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Dear Friends,

As we continue our evolution as a company in the beef industry, we are thrilled to have more boots on the ground to talk about the great sires and high fertility semen STgenetics has to offer. We have recently added Regional Sales Managers in key areas around the country and will add several independent sales representatives in the near future. Our goal is to provide you with experienced, knowledgeable professionals who can assist you with your livestock reproductive needs.

We are very excited to have SexedULTRA 4M™ high fertility semen available on many of our bulls, sorted for both sexes. We recently completed a field trial in cooperation with the University of Missouri and the University of Idaho using SexedULTRA 4M™ that yielded excellent results. You can read about these results on the next few pages. With conception rates near that of conventional semen, we believe now more than ever that sexed semen offers a viable solution to help you improve your bottom line. We are committed to developing new and innovative ways of using this technology to help you advance your operation.

We appreciate the support we’ve received from all our friends in the cattle business and consider ourselves lucky each day to work with such great people. This is an exciting time to be in the beef industry and we look forward to growing our business along with yours.

INTRODUCING...

**SexedULTRA 4M™**

- 4 MILLION CELLS PER STRAW
- TWICE AS MANY AS IN PREVIOUS *SexedULTRA™* PRODUCTS
- CONCEPTION RATES HIGHER THAN ORIGINAL *SexedULTRA™* NOW APPROACHING THOSE ACHIEVED USING CONVENTIONAL SEMEN
- GENDER ACCURACY CONSISTENTLY ABOUT 90 PERCENT

INNOVATIVE TECHNOLOGY TO MANAGE YOUR HERD

- GET YOUR REPLACEMENT HEIFERS FROM YOUR TOP COWS
- CREATE MORE STEER CALVES THAT WILL WEAN HEAVIER AND BRING MORE THAN THEIR HEIFER COUNTERPARTS
- SEED STOCK PRODUCERS – USE MALE SEXED SEMEN TO PRODUCE THE NUMBER OF BULLS YOU NEED RATHER THAN HOPING MOTHER NATURE PROVIDES YOUR DESIRED GENDER RATION.
- USE A HIGHLY MATERNAL BULL TO CREATE YOUR REPLACEMENTS AND A TERMINAL SIRE TO DESIGN THE BEST STEERS POSSIBLE.

THE BEST WAY TO PREDICT THE FUTURE IS TO Create It
**SEXED SEMEN TECHNOLOGY** has evolved significantly over the past decade. Today’s SexedULTRA 4M™ High Fertility semen offers a practical tool for producers to improve their bottom line. In a recent trial conducted in cooperation with The University of Missouri under the direction of Jordon Thomas as part of his Ph.D program, heifers inseminated with SexedULTRA 4M™ High Fertility semen achieved pregnancy rates rivaling that of conventional semen. Here are some of the highlights:

Two different bulls were used to generate conventional semen (concentration level of 25 million) and sexed semen using SexedULTRA 4M™ Genesis III sorting technology (concentration level of 4 million). 851 heifers across four locations were preassigned to balanced treatments (AI with conventional or SexedULTRA 4M™ sex-sorted semen) based on reproductive tract scores and weight. Estrus was synchronized using the 14-d CIDR-PG protocol (Figure 1 below).

![Figure 1: The 14-d CIDR-PG protocol for heifers with split-time AI](image)

Estrotect Estrus detection aids were applied at PG administration on Day 30. Split-time AI was performed at 66 or 90 h after PG based on estrous response. Ultrasound performed 62-95 days after AI.

"The results we’ve observed to date suggest that SEXEDULTRA used in conjunction with split-time AI yielded highly acceptable pregnancy rates in beef heifers that were synchronized with the 14-day CIDR-PG protocol. These results are encouraging, as expanded use of sex-sorted semen in the beef industry hinges largely on improvements in fertility outcomes following a timed insemination."

