is in full-swing, and breeders are now receiving genomic data back on their entire cow herd. Some of the first breeders to submit samples on their herd provide their comments and vision for the project:

### Tom Hook, Hook Farms, Tracy, MN

"Hook Farms is a fourth generation diversified livestock and crop operation in southwest Minnesota. We have been focused on raising predictable and profitable Simmental and SimAngus<sup>™</sup> seedstock for the last 44 years.

"The biggest advantage of CHR will be the breed improvement and accuracy of the genetic predictors. We're on the front end of what is possible with genomics, so I think it's going to give phenotypic validation to the genomics, and provide a baseline for those genomics.

"An unforeseen benefit of CHR is it will verify the parentage of a lot of animals. It's going to clean up many pedigrees where an animal's parents were not recorded correctly, which happens for a variety of reasons. It will give more accuracy to the pedigrees as well as improve the accuracy of our genetic predictors.



Tom Hook and his crew working cattle.

"The poultry industry is out in front, showing the genetic progress that they have been able to make using genomics. I understand there are environmental constraints we won't be able to get around in the beef industry, but we can still make phenomenal genetic progress using these tools. CHR validates both sides — you get an actual phenotype, and now through modeling, the sire summary, and incorporating single-step genomic predictors, we're getting real validated information that to me has great merit.

"For commercial producers buying bulls, there will be better genetic predictors they can select from. I think that the more DNA data we can collect across breeds in IGS, the more we can add value and validate the strengths and weaknesses of each breed to know how to crossbreed. To me, that would be the great advantage to the commercial sector. In IGS, the more information we can gather the more we can build the multi-breed aspect. Because we're a science-based breed, we believe in crossbreeding."

### Bruce Mershon, Mershon Cattle LLC, Lee's Summit, MO

"We run 1,500 commercial cows in west central Missouri. We used timed AI on 85% of cows and all replacement heifers, and retain ownership on most steers from birth to harvest. Our bred heifers are sold at Sydgen Influence and Show Me Select.

"We heard about the CHR Project through Chip Kemp. He called to let us know the price had been reduced to \$15 per sample. At the reduced price, we decided it was time to get a baseline of data on our females. Earlier in 2017, we joined ASA and started entering our females in Herdbook with the goal to create EPDs on our commercial cows. All of our cows are crossbreds.

"We expect the genotyping will accelerate decisions on replacement females. First, help with culling decisions on replacement heifers and second, direct cows to our maternal herd versus terminal herd.



(Mershon continued)

"Information is king. It takes so long to fix a mistake in a commercial cow-calf operation and equally, finding the best cows can take fourplus years. What if we can cut the time in half or less? How much is it worth? We don't have a hard dollar cost, but \$15 a head seems like a small price of admission to improve our herd in half the time."



Bruce and Tracey Mershon.

### Joe Mertz, River Creek Farms, Manhattan, KS



"We run 330 registered SimAngus and Simmental pairs in the Kansas Flint Hills. In addition, over 100 embryos are placed in cooperator herds. We market around 150 bulls every year. Calves not making the cut are fed out and carcass data collected. Our objective is to offer cattle that make our customers more profit and reduce their stress. We do this by focusing on these traits — Calving Ease, Performance, Marbling, and Docility.

"We had been running the low density genomic test on all our sale bulls and replacement heifers the last several years, so we were familiar with DNA testing and the CHR. When you offer a 4-year breeding season guarantee like we do, you don't have much wiggle room as far as a bull's actual versus expected performance goes. The more information we can get with DNA, the more powerful our selection tools become. That helps us stand behind our bulls and our customers have more faith in them as well.

Joe Mertz

"I feel DNA-enhanced EPDs will make our EPDs more accurate and predictable as more data is collected and fed into the system.

Like having another tool in your toolbox.

"Going back to our four-year breeding season guarantee, if we can use DNA and the insights it will provide about our cow herd to better help differentiate bulls that will and won't work for our customers, it will save us and them time and money.

"Our future management decisions will be based on economics, phenotype and EPDs. The more accurate our information can be, the better for our customer's bottom line."

### Dean Wang, Baker, MT

"We run about 1,500 cows and 600 yearling heifers every year, owned and leased on 40,000 acres between two places in Baker and Broadus. We sell yearling bulls, Angus and SimAngus, and heifers to repeat customers. The steer calves are sold off the cow in the fall. We have an annual bull sale, and the bred heifers we sell to repeat customers, private treaty.

"We want to identify more pedigree on our bull calves, and identify sires. Also, we want to verify some of the cows that weren't sire identified, and that in turn will make our heifer calves more eligible in the pool for pedigreed replacements and sale. We want to improve accuracy, verify existing pedigrees, and create more animals that were eligible for more pedigrees.

"Marty Ropp helped get the ranch involved in the young sire testing when he was involved with the ASA. We have since maintained a business relation with him over the years. I got involved for the accuracy of with CHR, to verify an existing pedigree, and then to have more animals that will be sire identified. I am working toward complete pedigrees.

"Hopefully, this project will be a marketing tool and a comfort to our customers. We will have gone through and DNA

verified all the pedigrees to ensure accuracy and accordingly the pedigrees out of the bred heifers or the bull calves are more accurate as well.

"Accuracy is what we are after. Now that we have the DNA information, perhaps it will lead to selecting for certain characteristics. We are not that far yet, but at least we have the information available and to use with our replacements."



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Marbling Score	First	Second
Carcass Weight	First	First
Weight Gain Feed Efficiency	First	Second
Weaning Weight	Second	First
Post Weaning Gain	Second	Second

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

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# Value Driven by Information

By Wade Small, President, Livestock Division, Agri Beef Co.

**Editor's Note**: This article was originally published in the 2018 Beef Improvement Federation proceedings.

### Agri Beef Co. is a vertically integrated branded beef company

that has utilized information and technology to drive its production system and improve the quality of beef produced. The progress that has been made in the company related to the quality of beef produced is apparent in the increased volume of sales of upper Choice and Prime product. This trend is not unique to Agri Beef.

As an industry, we have added value to the industry at an accelerated rate over the last ten years. We have seen an increase in total pounds, as well as an increase in Choice + pounds per head across the industry. This is very apparent when you look at genetic trends across multiple breed associations, as well as feedlot and packing plant benchmark data.



This is true value that has been created in the industry. With the historically segmented nature of the business, identifying where the value is captured is often difficult to do, and depending on market conditions, the segment gaining the greatest benefit may shift from year to year. The longer the

Small addressing the gathering at the Beef Improvement Federation Conference.

ownership resides with one party throughout the production system, the greater the opportunity to capture a larger percentage of the value.

As an industry, we spend a lot of time and money to capture a tremendous amount of data in all segments. How we analyze and utilize the data is what creates value in the production system.

Value over the last ten years has been driven by improvements in daily gain

and marbling. These have been the two factors that have also been the focus of the industry. Daily gain and carcass weight are the main drivers behind profitability, and marbling is the main factor increasing carcass value and improving beef demand. It is also phenotypic data that is easy to capture, analyze, and ratio.

Identifying the areas in the industry where we need to focus to continue to meet consumer demand and improve profitability will require innovative ways to capture and analyze economically important traits that have been historically hard to track. Capturing this data requires increased cooperation across segments of the industry that has historically been difficult to track.

With the importance of animal welfare, increased scrutiny of antibiotic use, and the increased growth of antibiotic-free programs, animal health has an increasing impact on profitability as time goes on. This is an example of data that is difficult to capture due to the lack of a standardized data collection platform and management practices.

As topics like these move more to the forefront of the cattle feeding and packing industry and begin to have a greater financial impact, there will be more collaboration on identifying ways to capture animal health data and make selection decisions that increase value throughout the industry.

We have proved as an industry that we can make dramatic improvements in traits that we can measure and select for. Identifying ways for the industry to collaborate to collect data on traits that will add the greatest value over the next ten years will be the greatest challenge to continue to build upon the progress made in the last ten years.

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DOB: 11-5-16 • Purebred Simmental Bred Heifer Hook's Bounty 6B x GW Lucky Break 047G Will calve in December to NLC Break Free.



DOB: 9-30-16 • 3/4 Simmental Bred Heifer CDI Maverick 335B x TRAXS Rushmore X103 Will calve in December to WS Prime Beef.



DOB: 1-18-17 • Purebred Simmental Bred Heifer Hook's Yellowstone 97Y x Dikeman's Sure Bet Will calve in January to Hook's Beacon.



DOB: 10-10-16 • Purebred Simmental Bred Heifer CCR Cowboy Cut 5048Z x Koch LC Monte 803U Will Calve in December to CCR Boulder.



