Dear Friends,

It’s hard to believe that fall is upon us. We hope you had a great summer and enjoyed some special family time. Here at STgenetics®, we have continued to build our infrastructure and add qualified sales representatives throughout the country to better serve your needs as our valued customers.

Our corporate mission revolves around the philosophy that “The best way to predict the future is to Create It.” To this end, we are working hard to develop new and improve existing technologies that help you more precisely control and shape the future of your herds and, ultimately, your futures. We want to make sure we provide you with the tools you need to ensure your success.

Producers across the country have used our new SexedULTRA 4M™ high fertility sex-sorted semen with great success in a variety of scenarios and production models. SexedULTRA 4M™ offers 4 million cells per straw, which is double the number in our original SexedULTRA™ products. There are few things more rewarding than hearing from our many satisfied customers who have used™ semen products to reach their production goals and enhance their bottom lines. We are honored to serve you and hope you will let us know if there is anything we can do to assist you in your operations. Have a great fall and please stop by and say hello when you see us at upcoming events.

BEEF BULL INDEX

**ANGUS**

<table>
<thead>
<tr>
<th>Bull Name</th>
<th>Sire</th>
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<th>Birth Year</th>
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**RED ANGUS**

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<td>GW FREEDOM 392C</td>
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<td>CHR SANJIROU 541</td>
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<td>CHR SHIGESHIETANI 542</td>
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**GRAY BRAHMAN**

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<td>JTB ERWIN 686-381/1</td>
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<td>JDH Sir GARLAN Manso 487/7</td>
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<td>+JDH Sir JEROME Manso 224/4</td>
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<td>Mr. KALLION 1352</td>
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**RED BRAHMAN**

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<td>3X-HK Mr. 966 PARALLEL</td>
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<td>HK Visi VOLUNTEER 244</td>
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<tr>
<td>+Mr WINCHESTER Magnum 999/3</td>
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<td>1976</td>
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</table>
Testimonials

SexedULTRA™ semen from STgenetics® has been very beneficial to the in-vitro, embryo transfer and AI programs for Hillhouse Angus. Our experience with SexedULTRA™ semen has shown that it is as potent and viable as conventional frozen semen. We’ve seen no difference in our conception rates using SexedULTRA™ semen.”

Steve Hillhouse
Hillhouse Angus, LaGrange, TX

“We have been very pleased with the conception and fertilization rates using SexedULTRA 4M™ semen in our AI and ET programs over the last year. Our fertilization rate in our ET mirrored conventional semen. We love that it gives us a sexed option in our conventional ET. This allows us to take advantage of better conception of conventional embryos while still sexing the calves.”

David Burns
Burns Farms, Pikeville, TN

“We have been very pleased with the conception and fertilization rates using SexedULTRA™ semen in our AI and ET programs over the last year. Our fertilization rate in our ET mirrored conventional semen. We love that it gives us a sexed option in our conventional ET. This allows us to take advantage of better conception of conventional embryos while still sexing the calves.”

Dimitri Mataragas
Iron Lake Ranch, Athens, TX

“The availability of sexed semen has changed the economics of our program. It is vital to our goal of producing top-quality purebred and F1 females.”

Darrell Silveira
Silveira Brothers, Firebaugh, CA

“We have used sexed semen in our embryo program for the last four years with very good results. Our goal is to produce elite show heifers from our top donors and the ability to determine sex is paramount for us. Sexed semen will continue to be an important part of our operation.”

Dr. Les Anderson
University of Kentucky, Lexington, KY

“Controlling sex ratio is the next step for cattlemen to improve efficiency. Having the ability to generate females using a maternally-oriented sire on a small population of your better cows and steers from terminally-oriented sire on the remaining cows in your herd. Maximum efficiency in productivity is possible through the use of gender sorted semen.”
Angus

Reg: AAA 18156972

TREASURE

203AN01447
MGR Treasure

Treasure is arguably the most exciting sire to sell in recent years and is truly a rare and valuable “Genetic Treasure.”

Only once in several years does an individual come along with Treasure’s blend of genetic profiles in tandem with near flawless phenotype and structure.