- Dr. David Patterson
University of Missouri
Here are the results:

<table>
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<tr>
<th>Location</th>
<th>Treatment</th>
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<td>62% (37/60)</td>
<td>62% (37/61)</td>
<td>62% (37/60)</td>
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<tr>
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<td>Sex-sorted</td>
<td>61% (37/61)</td>
<td>61% (37/61)</td>
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<tr>
<td>Location 2</td>
<td>Conventional</td>
<td>61% (65/107)</td>
<td>60% (63/105)</td>
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<tr>
<td></td>
<td>Sex-sorted</td>
<td>52% (54/104)</td>
<td>51% (54/105)</td>
<td>52% (108/209)</td>
</tr>
<tr>
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<td>Conventional</td>
<td>59% (17/29)</td>
<td>61% (19/31)</td>
<td>60% (36/60)</td>
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<tr>
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<td>Sex-sorted</td>
<td>66% (19/29)</td>
<td>50% (14/28)</td>
<td>58% (33/57)</td>
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<tr>
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<td>50% (24/48)</td>
<td>58% (56/97)</td>
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<td>Sex-sorted</td>
<td>44% (21/48)</td>
<td>40% (19/47)</td>
<td>42% (40/90)</td>
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<tr>
<td>Overall</td>
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<td>62% (151/245)</td>
<td>58% (106/184)</td>
<td>60% (257/429)</td>
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<td>Sex-sorted</td>
<td>54% (131/242)</td>
<td>48% (87/180)</td>
<td>52% (218/422)</td>
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</table>

More than ever before Sexed Semen is a viable tool to help you improve your bottom line. Whether a seed stock producer trying to produce more bulls for your production sale, a commercial producer targeting your top cows to produce your replacement females or someone that wants to capitalize on the price and weight differential between steers and heifers, sexed semen can be your answer to more dollars in your pocket. To learn more about your options and the many STgenetics sires with both male and female SexedULTRA 4M™ product available contact your local ST Genetics representative.

Acknowledgements:
We would like to acknowledge Jordan Thomas who was the project leader on this trial as part of his Ph.D program at MU. We would also like to acknowledge all the herds who participated:

Dr. John Hall, University of Idaho
Nancy M. Cummings research Education & Extension Center, Carmen, Idaho.
Brent Mason, Mason-Knox Ranch, Frankfort, SD
Don Ogren, Ogren Angus, Langford, SD

“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.”

- Dr. Les Anderson
University of Kentucky
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 is a big hipped, great footed, calving ease Unanimous son that was selected by Lindskov-Thiel Ranch and topped the 2016 Spickler bull sale. His prolific donor dam has 5 natural calves at 91 for BW, 106 for WW and 4 at 110 for YW and Foundation was well sampled in the Spickler and LT Ranch breeding programs. Study his picture, EPDs, pedigree and early adopters of his genetics...we believe you’ll concur that Foundation is one of the great young sires available in the Angus population!

**EPDs as of 12/16/2016**

| EPD    | CED | BW  | WW  | YW  | RADG | YH  | SC  | DOC | HP  | CEM | MILK | HD/DT | MW  | MH  | $EN | CW  | MARB | RE  | FAT  | $W | $B  |
|--------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| EPD    | 12  | .5  | 60  | 111 | .26  | .4  | 1.90| 26  | 16.0| 13  | 22   | 0    | 25  | .3  | -4.57| 69  | .84  | .32 | .035 | 61.58| 159.46|
| ACC    | .35 | .39 | .32 | .36 | .32  | .50 | .50 | .31 | .22 | .16 | .23  | .33  | .15 | .21 | .32  | .30  | .31  | 15  | 2   |
| %      | 10  | 10  | 5   | 20  | 3    | 10  | 10  | 10  | 15  |     |      |     |     |     |     |     |     |     |     |

Vision Unanimous 1418
S Lady Ann 8384

Tattoo: 514
Born: 2/19/2015
Birth Wt: 92 lbs
Weaning Wt: 808 lbs

From: Spickler Ranch South, ND and Lindskov-Thiel Ranch, SD

Available

“Here at Mohnen Angus we value a top notch company that makes it a priority to select high quality bulls that not only have outstanding EPD’s but make phenotype and performance a must. I feel STgenetics has done just that, built a solid lineup from top to bottom that will work in almost any program. If all starts with a high quality staff from top to bottom. I recommend STgenetics highly.”

- Steve Mohnen, Mohnen Angus Ranch
Treasure is arguably the most exciting sire to sell in 2016 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 predictions 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 1% of the breed without sacrificing sheath, scrotal or foot quality.