E124



Hook's Yellowstone 97Y x Sand Ranch Hand

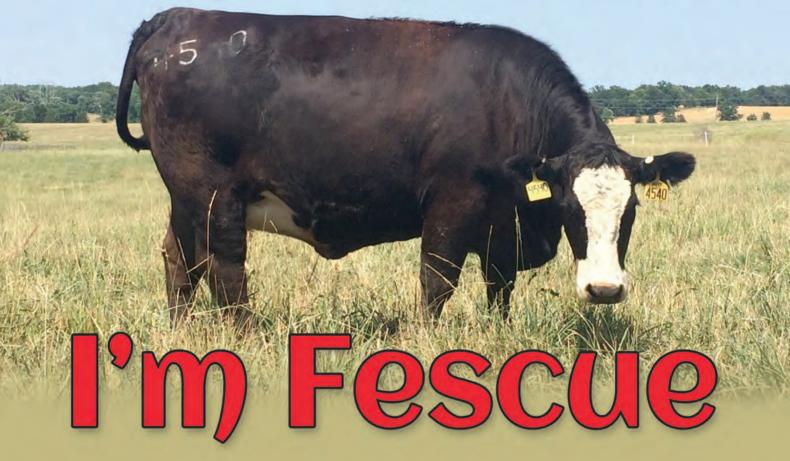
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CE	BW	WW	YW	MILK	MARB	RE	API	TI
18.0	-1.8	80.5	123.8	19.0	0.37	0.83	156.7	85.4
3	15	5	10		35	15	3	2

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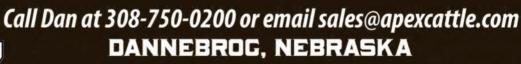


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## **BEEF COW NUTRITION: INTERPRETING FORAGE ANALYSIS**

By Rachel Endecott, Ph.D., Director of Youth Development and Special Projects

As summer starts to come to an end, thoughts turn to fall management of the cow herd. Depending on your location, planning for winter feeding might be a critical piece of your fall management scheme. One of the first steps in planning for winter feeding should be collecting a representative sample of feedstuffs and sending them to a laboratory for a nutrient analysis. In this article, forage analyses will be the focus,



Rachel Endecott Ph.D.

although the chemistry of a nutrient analysis is fairly similar for all types of feeds. The saying, "It's hard to manage if you don't measure first," is especially true when planning a feeding program. An understanding of forage quality is a critical first step in developing least-cost rations for wintering beef cattle.

### **Sample Collection**

For the most accurate prediction of how animals will perform on a particular forage, it is critical to obtain an accurate representative sample of the forage itself. Forages may be sampled in the pasture, after harvest and baling, or pre- and post-ensiling. Beef cattle producers often have questions about the best way to sample baled forages. Ideally, at least 10% of the bales in a lot of hay should be selected, and two core samples collected from each bale. Samples should be collected with a core sampler rather than grabbing a sample. Many local Extension offices and feed stores have core sampling probes that producers can borrow. To ensure the most representative sample, round bale samples should be collected from the curved side of the bale and square bale samples should be collected from the small end of the bale.

### **Nutrient Analysis Results**

Below is a sample nutrient analysis for a grass hay, followed by definition of important forage analysis terms used to interpret the results from the laboratory.

Component	As Received	Dry Wt
Moisture (%)	12.58	—
Dry Matter (%)	87.42	—
Crude Protein (%)	6.92	7.92
Acid Detergent Fiber (%)	35.3	40.4
Total Digestible Nutrients (%)	49.4	56.5
Net Energy – lactation (Mcal/lb)	0.50	0.57
Net Energy – maintenance (Mcal/I	b) 0.28	0.32
Net Energy – gain (Mcal/lb)	0.28	0.32

### Moisture

**As Fed** — Values in the "As Fed" or "As Received" column include the moisture contained in the submitted sample. Because of the dilution effect of water, values in this column will be smaller than the Dry Matter column.

**Dry Matter** — Values in the "Dry Matter" column give nutrient information with the water removed. To accurately compare forages of differing water content, they must be compared on a dry matter basis.

### Protein

**Protein (or Crude Protein)** — A measure of the amount of nitrogen in the feedstuff. Laboratories measure the nitrogen in a sample, then multiply by a factor of 6.25 to get the crude protein value.

### Fiber

**Acid Detergent Fiber (ADF)** — Refers to the cellulose and lignin components of the forage cell wall and relates to the ability of an animal to digest the forage. As ADF increases, digestibility of a forage usually decreases.

*Neutral Detergent Fiber (NDF)* — Refers to the total cell wall — cellulose, hemicelluloses and lignin. NDF values reflect the amount of forage an animal can consume. As NDF increases, dry matter intake will generally decrease. Labs often analyze for ADF but may not include NDF values unless specifically requested.

### Energy

**Total Digestible Nutrients (TDN)** — An estimate of the digestibility of the forage and one measure of the energy content of a feedstuff. The higher the TDN value of a forage, the more energy it contains.

**Net Energy for Maintenance (NEm)** — The net energy system is an alternative way to assign energy values to feedstuffs, based on how the energy is partitioned for different uses. NEm describes the ability of a forage to meet the maintenance energy requirements of an animal.

**Net Energy for Growth (NEg)** — NEg describes the amount of energy in a forage available for growth after the maintenance needs have been met.

**Net Energy for Lactation (NEI)** — NEI describes the ability of a forage to meet the energy requirements of lactation.

After nutrient analyses are obtained, the next step is to compare the nutrient composition to nutrient requirements for the classes of cattle consuming those feedstuffs. Sending in forage samples early in the fall allows for more time to make supplement purchasing decisions and fine-tune rations for the upcoming months.



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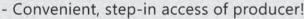
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## Genetic Predictions for BRISKET DISEASE A PRIORITY

### **Costs increasing due to death loss**

### By Dr. Bob Hough, former Executive Vice President of the Red Angus Association of America

**Editor's Note:** This article was originally published by Western Livestock Journal (R) on July 27, 2018.

**Pulmonary hypertension (PH)**, which is commonly referred to as brisket disease, has been observed in cow-



calf and stocker operations where cattle are being grazed at high elevation for over 100 years. In addition, during the last decade death loss has doubled in feedlot cattle, with much of the increased loss coming at the end of the feeding period when animals are close or ready to market. This represents a tremendous economic loss to cattle feeders. There is increasing evidence that this sudden due in large part to PH.

Dr. Bob Hough ing evidence that this s death loss in feedlots is due in large part to PH.

Anecdotal evidence reveals that the industry is feeding more cattle that are straightbred from breeds — particularly Angus — originally developed to thrive at low elevation. These breeds have certain bloodlines known to be prone to having high pulmonary arterial pressure (PAP) and increased incidence of PH. This can result in the sudden death observed in these market-ready cattle. Fortunately, this is heritable, which means it can be impacted through selection.



High mountain disease in a calf.

Pulmonary arteries carry blood from the right heart chambers to the lungs for oxygenation. When PAP increases, the heart must work harder to get blood into the lungs. The increased heart workload associated with high PAP can result in PH in cattle.

Work done at Colorado State University (CSU) reports high PAP results in excessive heart contractions, stretching of the heart muscle, and increased size of the right side of the heart. This also results in decreased animal performance. When the heart chambers exceed capacity, the heart walls thicken, which can result in heart failure and death loss. Research has also demonstrated that PAP increases in all cattle when they are being finished in feedlots, making them more susceptible to PH.



The heart responds to the increased demand placed on it by the high PAP by enlarging through cell replication; however, when dilation of the heart chambers exceeds wall thickening the function of the heart deteriorates for a number of reasons such as poor contractility and relaxation and increased wall stiffness. Ultimately, heart cells begin to die as the heart fails.

As the indicator trait for susceptibility to PH, PAP can be tested for by trained veterinarians. It is important to sort seedstock for the trait because the decreased performance and death loss from PH has become an increasing problem throughout the different segments of the industry, including the finishing phase in feedlots.

In addition, feedlot cattle with compromised lung function caused by things like bovine respiratory disease (BRD) are also prone to higher PAP and potential PH. Therefore, producing genetic predictions to objectively describe an animal's susceptibility to PH has become an industry priority.



Brisket edema in a steer that died from HMD. Clear edema fluid oozes from the incision. The skin over the brisket pits when pressed with a finger.

Feedlot managers have taken advantage of cheap gains from relatively low grain prices by feeding cattle to a fatter body composition. Much of this gain at the end of the feeding phase disproportionally results in increased carcass growth as opposed to the relatively stable size of the organs. This means lung capacity becomes proportionally smaller in relationship to body weight, which results in increased PAP and the potential for PH.

An EPD (expected progeny difference) to predict differences in animals' susceptibility to PH will be based on the indicator trait of PAP, as well as genomic markers. Private businesses like Leachman Cattle of Colorado are currently calculating PAP EPDs, and CSU has been working with the American Angus Association to explore a genetic prediction for that breed.

CSU has found the heritability of PAP measured at high elevation to be .34, which is higher than weaning weight and yearling weight. They have also found the heritability of PAP taken at moderate altitude to be .29 and highly correlated (.83) with measures at high elevation. This means objective genetic predictions can be successfully calculated and susceptibility to PH can be decreased through selection.

Research has also demonstrated that PAP is a complex trait influenced by a large number of genes. This means genomically-enhanced EPDs will increase the accuracy of PAP genetic predictions, so identifying informative markers needs to be researched for incorporation into PAP EPDs.

If lung function is compromised from something like pneumonia, PAP will also be increased, as well as the incidence of PH. This is why genetic predictions for BRD is also being explored. Research has demonstrated that BRD susceptibility is heritable, so EPDs can be calculated, and the susceptibility to BRD decreased through selection.

With the industry increasingly using cattle that are straightbred Angus, as well as other breeds developed at low elevations, the calculation of a PAP EPD is becoming an increasing priority. With cattle being fed to a fatter body composition in yards at moderate elevation, sudden death loss is increasing in cattle near market ready. This costly loss must be addressed for the industry to remain profitable. Luckily, the trait is heritable and responds to selection.