Use Treasure to take your breeding program to the next level with many traits in the top 5% of the breed without sacrificing sheath, scrotal or foot quality.

His EPD script reflects a hard-to-find genomic combination plus incredible individual performance that includes a 131 IMF ratio.

EPD as of 8/3/2017

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<th>Carcass</th>
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V A R Discovery 2240

SJH Impression of 6108 1614

Tattoo: 5017
Born: 1/17/2015
Birth Wt: 75 lbs
Weaning Wt: 843 lbs

From: Rutherford Ranches, TX
RAINDANCE

Reg: AAA 18578965
551AN01485
S A V Raindance 6848

Angus
RAINDANCE
Reg: AAA 18578965
551AN01485
S A V Raindance 6848

Raindance Raindance Dam: SAV Blackcap May 4136

Raindance and his flush brothers have been the talk of the industry since setting records at the 2017 SAV bull sale.

Proclaimed by many as the pick of the flush, Raindance has separated himself with impeccable phenotype and the one Kelly Schaff plans to use heavily.

Raindance combines the outcross maternal sire Charlo with Blackcap May 4136, best known as the dam of SAV Resource.

Raindance is now available in conventional and SexedULTRA 4M™ female and male semen.

Coleman Charlo 0256
O C C Paxton 730P
Bohi Abigale 6014
S A V 8180 Traveler 004
S A V May 2397

Tattoo: 6848
Born: 1/11/2016
Birth Wt: 78 lbs
Weaning Wt: 1053 lbs

From: Schaff Angus Valley, ND

SexedULTRA 4M™ Available

EPDs as of 8/3/2017

<table>
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<th>Carcass</th>
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<td>%</td>
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**Black Onyx**

Reg: AAA 18463791

Black Onyx was a big winner in the transition to single step genomics. No other young sire at his level of calving ease can match his performance and carcass combination.

- He is the highest growth Black Granite son under +1.0 for BW and he’s out of a full sister to Rampage.
- If you are looking for a uniquely bred sire that checks all the boxes, Black Onyx is your bull: Calving Ease, Performance and Indexes.

**EPDs as of 8/3/2017**

<table>
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**Connealy Black Granite**

- Connealy Consensus 7229
- Eura Elga of Conanga 9109
- MCC Daybreak
- QHF Blackcap 6E2 of 4V16 4355

**Wilks Blackcap 0D82**

- Yearling Wt: 1250 lbs
- Yearling SC: 36.8 cm
- Yearling Frame: 5.9

**Tattoo:** 5Q11

**Born:** 9/21/2015

**Birth Wt:** 77 lbs

**Weaning Wt:** 692 lbs

**From:** Quaker Hill Farm, VA, and Wild Wind Angus, VA

SexedULTRA™ Available
Angus

Reg: AAA 18066037

LEGEND

V A R Legend 5019

Tattoo: 5019
Yearling Wt: 1542 lbs
Yearling SC: 40.2 cm
Yearling Frame: 6.2

- Legend was the Lot 1 featured bull from the 2016 VAR bull sale that has all the mass and substance necessary to back up his incredible performance predictions.
- Bold ribbed with a big square hip, use Legend to add muscle, performance and Angus character with a breed-leading EPD package.
- His dam is an impressive maternal powerhouse which has a progeny sales averaging $31,000 at VAR.

<table>
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V A R Discovery 2240
PF CC&7 Henrietta Pride 1044

A A R Ten X 7008 S A
Deer Valley Rita 0308
SydGen C C & 7
Sitz Henrietta Pride 643T

Tattoo: 5019
Born: 1/7/2015
Birth Wt: 77 lbs
Weaning Wt: 811 lbs

From: Vintage Angus Ranch, CA,
and Lisonbee Angus Ranch, UT

SexedULTRA4 Available

Full Sister to Legend
Dam: PF CC&7 Henrietta Pride 1044
MGD: Sitz Henrietta Pride 643T

EPDs as of 8/3/2017
**APACHE**

Reg: AAA 18194405

Quickly becoming a favorite in our lineup, Apache’s first calf crop is solidifying his merit as a heifer safe sire with standout performance and loads of phenotype to the calves.