His EPD script reflects a genomic profile with scores of 1 for WW and YW, 4 for CE, BW and CW, and 8 for MARB and TEND plus incredible individual performance that includes a 131 IMF ratio.

### Production

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### V A R Discovery 2240
- A A R Ten X 7008 S A
- Deer Valley Rita 0308
- Connealy Impression
- DRMCTR 111 Rita 6108

### SJH Impression of 6108 1614
- Yearling Wt: 1469 lbs
- Yearling SC: 39.0 cm
- Yearling Frame: 6.3

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

### From: Rutherford Ranches, TX

**SexedULTRA Available**

[Beef@STGen.com • www.STGen.com • 866.589.1708]
Top Cut is currently the heaviest used 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.

**Production**

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**Son:** Hoover Top Cut P412

**Dam:** CAR Miss Amy 591

**From:** Bruns Angus Farms, SD; Hoover Angus, IA

**Top Cut**

- **Reg:** AAA 17680548
- **Reg:** AAA 17612134
- **Born:** 1/21/2013
- **Birth Wt:** 80 lbs
- **Weaning Wt:** 795 lbs
- **Yearling Wt:** 1429 lbs
- **Yearling SC:** 37.5 cm
- **Yearling Frame:** 6.2
- **Tattoo:** 373

**Tattoo: 373**

**Born:** 1/21/2013

**Birth Wt:** 80 lbs

**Weaning Wt:** 795 lbs

**Yearling Wt:** 1429 lbs

**Yearling SC:** 37.5 cm

**Yearling Frame:** 6.2

- Top Cut is currently the heaviest used 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.
Double XL is acclaimed by many to be the most attractive and powerful son of Ten X in the industry.

He is a sure fire calving ease sire with solid EPDs across the board.

He descends from a maternally superior line of females and produced from a beautiful uddered 338 daughter.

He is good footed, athletic, long-strided and structurally flawless. His progeny have an abundance of performance with stunning good looks.

**EPDs as of 12/16/2016**

<table>
<thead>
<tr>
<th>EPD</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>RADG</th>
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**From:** Malek Angus, MT; Montana Angus Ranch, MT and Adams Angus Acres, ID

**Dam:** CAR Miss Amy 591

**Tattoo:** 320
**Born:** 1/29/2013
**Birth Wt:** 84 lbs
**Weaning Wt:** 876 lbs

**Mytty In Focus**
**A A R Lady Kelton 5551**
**Hyline Right Time 338**
**CAR Miss Amy 12**
Angular Beef

When you consider phenotype, EPD package, pedigree and maternal power, Stonecutter should be on your radar screen.

Stonecutter is beautiful fronted, smooth shouldered and extremely attractive. He exhibits a square hip, added muscle, volume and base width on a super set of feet and legs.

EPDs as of 12/16/2016

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<th>BW</th>
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From: Koberstein Farms, CO

Reg: AAA 18066037

Legend is 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.

His dam is an impressive maternal powerhouse which has a progeny sales averaging $31,000 at VAR.

EPDs as of 12/16/2016

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

Reg: AAA 18170691

Stonecutter

EPDs as of 203AN01448

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From: Stonecutter
### Stonecutter

**Reg:** AAA 18316913  
**LT Enterprise 5213**

**EPDs as of 12/16/2016**

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**Connealy Capitalist 028**

- S A V Final Answer 0035
- Prides Pita of Conanga 8821
- KMK Alliance 6595 I87
- L T Erica of Bando 3016

**LT Erica 0121**

- Tattoo: 5213
- Born: 3/12/2015
- Birth Wt: 73 lbs
- Weaning Wt: 721 lbs

**From:** Lindskov-Thiel Ranch, SD

- Yearling Wt: 1435 lbs
- Yearling SC: 36.0 cm
- Yearling Frame: 5.9

**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 187, 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.

- His picture says it all...Enterprise is big hipped and deep sided with excellent skeletal and foot structure.