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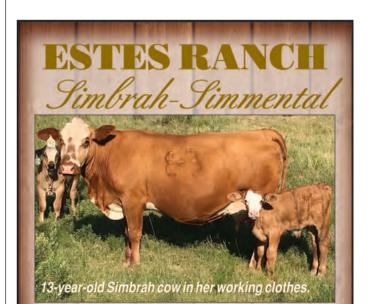


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# **BEEF IMPROVEMENT FEDERATION** 50 Years Focused on Data-based Profit Decisions



#### By Bill Zimmerman

The Beef Improvement Federation (BIF) Annual Meeting held in Loveland, Colorado June 20-23 was a celebration of 50 years since a small group of innovative beef producers and researchers conceived the idea of an organization that would "connect science and industry to improve beef cattle genetics."

Initially, BIF focused on moving from selection based on visual appraisal to performance-based selection, and standardizing performance records across breeds. From that beginning, the science of beef cattle breeding and genetics has evolved through the maze of acronyms (EBV, BLUP, EPD, DNA) to the powerful genetic selection tools we have available today. There is an amazing parallel and symbiosis between BIF and ASA - both were started in 1968 by innovative beef producers focused on the use of performance records to improve the accuracy of selection over visual appraisal. Think of the ASA motto displayed on the historic stained glass in the ASA office: "Visual analysis tells you what a Simmental appears to be . . . performance and progeny test tell you what he actually is."



In the parallel 50-year histories of ASA and BIF, many ASA members have provided leadership in BIF including many serving as BIF president, and many ASA members have been recognized by BIF for various awards. This year was no exception. ASA member Donnell Brown from Throckmorton, Texas completed his term as BIF president during the June convention; Gordon Jones, ASA member from Kentucky, was elected to the BIF board of directors; and Dr. Lauren Hyde, IGS Lead Geneticist, continues her service on the BIF board. Lynn Pelton, ASA member from Kansas, was recognized for his longtime service, receiving the 2018 BIF Continuing Service Award. Pelton served as BIF president in 2005.

The program at an annual BIF conference combines the official business of the organization — board elections and award presentations — with discussions focused on the role and application of breeding and genetics to address beef industry issues. General session speakers are chosen to provide a "big picture" and stimulate new thinking regarding beef industry issues. Detailed presentations and discussions of current research and applications are covered in the six BIF technical committees.

- Efficiency and Adaptability
- Emerging Technologies
- End-Product Improvement
- Genomics and Genetic Prediction
- Producer Applications
- Advancements in Selection Decisions

One general session this year looked at "Positioning for the Future of Beef Production" with speakers suggesting improvements in the industry focus on feed efficiency, beef product quality, sustainability, and a focus on traits we do not currently consider in most breeding programs. Addressing this last topic, Dr. Dorian Garrick, professor and chief scientist at Massey University, and a key person in the development of the BOLT software, suggested that in our genetic selection programs,

"There is inadequate consideration of reproduction, inadequate consideration of eating quality, inadequate consideration of the human healthfulness of the beef, inadequate consideration of disease resistance, inadequate consideration of feed intake and feed efficiency, inadequate consideration of lifetime performance, inadequate consideration of welfare traits such as horns, and inadequate consideration of environmental attributes such as water use, greenhouse gas emissions, or levels of effluent particularly nitrogen outputs. All of these characteristics exhibit phenotypic variation, and all are heritable, so could be included in breeding programs."

This is clearly a challenge to future commercial and seedstock producers to think more inclusively about what we are selecting for, and how to give consumers more value from the genetic and genomic tools we have available.

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S6E - Vision x Brillance



0166Y – Iron Mountain x Dream On Bred to WHF Insight



5908E - Santa Fe x Built Right



189D – Uno Mas x Lady Remington 5S Bred to SFG The Judge



Z11D - All In x Obession Bred to Wide Range



X905 – Sure Bet x Independence Bred to WHF Insight



S1E - Built Right x Missy A407



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# **BEEF IMPROVEMENT FEDERATION** 50 Years Focused on Data-based Profit Decisions

CONTINUED FROM PAGE 34

Annual Convention June 20-23, 2018

elevating the

The other general session asked, "Who Will Own Our Industry?" a question really focused on the vast amount of information collected, accumulated, and analyzed at every level of the industry. Marty Ropp, CEO of Allied Genetic Solutions and former ASA employee, provided a wake-up call in his discussion of "What I Learned from Pigs." As Ropp walked the audience through the misguided and nearsighted demise of the traditional swine seedstock industry, he said, "I am just here to tell the story. Any resemblance to the current status of the beef genetics business is not coincidental." His lesson is that we must keep focused on beef production as food production, and that science-

based decisions and profit will win over popular opinion and tradition.

> This general session concluded with a panel discussion including ASA's Dr. Wade Shafer as a panel member discussing, "Who Owns Your Data and Where Is It?" This is an important issue for many producers — commercial and seedstock. As data is collected, accumulated, and analyzed, it reveals important informa-

tion about the most profitable and sustainable production and management systems. When the information is shared and accessible to the industry, everyone can reap benefits including beef consumers and the general public. But without a structure for sharing information, it becomes proprietary, or is withheld from rightful beneficiaries. Every beef producer and organization is facing this question and dilemma.

The BIF committee on Advancements in Selection Decisions included an important discussion by Dr. Mahdi Saatchi, IGS/ASA Lead Genomicist, and Dr. Lauren Hyde, IGS Lead Geneticist, explaining how the "New IGS EPDs are Really Better." As they explained, EPDs are simply a tool to predict an observable, measurable phenotype. If one set of EPDs does a better job of predicting the phenotype, then they are a better tool for genetic selection and improvement. Saatchi explained that using the same data from the ASA database, and removing the phenotypic records from 2015 forward, he ran a parallel EPD analysis using the ASA Cornell software and using the BOLT software. He then compared the predicted phenotypes with the actual phenotypes. The correlations show a significant improvement in the accuracy of prediction for the EPDs derived with the BOLT software. So, yes, the new EPDs are really better.

The Selection Decisions committee really highlighted the IGS Multi-breed Genetic Evaluation powered by BOLT. In addition to the session with Saatchi and Hyde, Steve McGuire, ASA COO, talked about "Stitching 13 Breed Associations' Data Together." Dr. Bruce Golden, Theta Solutions, discussed the methods and models behind the IGS EPDs, and the session concluded with Dr. Wade Shafer on a panel discussing the "Trials and Tribulations of Weekly Evaluations."

A producer-focused discussion on "Getting It Right — Proper Contemporary Grouping Strategies for Beef Cattle Performance Programs" was presented by Dr. Bob Weaber, professor/cow-calf extension specialist, Kansas State University, also a former ASA employee, as part of the Genomics and Genetic Prediction committee session. Weaber provided very practical tips on forming correct contemporary groups for data collection and submission. And he showed the unintended negative effects of "stacking" contemporary data to artificially inflate performance of selected animals.

The session that really wrapped everything up into a practical toolbox was the Bull Selection Workshop presented in the Producer Applications committee by Dr. Matt Spangler, associate professor of animal science/extension beef genetics specialist, University of Nebraska; Dr. Darrh Bullock, extension professor, University of Kentucky; and Weaber. In the workshop, participants used data from actual bull sale catalogs and breed association websites to make purchase decisions of possible sires that would move their herd toward selected breeding and profit goals.

Powerpoint slides and summaries of these presentations, and many other 2018 BIF sessions can be viewed and downloaded at no charge from http://www.bifconference.com/bif2018/newsroom.html. Save the date for the 2019 BIF Convention and Research Symposium on June 18-21 in Brookings, South Dakota.



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# **INDUSTRY UPDATE**

#### **Study Finds Consumer Appetite Changing**

More than one in three US consumers are following a specific diet or eating pattern, and they are increasingly averse to carbohydrates and sugar, according to the 13th annual "Food & Health Survey," released by the International Food Information Council (IFIC) Foundation.

Given a list of diets to choose from or the option to write in a response, 36% of Americans reported following a specific eating pattern or diet within the past year — about two-and-a-half times the number (14%) of people following a specific diet in 2017, when it was an open-ended question on the survey.

The top eating pattern cited was intermittent fasting (10%). Diets considered at least somewhat restrictive of carbohydrates were well represented, including Paleo (7%), low carb (5%), Whole30 (5%), high protein (4%) and ketogenic/high fat (3%). Younger consumers ages 18-34 were more likely to follow a specific eating pattern or diet than those ages 35 and older.

More Americans than in previous years blame weight gain on carbs — specifically sugars. While sugars continue to be the most cited cause of weight gain, at 33% of respondents, carbohydrates ranked second, at 25%, up from 20% in 2017. Both of those numbers were the highest since 2011. Fats (16%), protein (3%) and "all sources" (17%) lagged behind sugar and carbs when placing blame for weight gain.

Almost all consumers are interested in getting specific health benefits from food or nutrients. However, the top two desired health benefits in 2018 changed places from 2017: This year, 20% ranked cardiovascular health as their top desired benefit, followed by weight loss or weight management at 18% and energy at 13%. In 2017, those numbers were 16%, 32% and 14%, respectively.

Nonetheless, consumers don't know, and remain confused about, how to achieve these desired outcomes: Only 38% are able to name a food they would seek out to help with their top health concern. Protein was most frequently identified (10%), followed by vegetables (7%), vitamins and minerals (5%) and fruits (4%).

#### **Dinner Plates Don't Match "MyPlate"**

What American adults believe experts recommend about which foods should fill their dinner plates isn't too far off from the actual guidance from the US Department of Agriculture's MyPlate. When it comes to what people actually eat, however, the story is much different.