- Apache has a bulletproof maternal stack out of a beautiful uddered Boulder daughter from the great Caroline cow family.
- As their lot 1 bull in 2016, Musgraves described Apache as: “... a unique blend of style, structure, durability and muscle. One of the best from Aviator.”

<table>
<thead>
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<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<td>20 20 1</td>
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**POWERPOINT**

Reg: AAA 18159093

Powerpoint is the uniquely bred Lot 1 bull from Spickler Angus by Tehama Revere who excelled in the transition to single-step genomics.

- His Summit x Queen Essa dam is tidy uddered, small teated with her first three calves at 98 for BW, 110 for WW and 110 for YW.
- Powerpoint is well sampled with 2017 calf crops in the Spickler and Ellingson programs.

<table>
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<th>Carcass</th>
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</table>
Angus

Reg: AAA 18543019
HOMESTEAD
551AN01484
Ellingson Homestead 6030

• Homestead was the crowd favorite and record selling bull at Ellingson’s 2017 sale, representing an opportunity to truly outcross to most pedigrees while improving function and longevity traits.
• He is a balanced trait sire with 10 traits in the top 15% or higher and considerably betters his sire for SC EPD.
• His dam is a Territory daughter whose undiscovered and prominent line of cattle represent the best females of the Ellingson program.
• Homestead’s prolific dam has had three calves indexing 94 for BW, 110 for WW and 105 for YW.

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<th>Carcass</th>
<th>$ Value</th>
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<tr>
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<td>20</td>
<td>10</td>
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CTS Remedy 1T01
EA Erica 1082

Tattoo: 6030
Born: 2/20/2016
Birth Wt: 74 lbs
Weaning Wt: 925 lbs
From: Ellingson Angus, ND

Connealy Thunder
CTS 7V03 Bellemere Maid 9T02
LT Territory 5824 of EA
S A V Alliance 2606

Yearling Wt: 1640 lbs
Yearling SC: 39.5 cm
Yearling Frame: 6.1

SexedULTRA™ Available

Territory Daughter
Territory Daughter
Territory Daughter
• Capstone offers multi-trait balance with a genetic profile that avoids extremes and offers a composite of valuable traits.
• You can’t write a better maternal pedigree. Capstone is the kind of bull to build a herd around!
• He combines the maternal excellence of Capitalist with a tremendous Rainmaker 11127 daughter whose production record is 3@94 BW, 3@113 WW, 2@112 YW, 2@107 IMF and 2@105 REA. His grand dam had 11@94 BW and 11@110 for WW.

Reg: AAA 18283184

CAPSTONE

Connealy Capitalist 028
Hilltop Shauna 176

Tattoo: 5374
Born: 2/21/2015
Birth Wt: 76 lbs
Weaning Wt: 714 lbs

From: Hilltop Angus Ranch, MT, and Carter Cattle Co., ID

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<tr>
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<tr>
<td>ACC % 10 20 15 10 10 25</td>
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EPDs as of 8/3/2017

Reg: AAA 18316913

ENTERPRISE

Enterprise Dam: LT Erica 0121

Enterprise is being used heavily in the LT program because Brent Thiel knows the value of his maternal line. Here is your chance to do the same from one of the great cow herds in the Angus breed.

Enterprise is a calving ease sire that’s loaded with some of the breed’s great maternal sires: Capitalist, Alliance I87, Bando 9074 and Sitz Value.

A perfect choice for heifers or cows, use Enterprise on a wide range of popular pedigrees and keep every heifer.

From: Lindskov-Thiel Ranch, SD

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<tr>
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<td>EPD 13 -1.0 61 113 .2 -1.17 16 12.9 13 23 26 .1 -6.27</td>
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<td>ACC % 5 10 20 10</td>
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• Reno is a wide-based, stout made Broken Bow son, out of a tremendous 702 daughter who is double bred Right Time 338.
• Reno progeny are dense bodied, easy fleshing cattle that can thrive in harsh environments.
• In addition to his balanced EPDs with indexes at the top of the breed, use Reno to make females to build a cow herd.

• Double XL is acclaimed by many to be the most attractive and powerful son of Ten X in the industry.
• He descends from a maternally superior line of females and was produced from a beautiful uddered 338 daughter.
• He is good footed, athletic, long-strided and structurally flawless. His progeny have a great deal of performance with stunning good looks.
Dividend was a 2016 Sitz sale feature that blends the calving ease, performance and phenotype of Barstow Cash with the growth and carcass stack of Ten X.

He is seeing heavy use in the Sitz and KG herds as well as several other prominent herds throughout the country.

A unique individual, Dividend is wide based and moderate statured with plenty of top and more muscle than expected from such an elite calving ease sire.

Response is a powerful Resource son from the dam of Sitz Investment that we expect to add muscle, forerib and base width.

He has been used heavily in the Hilltop, Sitz and KG programs in Montana and is proving to be a calving ease standout with no compromises on performance or eye appeal.

Here is an opportunity to use a calving ease Resource son with a powerhouse dam who has 5 calves ratioing 91 for BW, 105 for WW and 104 for YW.
LONG SHOT

Reg: AAA 18610758
HF Long Shot 71D

Beef@STgen.com • www.STgen.com • 866.589.1708

- Long Shot was the standout in the Denver pen for Hamilton Farms and one of the most talked about bulls in the yards.
- Long Shot is a calving ease son of the popular Cash son "Hot Lotto" out of the Evening Tinge cow family.
- Hamilton’s described him as: “Stout, Stout, Stout with the character and style to go with it.”

EPDs as of 8/3/2017

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<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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<tr>
<td>% 20</td>
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From: Hamilton Farms, Alberta, CA

STONECUTTER

Reg: AAA 18170691
KF Stonecutter 501

- When you consider phenotype, calving ease, pedigree and maternal power, Stonecutter should be on your radar screen.
- He smoked his competitive contemporary group indexing 95 for BW, 124 for WW, 106 for YW, 109 for IMF and 119 for ribeye.
- Square hip, added muscle, volume & base width on a super set of feet & legs.

EPDs as of 8/3/2017

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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<tr>
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From: Koberstein Farms, CO
**TOP CUT**

Reg: AAA 17680548

551AN01475

Bruns Top Cut 373

Bruns Uppercut 610
Sitz Upward 307R
Dakota Ann 565 BAF
Mohnen Brushpopper 295
Dakota Miss 1785 Baf

Tattoo: 373
Born: 1/21/2013
Birth Wt: 80 lbs
Weaning Wt: 795 lbs

From: Bruns Angus Farms, SD and Hoover Angus, IA

- Top Cut is currently the heaviest use sire at Hoover Angus where he boasts 98 BW and 101 WW ratios on his progeny.
- He sired the heaviest heifer at weaning in 2016 and the highest IMF and largest ribeye scanning heifers in the 2015 Hoover calf crops.
- Take advantage of Top Cut’s double bred TC Freedom pedigree and get ready to keep every heifer. Use Top Cut to add a notch of stature and improve feet without compromising calving ease, performance or carcass excellence.

**OZZIE**

Reg: AAA 17663847

203AN01466

Ox Bow Ozzie 3233

GDAR Game Day 449
Boyd New Day 8005
G D A R Miss Wix 474
Sitz Dash 10277
Ox Bow Blackbird 930

Ox Bow Blackbird 1139

Tattoo: 3233
Born: 1/27/2013
Birth Wt: 72 lbs
Weaning Wt: 768 lbs

From: Ox Bow Ranch, MT and Koupal Angus, SD

- Ozzie is a proven sire with the unique combination of performance EPDs in the top 10% of the breed or better while being modest for mature height and weight.
- Ozzie offers a maternal sire stack designed to make easy fleshing, hard working cows that will excel in any environment.
- His progeny are eye appealing with more muscle than you would expect from a bull at his level of CED.
### Foundation

Reg: AAA 18200213  
**Foundation**  

<table>
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<td>ACC</td>
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<tr>
<td>%</td>
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</table>

- Foundation presents an outcross option that is a perfect fit for Ten X, Resource, Final Answer and Upward descendants that can be used to improve foot quality in many lines of cattle.
- Foundation has several dozen calves all born unassisted in the Spickler and LT Ranch herds. His prolific donor dam has five natural calves at 91 for BW, 106 for WW and four at 110 for YW and
- Eight maternal sisters to Foundation calved spring ’17 at the Spickler Ranch and are described by Justin Spickler as “model Angus females.”