USDA's "MyPlate" recommends that people fill about half of their plates with fruits and vegetables, with the rest of the plate divided up by grains (half of which should be whole grains) and protein and with dairy represented by a separate circle next to the plate. When consumers were asked which foods they believe experts recommend, they were on the mark with vegetables at 30% and fruits at 21%, while protein and grains made up the balance, at 29% and 20%, respectively.

What consumers really eat diverges from the recommendations, with protein leading the way at 38%, followed by vegetables at 29%, grains at 21% and fruits at 12%. About half (48%) said they include dairy often or always, while only 2% said they never include dairy products.

#### Farmland Trust Applauds Senate Farm Bill

The American Farmland Trust (AFT), the organization behind the national movement, "No Farms, No Food," applauds the Senate Agriculture Committee for their bipartisan draft of the 2018 Farm Bill for maintaining the Conservation Title funding baseline, making improvements to the administration of the Agricultural Conservation Easement Program (ACEP) and including support for programs that benefit next-generation farmers.

The Senate bill supports farming and farmers by maintaining funding of the Conservation Title and providing new, mandatory baseline funding for programs that assist next-generation farmers such as the Beginning Farmer and Rancher Development Program (contained in the Farming Opportunities Training and Outreach Program).

The loss of farmland to development is serious and accelerating. According to an AFT report, "Farms Under Threat: The State of America's Farmland," 31 million acres were lost to development between 1992 and 2012, nearly twice the area of farmland was lost than was previously shown. AFT has worked with state and local entities and agricultural land trusts — many of whom utilize ACEP funds — to protect over 6.5 million acres since its founding in 1980. In the next 10 to 15 years, one-third of agricultural land will change hands.

#### Eating Unprocessed Red Meat Reduces Heart Disease

Adopting a Mediterranean-style eating pattern improves heart health, with or without reducing red meat intake, if the red meat consumed is lean and unprocessed, according to a Purdue University nutrition study.

The study was published online in the American Journal of Clinical Nutrition and was funded by the beef checkoff and the pork checkoff, with support from the National Institutes of Health's Indiana Clinical & Translational Sciences Institute and a National Institutes of Health predoctoral training grant through the Ingestive Behavior Research Center at Purdue. CONTINUED ON PAGE 40 Jocused on Juture We invite you to We invite you to join us on SATURDAY, OCTOBER 20, 2018 at the farm in Starkville, MS for **THE MAGNOLIA CLASSIC 2018.** 

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# **INDUSTRY UPDATE**

Overall, heart health indicators improved with both Mediterranean-style eating patterns. Interestingly, participants' (low-density lipoprotein) cholesterol, which is one of the strongest predictors for the development of cardiovascular disease, improved with typical but not lower red meat intake.

The Mediterranean-style eating pattern, which was ranked number one by *Consumer Reports*, is recommended by the Dietary Guidelines for Americans. A Mediterranean-style eating pattern has clinically proven effects on health, especially related to heart health and risks for heart disease such as heart attack or stroke.

The composition of a Mediterranean-style eating pattern varies across countries and cultures. What is common across most Mediterranean regions is consumption of olive oil, fruit, vegetables and legumes, but protein sources depend on the particular country and geographic region. Obviously people who live on the coast will eat more seafood, but if they live inland they will eat more red meat.

#### **Farm Groups Warn Senate**

More than 600 trade organizations and companies throughout rural America have sent US Senators a clear message about crop insurance as they prepare to debate the 2018 Farm Bill.

"As you consider the 2018 Farm Bill on the Senate floor, we urge you to oppose harmful amendments to crop insurance, including those that would 1) reduce or limit participation in crop insurance, 2) make insurance more expensive for farmers during a time of economic downturn in agriculture, or 3) harm private-sector delivery," the groups wrote in a joint letter.

The signers, which range from farm groups to financial lenders, rural businesses and conservation organizations, explained their strong support for farmers' primary risk management tool. And, they noted that consumers and taxpayers benefit as well since crop insurance reduces the need for expensive, unbudgeted disaster aid packages.

"Crop insurance is food and fiber security insurance, and food and fiber security is national security," the letter concluded. "Given the importance of crop insurance, the undersigned organizations urge you to support America's farmers, ranchers, rural economies and national security by opposing amendments that would harm crop insurance." CONTINUED ON PAGE 42

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- Showcase/Classic Simmental Sale. December 8, 2018 – Mandan, ND.
- North Central Regional Classic June 11-15, 2019 – West Fargo, ND



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551SM09014 • REG: 2854458 • DOB: 2/23/2014

		т	3/4 5	SM AN	NT ID ¼ A E X TI	N		
CE	BW	WW	YW	/ MC	E Milk	k MWW	/ Stay	DOC
7.5	1.6	88.1	136.	.6 5.6	20.5	64.5	22.5	4.9
CW	YG	Ma	rb	BF	REA	Shear	API	TI
50.4	-0.48	0.1	1 -	0.111	1.16	-0.19	134.9	79.2
EPD as of	7/24/2018							

551SM09010 · REG: 2854467 · DOB: 3/20/2014

#### BLACK HAWK <sup>3</sup>/<sub>4</sub> SM AND <sup>1</sup>/<sub>4</sub> AN

CE	BW	WW T	YW M	MCE	Milk	MWW	/ Stay	DOC
16.8	-2.4	75.0 1	15.2	10.3	20.6	58.0	19.6	12.3
CW	YG	Mart	) BF	R	EA S	Shear	API	TI
43.7	-0.32	0.36	-0.04	14 1.	.10	-0.52	155.7	82.9

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			Р	URE	BRED	ITY 'oyagi		
CE	BW	WW	YW	MCE	E Mill	k MWW	/ Stay	DOC
9.3	1.0	60.2	88.5	3.6	20.4	4 50.4	16.8	6.4
CW	YG	Ma	rb E	BF	REA	Shear	API	TI
34.1 PD as of	-0.33	-0.0	06 -0.	065	0.85	-0.40	115.4	62.3

2035M09001 · REG: 2984501 · DOB: 2/11/2015

4

## CONQUEST

<sup>1</sup>⁄<sub>2</sub> SM and <sup>1</sup>⁄<sub>2</sub> AN Absolute X Shear Force

CE	BW	WW	YW	MCE	. Milk	: MWW	/ Stay	DOC
14.6	0.2	75.6	120.6	7.4	17.2	54.9	20.4	9.1
CW	YG	Ma	urb I	BF 1	REA	Shear	API	TI
45.9	-0.12	0.5	51 -0.	028	0.62	-0.42	157.6	82.4



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# **INDUSTRY UPDATE**

#### Four Food Companies Form Sustainability Alliance

Four of the nation's largest food companies have launched the Sustainable Food Policy Alliance, a new organization focused on driving progress in public policies that shape what people eat and how it affects their health, communities and the planet. Founding member companies include Danone North America, Mars Inc., Nestlé USA and Unilever United States.

The launch comes after all four, along with seven other major firms, had previously dropped their membership from the Grocery Manufacturers Association (GMA) amid philosophical disagreements in 2017.

The four founding member companies have already made broad updates to their portfolios in recent years, collectively and voluntarily advancing issues like sodium reduction, responsible marketing and transparency and reducing their impact on the planet, including by cutting greenhouse gas emissions.

In a joint statement, company leaders said, "The Sustainable Food Policy Alliance was founded on the principle that food companies can and should be doing more to lead and drive positive policy action for the people who buy and enjoy the foods and beverages we make, the people who supply them and the planet on which we all rely." The company leaders said they are committed, first and foremost, to leading by example, noting, "Each member company has independently proven a willingness to advocate for the long-term interests of the people who farm and supply our raw materials and people who make and consume our products."

They added, "With so many pressing food policy opportunities on the horizon, now is the time to help steer America's food policy and our food system on a better path for long-term success."

Member companies of the Sustainable Food Policy Alliance will prioritize US public policy advocacy and action in five key areas: consumer transparency, environment, food safety, nutrition and people and communities. At launch, two important policy areas on which the alliance intends to engage include nutrition labeling and carbon emissions.

They said they will develop and advocate for policies that help people make better-informed food choices that contribute to healthy eating while supporting sustainable environmental practices. Along the lines of consumer transparency, goals include improving the quality and accessibility of information available to consumers about the food they purchase for themselves and their families.

CONTINUED ON PAGE 44





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# **INDUSTRY UPDATE**

CONTINUED

The alliance supports a comprehensive update of the definition of terms important for people, like "healthy," including strong, sciencebased regulations on how these terms can be used on food packages and in marketing. The updates will help consumers make better choices for themselves and their families.

#### Montana Group Hopes to Save Beef Deal with China

A Montana cattle group is hoping its \$300 million beef export deal with Chinese e-commerce giant JD.com will still move forward despite the escalating US-China trade war, according to a report on China's Xinhua news service.

JD.com's pledge to buy \$200 million worth of Montana beef in the next few years has not been canceled, an executive with the Montana Stockgrowers Association told Xinhua in an interview. "We are still talking," Jay Bodner, executive vice president of the Montana Stockgrowers, was quoted as saying.

The Stockgrowers group signed a memorandum of agreement with JD.com in November. The Chinese internet retailer also committed to spend up to \$100 million to build a meat processing facility in the state.

The Trump administration recently imposed a 25% tariff on \$34 billion worth of Chinese imports. China said it would add its own 25% import tax in response, on top of an existing 12% tariff.

Bodner said his group's 2,500 members are hoping another round of proposed US tariffs announced Tuesday — 10% tariffs on an additional \$200 billion of Chinese goods — will not kill the biggest beef deal in Montana's history.