<table>
<thead>
<tr>
<th>Reg: AAA 18200213</th>
<th>Foundation S 514</th>
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<tr>
<td>Vision Unanimous 1418</td>
<td>Visiontopline Royal Stockman</td>
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<tr>
<td>S Lady Ann 8384</td>
<td>S Chisum 6175</td>
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<td>S Lady Ann 6325</td>
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<tr>
<td>Tattoo: 514</td>
<td>Yearling Wt: 1406 lbs</td>
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<tr>
<td>Born: 2/19/2015</td>
<td>Yearling SC: 38.1 cm</td>
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<tr>
<td>Birth Wt: 92 lbs</td>
<td>Yearling Frame: 6.1</td>
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<td>Weaning Wt: 808 lbs</td>
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<tr>
<td>From: Spickler Ranch South, ND and Lindskov-Thiel Ranch, SD</td>
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### Accelerate

Reg: AAA 18268046  
**Accelerate**  

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<td>ACC</td>
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<tr>
<td>%</td>
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</table>

- Chad Ellingson is using Accelerate in his herd and describes the bull as: “having a soft-made look, extra natural thickness and possessing functional feet and legs”.
- He is an outcross calving ease sire that excels for performance and $W in the top 1% of the Angus database.
- Accelerate provides the opportunity to use something different from a pedigree standpoint without sacrificing on EPDs or phenotype.
### ADDITIONAL ANGUS SIRES

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</table>
HOW DOES SEXED DIFFER FROM CONVENTIONAL SEMEN?

Proper handling, accurate heat detection, and AI timing are the key to success!

Straws
- All sexed semen is packaged in .25 cc straws, which requires either a .25 cc AI gun or Universal AI gun.
- Studies show that conception rates with .25 cc straws are actually superior to those with .5 cc straws when handled properly. *WHY*? Because .25 cc straws have a higher surface area to volume ratio, they thaw more uniformly in a water bath.

Handling
- Thinner straws = higher surface area to volume ratio. Straws can be more sensitive to temperature change than .5 cc straws, making proper tank inventory, handling, and transferring very important to the viability of the semen.
- Limit exposure to outside temps to 5-6 seconds, and keep semen below frost line in neck of semen tank.

Timing
- AI timing is different than conventional semen!!!!
- Optimal conception rates are achieved at 18-22 hours after standing heat.

FREQUENTLY ASKED QUESTIONS

Q: I’VE USED IT BEFORE & IT DIDN’T WORK WELL. WHAT’S CHANGED?
A: Within the past 2½ years, new improvements in technology, hardware, lasers, and proprietary biotechnology medias used in the sorting process have enhanced the fertility of sexed semen to rival conventional.

Q: WHAT CAN I EXPECT FOR CONCEPTION RATES?
A: New and improved SexedULTRA 4M™ semen products yield conception rates consistently within 5-10% of conventional semen.

We suggest producers become successful with conventional AI before trying sexed semen.

Q: CAN IT BE USED IN FIXED TIME AI PROTOCOLS?
A: Yes! Conception rates, as with conventional semen, will always tend to be higher when breeding off observed heats; however, there are several protocols that can be tailored to your abilities and labor constraints to achieve successful results.

For more information, visit with your local STGenetics® Representative to help you design a program.

Q: CAN IT BE USED SUCCESSFULLY IN IVF & CONVENTIONAL FLUSH ET?
A: Yes. IVF is the most successful and inexpensive method to create multiple sexed pregnancies in a short amount of time.

Fertilization rates with SexedULTRA 4M™ semen is bull dependent but typically ranges from 35% to 75%. Conventional flush ET seems to be more variable due to the use of exogenous hormones but can also be very successful.