JD.com's offer to help build a slaughterhouse in Montana also represents a new potential profit center for the state's cattle industry that will eliminate costs to ship cattle to processing plants in Colorado and Nebraska, Bodner said in the interview. He added that his group's deal with JD.com might have to be scaled back if the trade war lasts longer than a month or two, according to the report.

#### FDA Becomes Involved in Lab Cultured Tissue

The Food and Drug Administration's recent day-long meeting in Washington, D.C., didn't reach any conclusions, but most parties had their say over how the nascent lab-grown animal protein products industry should be regulated. No USDA representatives were on the agenda, although they reportedly were in attendance.

Over the course of the meeting, attendees got a short course in protein biochemistry, but much of the time was spent hearing arguments over how the technology should be regulated and by whom.

To that end, Susan Mayne, director of FDA's Center for Food Safety and Applied Nutrition, made the point that, "This is not our first rodeo, so to speak, in this area."

Representatives from Memphis Meats, Finless Foods and JUST (formerly Hampton Creek) generally favored FDA oversight, while those from the conventional meat industry, including Rhonda Miller, past president of the American Meat Science Association and a professor at Texas A&M University, insisted that the lab-grown products were subject to contamination from their ingredients and manufacturing processes, just like conventional meat under the oversight of USDA's Food Safety and Inspection Service (FSIS). *CONTINUED ON PAGE 45* 

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# Industry Update

#### CONTINUED

"The samples of cultured tissue have not been available for evaluation of the safety, composition, nutritional bioavailability, functionality and sensory property to understand how it compares to meat from conventional animal production," Miller said.

Among the potential hazards are the unknown effects of temperature and time on lab-grown tissue, ph, and water activity, she said. The industry doesn't know how cultured tissue reacts in different packaging environments, or what its shelf life is under various circumstances. Research has not yet been done on whether spoilage and the growth of pathogenic microorganisms process in the same way in cultured vs. conventionally derived meat products.

In a statement, Danielle Beck, director of government affairs for the National Cattlemen's Beef Association, said, "NCBA applauds the pointed questions FDA has posed regarding risks, hazards and manufacturing methods of lab-grown meat food products. However, the appropriate agency to ask the questions under discussion today is the agency that will ultimately have jurisdiction over lab-grown meat food products. Any fair reading of the law places lab-grown meat food products within the primary jurisdiction of the USDA's Food Safety and Inspection Service."

The National Pork Producers Council said in its statement that lab-cultured tissue should be the purview of FSIS, which would require that they "comply with the same regulatory standards, including continuous inspection, process controls, antemortem and postmortem inspection of source animals and other requirements, as conventionally produced red meat and poultry products."

The question is far from being resolved. The FDA is seeking public comment on the issues raised during the meeting through September 25.

CONTINUED ON PAGE 48



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# **INDUSTRY UPDATE**

#### **Gene-edited Pigs Resistant to Virus**

Researchers at the University of Edinburgh's Roslin Institute have used gene editing techniques to produce pigs that resist the virus that causes Porcine Reproductive and Respiratory Syndrome (PRRS).

PRRS costs the pig industry around \$2.5 billion each year in lost revenue in the US and Europe alone. The disease causes breathing problems and deaths in young animals and if pregnant sows become infected, it can cause them to lose their litter.

The research team, in collaboration with global animal genetics company Genus PLC, focused on the cell surface of a receptor (CD163) where the virus attaches and removed the section, leaving the rest of the gene molecule intact. Testing of the gene-edited pigs found that they do not become infected at all with PRRS, and the animals showed no signs that the change in their DNA has had any other impact on their health or wellbeing.

PRRS is endemic in most pigproducing countries worldwide, noted the researchers in a press release. Vaccines have mostly failed to stop the spread of the virus, which continues to evolve rapidly.

Other groups have used gene editing to create PRRS-resistant pigs by removing the whole CD163 receptor. Removing only a section of CD163 allows the receptor to retain its ordinary function in the body and reduces the risk of side effects, the researchers said.

"These results are exciting but it will still likely be several years before we're eating bacon sandwiches from PRRS-resistant pigs," said Christine Tait-Burkard of the University of Edinburgh's Roslin Institute and lead author of the study.

"First and foremost, we need broader public discussion on the acceptability of gene-edited meat entering our food chain, to help inform political leaders on how these techniques should be regulated," she said. "We also need to carry out longer term studies to confirm that these genetic changes do not have any unforeseen adverse effects on the animals."

If such studies are successful, noted Tait-Burkhard, and the public accepts the technology, researchers would work with pig breeding companies to integrate these gene edits into commercial breeding stocks.

Genetically modified (GM) animals are banned from the food chain in Europe. It is not clear what regulations would apply to gene-edited animals, however, as the approach is different. GM techniques have been controversial because they can involve introducing genes of other species into an animal. In contrast, gene editing speeds up processes that could occur naturally through breeding over many generations, without introducing genes from other species. The research was co-funded by the Biotechnology and Biological Sciences Research Council and Genus PLC, is published in the Journal of Virology.

#### FSIS to Consider Country of Origin Labeling

USDA's Food Safety and Inspection Service will consider a petition calling for a change in policy in the way the phrase "product of USA" can be used on the labels of meat and poultry processed in the US, even if the meat itself is imported, the agency said in a letter posted on its website.

To that end, it is asking for public and stakeholder comments through the regulations.gov website, until August 17.

The petition, submitted by the Organization for Competitive Markets and the American Grassfed Association, specifically targets grass-fed beef. About 75% to 80% of these products sold in the US are of meat imported from Australia and South America, among other countries. The overall beef market in the US is about 9% imported meat. "Hit hardest by misbranding of US meat products are those US producers who have been transitioning their operations to grassfed beef. This market opportunity has been the one bright spot in US cattle production with sales nearly doubling annually," the petition says.

#### Cargill Part of South Korean Meat Store Chain

Cargill and Seoul-based AG Meat are partnering to launch Cargill's Excel beef in a meat store chain in South Korea that plans to open 300 units in three years.

The "It's Meat" stores will offer Cargill's Excel beef and will appeal to Korean consumers' interest in product safety, as well as quality and competitive pricing.

"Demand for safe, imported beef has increased given the price has stabilized," Jin-Tae Ha, general manager, Cargill Korea, said in a news release. "Cargill Protein is diversifying distribution channels to provide more Korean consumers access to high-quality Excel beef."

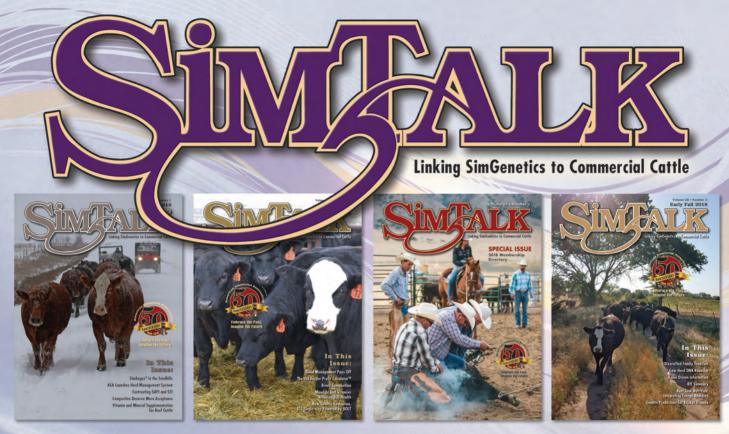
#### McDonalds Focused on Sustainable Beef in Canada

McDonald's Canada said it will be the first company in that country to serve beef from certified sustainable farms and ranches, beginning with its Angus menu lineup.

Over the next 12 months, more than 20 million Angus burgers will be sourced according to standards set by the Canadian Roundtable for Sustainable Beef (CRSB), the company said. A new CRSB logo will appear on the menu for consumers to see.

The CRSB standards for production and processing include more than 60 indicators across five principles for beef sustainability and are upheld by on-site certification audits.

CONTINUED ON PAGE 51



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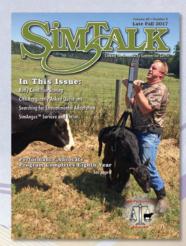
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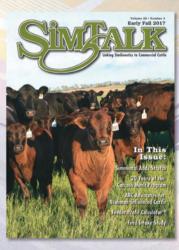


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#### ASA Publication's SimTalk Production Schedule Deadlines

	Sales Close	Ad Materials	Camera Ready	Mail Date
Late Fall 2018	Sept 21	Sept 28	Oct 9	Oct 22
January 2019	Dec 5	Dec 14	Dec 21	Jan 9
March 2019	Jan 23	Jan 30	Feb 9	Feb 24
Breeder Directory 2019	May 1	May 10	May 23	June 12
Early Fall 2019	July 23	Aug 1	Aug 12	Aug 26





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# Industry Update

CONTINUED

#### Beef-based Meal Kits Available Nationwide

Fresh beef meal kits are available in 1,500 grocery stores across the country, the result of a partnership between American Foods Group and the Beef Checkoff program. The four meal kit options feature raw, USDA Choice beef along with other ingredients and will carry the "Beef. It's What's For Dinner" slogan.

The partners said the kits create a "complete beef meal featuring globally inspired flavors that consumers crave." The kits are found in the fresh meat department, are priced between \$12.48 and \$17.99, and feed four to six people. Cooking time is less than 30 minutes.