At least 4 straws are recommended with AI timings anywhere from 16 to 26 hours after standing heat. Our recommendations are: 2 straws at 18 hours and 2 straws at 26 hours after standing heat.

Q: WHY SHOULD I USE SEXED SEMEN, SUCH AS SEXEDULTRA 4M™?
A: There are many scenarios that make using sexed semen an attractive option:

• Seed Stock Producers: Sexed semen can help you target specific matings. Use maternal oriented sires to produce premium replacement females, or use terminal oriented sires to produce bull calves.

• Commercial Cattlemen: Once the quota for replacement females is met each year, each additional steer calf means more pounds at weaning, better gain and feed efficiency, fewer discounts with heavier finishing weights and carcasses.

• Other breeds, such as F1 Braford & Brangus or Charolais, see large revenue discrepancies between one gender and the other.
“Our experience with SexedULTRA™ semen is a significant improvement compared to previous technology. Our results include a higher percentage of viable embryos, even from high stimulating females and mature cows. I expect the industry will utilize SexedULTRA™ semen more routinely as producers and embryologists recognize these improvements.”

Todd Stroud
Hoofstock Genetics, Ranger, TX

“I have been using sexed semen in my business for two years now and have had a very high success in producing quality embryos in my lab. Using SexedULTRA™ semen has given me an advantage in producing the heifers we need as well as beneting my customers. I highly recommend using STgenetics® to help reach your program goals.”

Wes Larkin
Dry Creek Genetics, Edna, TX

“We are hitting it out of the park with sexed semen on some of ST’s bulls. We jumped on the sexed semen band wagon back in 2010 and ST has consulted us ever since. Wouldn’t change a thing. We only AI cattle on natural heat cycles. Our conception rates are impressive.”

Stuart Watkins
Watkins Cattle Co, Welsh, LA

“SexedULTRA Works!}

The best way to predict the future is to Create It
Red Angus

Stud Code Reg Name Reg # HB GM CED BW WW YW Milk ME HPG CEM STAY MARB YG CW REA Fat
---
1802AR01502 BROWN CRSB REDEEMED B5332 1692936 185 54 16 -7.3 57 97 27 1 15 10 .64 -0.03 18 .17 .00
551AR01511 LSF SRR EXCEPTIONAL 5646C 1751111 209 55 15 -5.3 66 109 19 0 11 7 18 1.16 .12 27 .23 .05
551AR01513 OVER DRAFT PICK 413D 3548524 138 55 12 -3.8 83 146 17 -1 10 4 11 .66 .17 52 .42 .06

EPDs as of 8/6/2017

Reg: 3503354

Up Front

Andras New Direction R240
Andras In Focus B152
Andras Kuruba B111
LSF Saga 1040Y
TKP Belle 8243

Tattoo: 508
Born: 1/23/2015
Birth Wt: 75 lbs
Weaning Wt: 728 lbs

Yearling Wt: 1288 lbs
Yearling SC: 38.2 cm
Yearling Frame: 6.2

From: Pieper Red Angus, NE and Rhodes Red Angus Ranch, SD

- He offers an outcross pedigree steeped with maternal and performance excellence.
- Up Front is dark cherry red, demonstrates outstanding disposition and was a prolific pasture breeder.
- Up Front has the ability to influence the breed with classy daughters that have a durable, power cow look with flawless udders.

Reg: 3493807

Sir Loin

LSF Takeover 9943W
Brown Ms Paramount A7033

Tattoo: 5122
Born: 4/3/2015
Birth Wt: 76 lbs
Weaning Wt: 621 lbs

Yearling Wt: 1340 lbs
Yearling SC: 39.1 cm
Yearling Frame: 5.8

From: Bledsoe Bros., CO

- Sir Loin is the result of a unique mating of Takeover to a full sister to LSF Exclusive which resulted in flawless phenotype and EPDs that rival the breed’s best.
- Use Sir Loin as a “sleep all night” calving ease specialist that can add body mass, fleshing ability, and incredible cow power.

---

Additional Red Angus Sires

Reg: 551AR01510

Pie Up Front 508

Reg: 3493807

Sir Loin 5122

Reg: 551AR01513

Over Draft Pick 413D

- SexedULTRA4 Available
- EPDs as of 8/6/2017
### Encore

- **Reg**: 43387256
- **Sire**: KCF Bennett Encore Z311 ET
- **Dam**: KCF Miss Revolution X338 ET
- **Tattoo**: Z311
- **Born**: 9/21/2012
- **Birth Wt**: 83 lbs
- **Weaning Wt**: 680 lbs
- **From**: Knoll Crest Farm, VA

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### Flintlock

- **Reg**: 43060248
- **Sire**: JCS 240 Flintlock 5815
- **Dam**: KCF Miss Revolution X338 ET
- **Yearling SC**: 36.2 cm
- **Frame**: 6.1
- **From**: Copeland & Sons Herefords, NM

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### Additional Hereford Sires (All Homozygous Polled)

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**Simmental**

- Jaw dropping phenotype and structure with across the board genetic improvement for all traits.
- Young dam has 3@103 WW ratio and 3@117 IMF ratio. The first calves are flat good!!

**Reg: 2854458**

**BONY**

- Bounty’s first calf crop has stunning physical presence and blowing the doors off performance!
- Not a “toy” bald faced bull, he will sire growth, volume and muscle mass.
- Bounty is deep sided, thick topped and massive front to rear.

**Reg: 2854467**

**BLACK HAWK**

- EPDs as of Fall 2017

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**ADDITIONAL SIMMENTAL SIRES**

- EPDs as of Fall 2017

- **Bounty Daughter**
- **Bounty Son**
**BRANGUS SIRES**

- Foreman is the product of a proven mating designed for multi-trait excellence and is homozygous polled.
- Foreman defines performance excellence with contemporary group ratios of 71, 113 and 111 for BW, WW and YW, respectively.

### WAGYU SIRES

<table>
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Feed Efficiency...

Pass it On

The GDC is a division of Sexing Technologies and it follows that same principal of using innovation to make our industry more efficient. We strive to provide the best service for the animals and the ability to compile the most adequate amount of information possible to enhance our customers breeding decisions. This in return offers the GDC buyers with an outstanding product for their cattle operations.

At the GDC our goal is to look for those Superior Beef Sires and Heifers of each breed that are the leaders in performance efficiency traits.

Each animal will have complete individual feed intake measurements including:

- Feed Efficiency
- Average Daily Gain
- Carcass Ultrasound Evaluation
- Breeding Soundness Exams
- Docility and Temperament Scores

www.GeneticDevelopmentCenter.com
KALLION 1352

Reg: 925514

Mr Mendel De Kallion 436 (ET)
Miss Kallion 1731

Tattoo: 1352
Born: 3/20/2012
Birth Wt: 72 lbs

From: Kallion Farms, TX

EPDs as of Summer 2017

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+JDH Karu Manso 800
JDH Lady Risch Manso
Mr Mendel De Kallion 732
Miss Algodon Manso 204
Yearling SC: 34.0 cm

Mr Kallion 1352 Daughter
Mr Kallion 1352 Daughter 2
Mr Kallion 1352 Daughter 3

• 1352 has the potential to one day become a Trait Leader for Docility. His calves are exceptionally quiet and gentle.

• 1352 is a great calving ease option, ranking in the Top 20% of the breed for low BW, with around 70 calves averaging 66 pounds at birth - Recommended for heifers and crossbreeding.

• Carrying on the Kallion Farms legacy of Carcass Merit, 1352’s calves average 5% IMF! 1352 himself ratioed 111 for IMF and 109 for REA in a stout contemporary group at the Genetic Development Center.

• 1352’s calves are deep bodied, heavy boned and extremely fertile.
Shank is a sire of champions around the world, with seven Register of Renowns in his pedigree and a Trait Leader for Docility.

Shank stamps his calves with an enormous and powerful hip, making them easy to pick out of a herd.

Use to improve bone mass, muscle, volume and carcass weight.

Available in Conventional and Sexed Semen.

### ADDITIONAL GRAY BRAHMAN SIRES

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Shank stamps his calves with an enormous and powerful hip, making them easy to pick out of a herd.