#### University of Wyoming Logo Called Racist

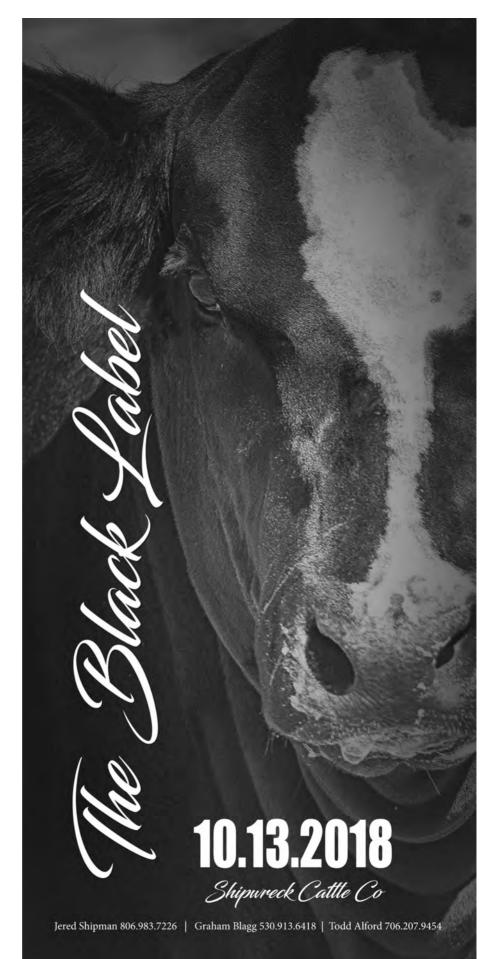
A new slogan at the University of Wyoming — "The world needs more cowboys" — is drawing criticism as racist, sexist and counterproductive to recruiting out-of-state students.

Associate professor Christine Porter told the *Laramie Boomerang* the new slogan evokes images of stereotypical western icons in the minds of some faculty and misrepresents UW's research and educational goals.

"I care most about our university having a slogan that makes all people feel welcome here," Porter said. "That's what I care most about. I also care about us not embarrassing ourselves as an institution across the nation. However proud this state is of our cowboy tradition, it just does not translate outside the Rocky Mountain West."

The objections are two-fold. Porter said the slogan both fails to be inclusive and fails to accurately represent UW to those outside Wyoming. "For me, the clearest reason it's unacceptable is the word 'boy,' excluding anyone who identifies as female," she said.

CONTINUED ON PAGE 52





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**INDUSTRY UPDATE** 

The UW Committee on Women and People of Color also object to the new slogan. The organization wrote a letter to UW Director of Communications Chad Baldwin and University President Laurie Nichols, asking them to "shelve that slogan and find another one that represents the diversity of people and cultures that we have, and want to have, at UW."

Faculty Senate Chair Donald O'Toole told the Boomerang he shared Porter's concern about the baggage that so often comes with the term "cowboy" thanks to media depictions. "It means someone who just kind of takes risks and can sometimes be a knucklehead," he said. "Now, that's not how cowboys are seen here, but the university really needs to balance the positive image that cowboys have here with the possibly negative image that cowboys may have elsewhere in the country, especially if they're interested in bringing in a higher proportion of out-of-state students."

The slogan is part of a \$1.4 million investment to advertise to prospective students in and outside Wyoming. The University paid a Colorado marketing firm \$500,000 to develop the campaign.

#### Global Food Insecurity Expected to Drop

Food security in 76 low-income and developing economies worldwide is expected to improve notably between 2018 and 2028: The share of the food-insecure population is expected to fall to 10.4% in 10 years from 21.1% now; the number of food-insecure people is projected to fall to 446 million from 782 million in the next decade; and the food gap — the amount of food required to allow all food-insecure people to reach the caloric target of 2,100 calories per person per day — is projected to decline to 24 million tons from 36 million tons. This is according to a new report from USDA's Economic Research Service, "International Food Security Assessment, 2018-2028."

In an executive summary, researchers note that gains in food security are expected to vary across regions. In Asia, where income growth is strong, the share of the food-insecure population is projected to decline to 4.7% in 2028 from 16.6% in 2018. The challenge is greater in Sub-Saharan Africa, a region where 35.3% of its population is food insecure today, and 24% are expected to be still food insecure in 2028.

In Latin America and the Caribbean (LAC), the share of the population that is food insecure is projected to drop to 9.5% in 2028 from 19.5% in 2018. Food security is also projected to improve for North Africa, the most food-secure region in the study. There, the share of the population that is food insecure falls to 2.3% in 2028 from 4.9% in 2018, the report predicts.

The ERS demand-oriented International Food Security Assessment (IFSA) model projects food consumption (food demand) and food gaps in 76 low-and middle-income countries through 2028. Food security is evaluated for each country by estimating the share of the population unable to reach a caloric target of 2,100 calories per person per day.

Average per capita food consumption data are from the United Nations' Food and Agriculture Organization (FAO) Food Balance Sheets and FAO's cereal balances. Observed domestic prices are from FAO's Global Information Early Warning System (GIEWS) database. Tariff data are from the World Bank World Integrated Trade Solution (WITS). Incomes, exchange rates and Consumer Price Indexes (CPI) are from the ERS International Macroeconomic Dataset. World prices are from USDA's Agricultural Projections to 2027.

#### **Device Senses Meat Spoilage**

Scientists report that they have developed a wireless tagging device that can send signals to smartphones warning consumers and food distributors when meat and other perishables have spoiled.

In a study appearing in the American Chemical Society's journal Nano Letters, scientists from the University of Texas at Austin and Nanjing University in China said they created a nanostructured, polymer-based gas sensor that can detect substances called biogenic amines (BAs), which give decomposing meat its odor.

The scientists embedded the sensors into near field communication (NFC) devices placed next to meats. NFC devices wirelessly transmit information over short distances. They are similar to the radio frequency identification products retailers use to track inventory and shipments.

After the meats had been stored for 24 hours at 86 degrees Fahrenheit, the researchers found that the gas sensors successfully detected significant amounts of BAs. The sensors then switched on the NFCs so they could transmit the information to a nearby smartphone.

"The gas sensor enables a smartphone to readout meat spoilage when the concentration of biogenic amines is over a preset threshold. We envision the broad potential use of such intelligent sensing for food status monitoring applications in daily life, storage and supply chains." the researchers said in the study abstract.

#### Critics Respond to Sustainable Beef Framework

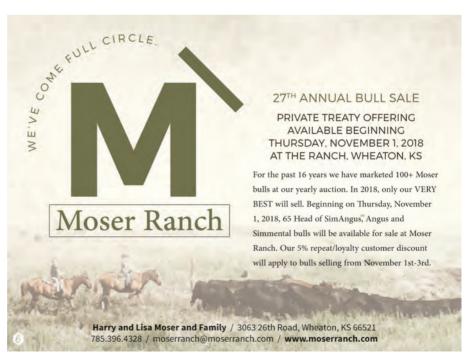
In a detailed letter to the US Roundtable for Sustainable Beef (USRSB), critics claim the platform presented for review earlier this year fails to "address key structural issues related to sustainability and the most damaging impacts of the cow-calf and feedyard phases of production."

Fifty organizations signed on to the letter, including the National Grassfed Organization, Earthjustice, the Sierra Club, GMO Free USA, Friends of the Earth, Food and Water Watch, several Catholic organizations, and the Organization for Competitive Markets.

The letter states the USRSB platform "will not help the US beef sector - either individual producers or the entire industry - realize its great potential to minimize the severe environmental, climate, public health, animal welfare and other impacts of poorly managed cow-calf and feedvard operations."

The framework is a set of resources, developed over more than three years, to help the supply chain from ranchers to retailers continuously improve the sustainability of US beef. The comment period ended July 1.

According to the USRSB, the framework highlights key areas important to the sustainability of beef and examines unique opportunities for each segment of the beef value-chain to identify opportunities to improve and reflect on their individual progress. Most importantly, the Framework is not a onesize-fits-all approach. It is designed to address the needs of the diverse beef communities who produce, buy and sell beef. **CONTINUED ON PAGE 56** 





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CE 14.5	BW 1.3	WW 74.4	YW 119.5	MCE 8.6	MILK 27.7	STAY 20.2
DOC	CW	YG	MARB	REA	API	TI
11.3	19.5	-0.31	0.28	0.44	154.8	81.2



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CE	BW	WW	YW	MCE	MILK	STAY
16.3	-0.5	78.9	122.7	10.4	19.3	18.7
DOC	CW	YG	MARB	REA	API	TI
18.1	48.0	-0.38	0.28	1.16	147.8	81.3



YW 113.6 MCE 6.5 MILK 34.7

71

TJ High Plains 986E

WW 79.8

ASA 3288842 PB SM

BW 0.2

CE 14.1 Cutti

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CE	BW	WW	YW	MCE	MILK	STAN
12.7	2.0	75.2	116.0	8.1	25.8	19.3
DOC	CW	YG	MARB	REA	API	TI
11.5	34.6	-0,34	0.17	0.85	143.0	77.5

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## **INDUSTRY UPDATE**

The key areas identified by the USRSB as being important to the sustainability of beef are referred to as High-Priority Indicators. These include: animal health and well-being, efficiency and yield, employee safety and well-being, land resources, water resources, and air and greenhouse gas emissions. Sustainability Metrics and Sustainability Assessment Guides serve as the segment-specific elements of the Framework tailored to address the unique challenges in the cow-calf, cattle auction market, feedyard, packer and processor, and retail and foodservice sectors.



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However, the critics of the framework stated in the letter on June 27, 2018, "Most of these benefits are generated by well-managed grass-based and grass-finished livestock systems — yet the framework does not explicitly recognize, incentivize or otherwise support these far more sustainable grass-based and grass-finished systems."