Use to improve bone mass, muscle, volume and carcass weight.

Available in Conventional and Sexed Semen.

**Shank**

Reg: 830726

203BR00685 +JDH Sir Shank Manso 51/7

+JDH Sir Lawford Manso

JDH Lady Didor Manso 6

+JDH Madison De Manso

JDH Lady Bara Manso

+JDH Sir Alexo Manso

JJ Ms Didor Manso 690

Tattoo: 51/7

Born: 2/23/2003

Birth Wt: 85 lbs

Weaning Wt: 584 lbs

From: J.D. Hudgins - Hudgins Division, TX; Steven Swaner Jr, TX

Shank is a sire of champions around the world, with seven Register of Renowns in his pedigree and a Trait Leader for Docility.

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**HEAT DETECTION**

**Select Synch**

- GnRH
- PG

Heat detect & AI

treatment day
0 6 7 13

**Select Synch + CIDR®**

- GnRH
- PG
- CIDR®

Heat detect & AI

treatment day
0 7 13

**PG 6-day CIDR®**

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

- PG
- GnRH
- CIDR®

Heat detect & AI

treatment day
0 3 9 12

**HEAT DETECT & TIME AI (TAI)**

**Select Synch & TAI**

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

- GnRH
- PG
- AI

Heat detect & AI

treatment day
0 6 7 10

**Select Synch + CIDR® & TAI**

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

- GnRH
- PG
- CIDR®
- AI

Heat detect & AI

treatment day
0 7 10

**PG 6-day CIDR® & TAI**

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

- PG
- GnRH
- CIDR®
- AI

Heat detect & AI

treatment day
0 3 9 12

**FIXED-TIME AI (TAI)**

**7-day CO-Synch + CIDR®**

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

- GnRH
- PG
- CIDR®

60 - 66 hr

treatment day
0 7 10

**5-day CO-Synch + CIDR®**

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

- GnRH
- PG
- CIDR®

8 ± 2 hr

treatment day
0 5 8

**FIXED-TIME AI (TAI)**  
*for Bos Indicus cows only*

**PG 5-day CO-Synch + CIDR®**

Perform TAI at 66 ± 2 hr after CIDR removal with GnRH at TAI. Two injections of PG 8 ± 2 hr apart are required for this protocol.

- PG
- GnRH
- CIDR®
- AI

66 ± 2 hr

treatment day
0 5 8

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

Cystorelin®, Factrel®, Fertagyl®, OvaCyst®, GONA Breed®, estroPLAN®, Estramate®, In-Synch®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™

Approved 9-6-2016  
Beef Reproduction Task Force
**BEEF HEIFER PROTOCOLS - 2017**

### HEAT DETECTION

**1 Shot PG**

- Treatment day 0
- Heat detect & AI
- PG
- Treatment day 5

**7-day CIDR®-PG**

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 7

**MGA®-PG**

- Treatment day 1
- Heat detect & AI
- MGA
- Treatment day 14
- PG
- Treatment day 33

### HEAT DETECT & TIME AI (TAI)**

**Select Synch + CIDR® & TAI**

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

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 7
- PG
- Treatment day 10
- Heat detect & AI

**MGA®-PG & TAI**

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

- Treatment day 0
- Heat detect & AI
- MGA
- Treatment day 14
- Heat detect & AI
- PG
- Treatment day 36

**14-day CIDR®-PG & TAI**

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

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 30
- PG
- Treatment day 33

### FIXED-TIME AI (TAI)*

**Short-term Protocols**

**7-day CO-Synch + CIDR®**

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

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 5

**5-day CO-Synch + CIDR®**

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

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 5

**Long-term Protocols**

**14-day CIDR®-PG**

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

- Treatment day 0
- Heat detect & AI
- CIDR®
- Treatment day 14

**MGA®-PG**

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

- Treatment day 0
- Heat detect & AI
- MGA
- Treatment day 14

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

Approved 9-6-2016

*Beef Reproduction Task Force*

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

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**SYNCHRONIZATION PROTOCOLS**

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BEEF CUSTOMER SERVICE

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