While supporting grass-based livestock systems, the critics also denounced what they described as USRSB's "failure to address the consolidated structure of the US beef marketplace, which depresses producer prices for conventional meat and keeps sustainable beef from being produced and reaching consumers."

#### E. coli Model for Beef

Scientists from the US Department of Agriculture, Agricultural Research Service, Eastern Regional Research Center (USDA ARS ERRC) have developed a validated one-step dynamic analysis method that can be used to predict the shelf-life of ground beef and conduct risk assessment of *E. coli* 0157:H7 and non-0157 Shiga-toxin *E. coli* (STEC).

Investigators looked at the growth of *E. coli O157:H7* in irradiated and non-irradiated raw ground beef under competition from background flora. Samples were tested under dynamically changing temperature conditions. The one-step dynamic analytical method was created to describe and determine whether or not the pathogen's growth was significantly affected by background flora.

Results showed that background flora reduced the growth rates of *E. coli O157:H7* by approximately 18%. The findings also suggest that the growth kinetics of *E. coli O157:H7* and *non-O157 STEC* may be similar in ground beef.

#### Environmentalists Criticize Meat Alternatives

A new report from Friends of the Earth calls into question the environmental benefits attributed to meat analogs and lab-grown animal products, and emphasizes the need for more research.

"Second-generation, lab-created animal protein replacement products are not yet proven to be safe or sustainable by regulators or via transparent, independent third-party assessments. Rather, there are increasing concerns and questions that remain unanswered, and existing analyses show that these products may be problems masquerading as solutions," the report said.

While plant-based meat analogs or lab-grown tissue may mean fewer animals slaughtered, the organization pointed out that their complicated make-up (more than a dozen ingredients); the need for additional crops, such as sugar cane, to provide necessary inputs; and the use of genetically modified ingredients in some cases are cause for concern.

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"We are glad to be part of the CMP program. It provided us with top quality calves while we get to participate in improving Simmental genetics."

> John Hall, Ph.D., Professor and Extension Beef Specialist and Superintendent at University of Idaho Nancy M. Cummings REEC.

#### Would you like to get paid to use some of the most promising young bulls in the industry? Do you have accurate and consistent record keeping? Then we have the program for you!

The ASA is seeking additional cooperator herds for the Carcass Merit Program. Spring or Fall calving herds are welcome.

#### **Incentives for Cooperators**

- Free semen from the industries top herd sire prospects
- All cows in herd will be put in ASA's database which will provide EPDs for every female. This allows you to make selection and culling decisions within the cowherd based on EPDs.
- You have the option to retain all or some of the females produced from the program
- ◆ ASA will pay \$60/AI sired carcass that is harvested
- Cooperators will get carcass data back on all the calves harvested through the program.
- A portion of the CMP calves have feed intake collected and records shared with the cooperators.

#### How does it work?

- ASA assigns all matings in a random fashion so that the test produces unbiased, accurate results.
- ◆ ASA will work to provide bulls that fit the general criteria of your herd. However ASA must use only bulls that are enrolled in the program.
- At least two sires will be used per contemporary group and ASA likely will use several sires per contemporary group to provide better more accurate test results.
- Only bulls with high calving ease EPDs are used on heifers.

#### Qualifications

- 1. All cows will be individually identified along with birth year and approximate breed makeup
- 2. Collect birth weights, calving ease scores, and weaning weights on CMP sired calves
- 3. Beneficial but not required have a current AI program established
- 4. Must commit to collecting carcass data

Contact Jackie Atkins, Jannine Story or Luke Bowman for more information at 406-587-4531.

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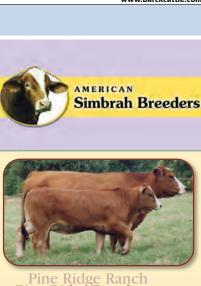
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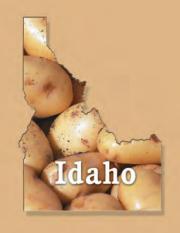
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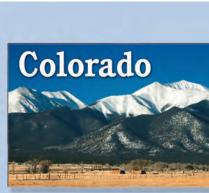
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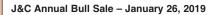


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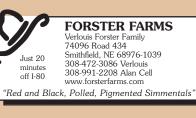




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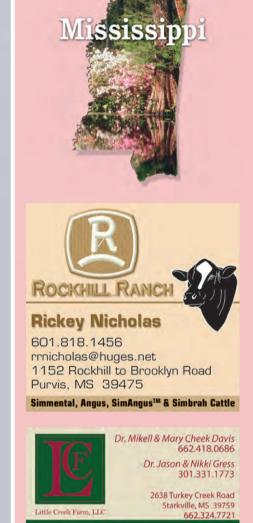
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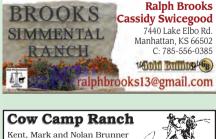
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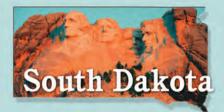
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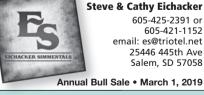
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# CALENDAR

#### AUGUST

- 4th Annual Alabama/Mississippi Association's Female Sale Uniontown, AL
   Generations of Value Colbert, GA
- 25-28 LMC GenePlus Online Sale XX www.lamuncacattle.com

#### SEPTEMBER

- 1 Four Starr Simmentals' 1st Annual Production Sale Eugene, MO
- 1 NC Fall Harvest Sale Union Grove, NC
- 8 B&B Farms' Complete Herd Dispersal Sale Clinton, NC (pg. 31)
- 8 Silver Towne Farms' 32nd Annual Production Sale Winchester, IN
- 15 Family Matters Sale Auburn, KY (pg. 35)
- **15** Heart of Texas Simmental/Simbrah Association Online Sale www.texassimmentalsimbrah.com (pg. 6)
- 15 Houck Rock Creek Ranch's Fall Private Treaty Bull Sale Allen, KS
- 16 Illini Elite Simmental Sale Shelbyville, IL (pg. 21)
- 19 Gonsalves Ranch Bulls Eye Breeders Angus & SimAngus™ Bull Sale Modesto, CA (pg. 45)
- 22 Head of the Class Sale Louisburg, KS
- 22-23 Synergy XI Giddings, TX
  - 24 LRW Simmental's Genetic Harvest Sale Janesville, WI
  - **27** Beef Solutions Bull Sale Ione, CA (*pg.* 7)
  - 28 World Simmental Fleckvieh Congress Sale Fort Worth, TX (pg. 67)
  - 29 Ferguson Show Cattle's Production Sale Jefferson, OH (pgs. 12-13)
  - 29 Grass-Lunning Simmental's Complete Dispersal LeRoy, MN (pg. 65)
  - 29 Martin Farms' "Open House at the Farm" Sale Lyles, TN (pg. 73)

#### **OCTOBER**

- 1 Tingle Farms' Final Chapter Dispersal New Castle, KY
- 2 Koz-E-Acres Female Sale www.sconlinesales.com
- **3** Halfman-Beckton Red Angus Sale Miles, TX
- 5 Factory Direct Sale West Lafayette, IN
- **5** Trinity Farms' 1st Annual Generations of Excellence Female Sale Ellensburg, WA
- 6 Belles of the Bluegrass Campbellsburg, KY (pg. 37)
- 6 Buckeye's Finest Sale Zanesville, OH (pg. 43)
- 6 Legends of the Blue Ridge Sale Atkins, VA
- 7 Field of Dreams Production Sale Hope, IN
- 7 Krieger Farms' Annual Sale Universal, IN
- 7 Wisconsin Simmental's Midwest Fall Roundup Lancaster, WI
- 9 Greater Pacific Online Simmental Sale www.dponlinesales.com
- 10 R.A. Brown Ranch's 44th Annual Fall Sale Throckmorton, TX (pg. 33)
- 12 Udell Cattle Company's 2nd Annual Production Sale Sioux City, IA
- 13 New Direction Sale Seward, NE (pg. 62)
- 13 The Black Label Sale Grandview, TX (pg. 51)
- 14 Ladies of the Valley Sale West Point, NE (pg. 62)
- 14 Red River Farms' Inaugural Production Sale Grand Saline, TX (pg. 59)
- 15-16 Oktoberfest at Windy Ridge Simmentals www.dponlinesales.com
  16 White Farms' Online Sale www.firstchoiceonlinesales.com (pg. 44)
  - 19 Buckles and Banners West Point. IA
  - 20 Fred Smith Company Ranch Extra Effort Sale Clinton, NC (pg. 57)
  - 20 Indiana Performance Bull Test Sale Springville, IN
  - 20 Midwest Made Sale Prairie City, IA
  - 20 MN Beef Expo-White Satin on Ice & All Breeds Sale Minneapolis, MN
  - 20 The Magnolia Classic Starkville, MS, 39
  - 20 Tennessee Fall Showcase Lebanon, TN
  - 23 Top Hat & Tails Online Heifer Sale www.cwcattlesales.com
  - **26** 24th Annual Hokie Harvest Sale Blacksburg, VA
  - **27** 7P Ranch's 43rd Annual Production Sale Tyler, TX (*pg. 25*)
  - 27 Clear Water Simmentals' 1st Annual Production Sale Milan, IN
  - **27** Michigan Simmental Association's 5th Annual Fall Sale St. Louis, MI
  - 27 Pennsylvania Fall Classic Sale Waynesburg, PA
  - 27 Red Hill Farms' "Bulls of Fall IV" Sale Lafayette, TN (pg. 76)
  - 27 Yon Family Farms' Fall Sale Ridge Spring, SC

#### **NOVEMBER**

- 1 Moser Ranch's 27th Annual Bull Sale Wheaton, KS (pg. 53)
- 2 High Ridge Farms' Genetic Opportunity Sale Albemarle, NC
- **3** Hawkeye Simmental Sale Bloomfield, MN
- 3 Irvine Ranch 14th Annual Production Sale Manhattan, KS (pg. 54)
- **3** Land of Lincoln 19th Annual Sale Altamont, IL
- 3 Pigeon Mountain Simmental's Fall Bull Test Sale Rome, GA
- 4 Triangle J Ranch's Female Sale Miller, NE (pg. 32)

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# ALENDAR

#### NOVEMBER (Cont.)

- 5 Hanel Black Simmental Female Sale Courtland, KS
- Deer Creek Farm's Annual Bull and Heifer Sale Roseland, VA 10
- 10 Gibbs Farms' 13th Annual Bull and Replacement Female Sale — Ranburne, AL
- 10 MM Cattle Co. and Moriondo Farms' Production Sale - Mount Vernon, MO
- NAILE Select Sale Louisville, KY 12
- Heartland Simmental Performance with Class Sale Waverly, IA 16
- 17-19 2nd Annual Hillstown Farms Online Sale - www.dponlinesales.com 17 Best of Both Worlds Sale - Newark, OH
  - 17 Gateway Genetics' Saturday Night Live Sale - Martell, NE
- LMC and Friends "Giving THANKS" Online Donation Sale V -17-20 www.lamunecacattle.com
  - 17 Southwest Cattleman's Classic — Wytheville, VA
  - Timberland Cattle's Fall Bull Sale Vernon, AL 17
  - Value By Design Female Sale Anita, IA 17
  - 17 Whelan Farms' Southern Excellence Bull Sale - Wadley, AL
  - North Central Simmental Fall Classic Hubbard, IA 18
  - 23 Ruby Cattle Co "Livin' The Dream" Production Sale - Murray, IA
  - 24 Foxy Ladies Bred Heifer Sale — West Point, NE (pg. 62)
  - 24 The Event Vol. IV — Tecumseh, NE
  - Trennepohl Farms' Right By Design Sale Middletown, IN 24
  - Chestnut Angus Female Sale Pipestone, MN 25
  - 26 White Farms' Online Sale — www.firstchoiceonlinesales.com (pg. 44)

#### DECEMBER

- 1 Hoosier Beef Congress Show and Sale Indianapolis, IN
- Jewels of the Northland Clara City, MN 1
- Missouri Simmental's Fall Harvest Sale Springfield, MO
- Montana's Choice Sale Billings, MT 1
- Next Step Cattle Company's 6th Annual Bull Sale Livingston, AL 1
- T-Heart Ranch's High Altitude Female Sale LaGarita, CO (pg. 60) 1
- Genetic Perfection Sale Fremont, NE 3
- 7th Annual Strickland-Driggers Bull Sale Glennville, GA 8
- 8 Hartman Cattle Company's Customer Appreciate Sale — Tecumseh, NE
- North Alabama Bull Evaluation Sale Cullman, AL 8
- 8 North Dakota Simmental Association's Simmental Classic Sale -Mandan, ND (pg. 40)
- 8 Southern Cattle Company's Annual Bull Sale — Marianna, FL (pg. 1)
- Southwest Showcase Sale Crockett, TX 9
- Trauernicht Simmental Nebraska Platinum Standard Sale Beatrice, NE 9
- 15 Pride of the Prairie Sale Chandlerville, IL
- 15 South Dakota Source Sale Mitchell, SD
- 26-27 St. Nick's Eggstravaganza www.dponlinesales.com

#### **JANUARY 2019**

- 19 University of Florida Bull Test Sale Greenwood, FL
- National Western "The One-Volume XXVI" Sale Denver, CO 21
- 22 Wild Wild West Simmental Sale - Brighton, CO
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- Sioux Empire Farm Show and Sale Sioux Falls, SD Ellingson Annual Production Sale Dahlen, ND (pg. 61) 25
- 26 Double J Farms Sale — Garretson, SD (pg. 64)
- 26 J&C Simmentals' Annual Bull Sale - Arlington, NE (pg. 62)
- 27 Triangle J Ranch's Bull Sale — Miller, NE (pg. 62)
- APEX Cattle's Heterosis Headquarters Bull and Female Sale -28 Dannebrog, NE (pg. 27)
- 31 Black Hills Stock Show and Sale - Rapid City, SD

#### FEBRUARY

- Kunkel Simmentals' Annual Bull and Bred Female Sale New Salem, ND 1
- 2 Hilltop Simmental's 6th Annual Turn In Bull Sale — Sioux Center, IA
- Prickly Pear Made In Montana Sale Helena, MT (pg. 72)
- 2 Springer Simmental's Value Based Genetics Sale - Decorah, IA
- 3 Hartman Cattle Company's Simmental Bull Sale — Tecumseh, NE
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- 7 Hart Simmentals' Beef Builder Bull Sale - Frederick, SD
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- Bata Brothers 22nd Annual Bull Sale Rugby, ND
- Hook Farms Bred For Balance Sale Starbuck, MN (pg. 69) 8
- TNT Simmentals' 34th Annual "Genetic Explosion" Sale Almont, ND (pg. 61) 8

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# Prickly Pear Simmental Ranch

Made In Montana Annual Bull Sale

## February 2, 2019

At the Ranch - Helena, Montana 70 Bulls • Simmental • SimAngus™

Sons and Daughters also sell out of Hook's Black Hawk 50B, J-J Zinser, Hook's Beacon, PPSR Heavy Duty and Mill Bar Hickok

Females sell in the December 1, 2018 Montana's Choice Sale

#### **DVAuction**

Cattle Manager, Troy Wheeler 406-949-1754 • wheels@mt.net Don and Nancy Burnham Gary Burnham • 406-439-2360 • ppsranch@gmail.com 2515 Canyon Ferry Road • Helena MT 59602 ASA Charter Member No. 174



nuu	V 2 1	SIGCI	Ла	WK JC	0
CE	BW	WW	YW	ADG	MCE
17	-2.4	75	115	. <b>25</b>	10
Milk	MW		DOC	CW	YG
21	58		12.4	43.5	32
MB	BF		REA	\$API	\$TI
. <b>37</b>	0		1.10	<b>156</b>	<b>83</b>

#### CCR Wide Range 9005A

_	_		-	
BW	WW	YW	ADG	MCE
0 0	70	124	28	8
0.0	15	164	.20	U
MW	W	DOC	CW	YG
5		16 1	20.2	37
Ju	,	10.1	39.2	37
B		REA	\$API	\$TI
0	3	1.33	126	74
	0.0 MW 55	0.0 79 MWW 55 BF	0.0 79 124 MWW DOC 55 16.1 BF REA	0.0         79         124         .28           MWW         DOC         CW           55         16.1         39.2           BF         REA         \$API





#### S A V Bruiser 9164

CE	BW	WW	YW	ADG	MCE
<b>16</b>	-1.9	80	130	.32	<b>11</b>
Milk	MW		DOC	CW	YG
<b>19</b>	59		<b>11.5</b>	<b>39.1</b>	. <b>080</b>
MB	BF		REA	\$API	\$TI
.54	. <b>0</b> 4		. <b>49</b>	<b>133</b>	<b>76</b>

EPDs as of 7.27.18

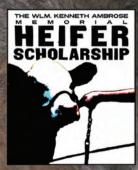
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Neil Martin [h] 931-670-3646 [c] 931-623-2634

Christopher Martin [c] 931-580-6821



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

- ASA Members will receive one 50% off price discount for Low Density DNA testing for each carcass or feed intake record submitted.
- Records must be valid for use in ASA's genetic evaluation.
- All breeds and composites eligible if sire is registered in ASA multibreed database.
- Applies to animals born after August 31, 2015.
- Carcass Merit Program calves do not qualify.

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# Looking at Me? It's ok. Everybody Is.

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

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

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- MARC GPE Progress Report No. 22, USDA

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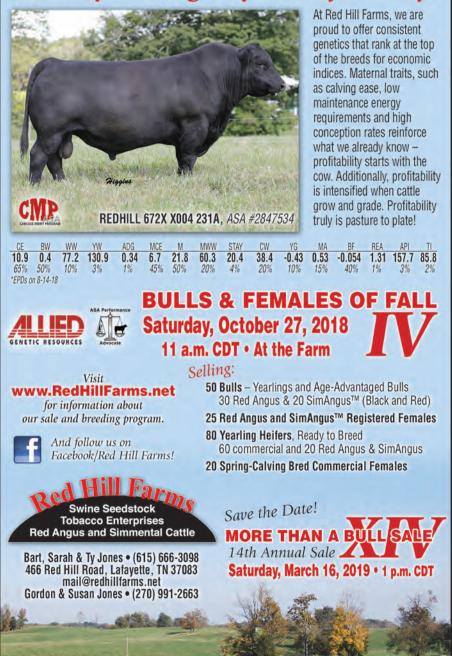
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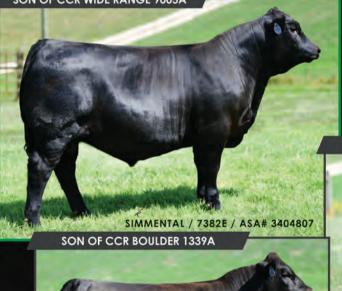


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