---

**Enterprise**

**Reg:** AAA 18316913  
**LT Enterprise 5213**

**EPDs as of 12/16/2016**

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<th>EPD</th>
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**Connealy Capitalist 028**

- S A V Final Answer 0035
- Prides Pita of Conanga 8821
- KMK Alliance 6595 I87
- L T Erica of Bando 3016

**LT Erica 0121**

- Tattoo: 5213
- Born: 3/12/2015
- Birth Wt: 73 lbs
- Weaning Wt: 721 lbs

**From:** Lindskov-Thiel Ranch, SD

- Yearling Wt: 1435 lbs
- Yearling SC: 36.0 cm
- Yearling Frame: 5.9

---

**Dam:** LT Erica 0121

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- Enterprise is a calving ease sire that's loaded with some of the breed's great maternal sires: Capitalist, Alliance 187, 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.

- His picture says it all...Enterprise is big hipped and deep sided with excellent skeletal and foot structure.

---

**“I feel in a replacement heifer program, such as ours, sexed semen can be a great tool to produce exceptional heifer calves with a high degree of accuracy for calving ease. With the opportunity to use sexed semen, beef producers can also use sexed heifer semen on their high maternal cows and use male sexed semen from high carcass bulls on the non-maternal cows for a terminal.”**

- Brent Mason, Mason-Knox Ranch
Reno is a wide-based, stout made Broken Bow son, out of a tremendous 702 daughter who is double bred to Right Time 338.

In addition to his balanced EPDs with economic indexes at the top of the breed, use Reno to make females to build a cow herd.

From: Spring Cove Ranch, ID

“We have used sexed semen in our operation for over 5 years and continue to do so as a significant part of our program. We have found the 90% rate to be very reliable in producing the sex of calves we want. We usually sell around 700 bulls each year of Black Angus and Charolais. We will be offering our first Red Angus X Charolais bulls in 2017 – they are the result of sexed Red Angus semen! It works for us.”

- Galen and Lori Fink

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<th>Production</th>
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| Reload is a calving ease Resource son with a powerful maternal pedigree being out of a Thunder daughter back to the iconic maternal sire Traveler 124.

Reload saw heavy use in the Gartner-Denowh program with the first calves coming in the spring of 2017.

From: Sitz Angus Farm, MT and Gartner-Denowh

Angus Ranch, MT

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<tr>
<th>Production</th>
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<th>Carcass</th>
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</table>
With a $W index deep into the top 1% of the Angus breed, Charlo 3212 represents the next generation of the cow power that has defined the Coleman program.

Incredibly dense bodied and 3-dimensional, use 3212 to add capacity and fleshing ability to a set of replacement heifers and stouten up a set of sons.

His dam is the legendary Coleman Donna 714 who has several proven sons in A.I. and has generated tremendous daughters at work in several leading herds.

Larry Coleman says: "If you're looking for that Charlo son with more performance, he is the bull for you."

### EPDs as of 12/16/2016

<table>
<thead>
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**Coleman Charlo 0256**
- O C Paxton 730P
- Bohi Abigale 6014
- Connealy Onward
- Coleman Donna 386

**Coleman Donna 714**
- Dam: Coleman Donna 714
- Grandam of Charlo 3212
- Sister to Charlo 3212

**Tattoo: 3212**
- Born: 7/3/2013
- Birth Wt: 89 lbs
- Weaning Wt: 808 lbs

**From: Coleman Angus, MT**
Commonwealth was the standout 1682 son of the 2016 Connealy offering with a great look and a solid genetic profile.

Commonwealth has all the fundamentals for a cow herd to be profitable...excellent calving ease, solid growth and carcass EPDs with moderate projections for daughter mature size.

EPDs as of 12/16/2016

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<th>203AN01463 Connealy Commonwealth</th>
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<td>Parisian of Conanga 3582</td>
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<td>Parsitta of Conanga 181</td>
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<td>Tattoo: 5129</td>
<td>Yearling Wt: 1284 lbs</td>
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<td>Birth Wt: 69 lbs</td>
<td>Weaning Wt: 750 lbs</td>
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<td>Weaning Wt: 750 lbs</td>
<td>From: Connealy Angus Ranch, NE; Way View Cattle Co., OH; Smith Angus Farm, GA and Woodall Angus Farm, KY</td>
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</tbody>
</table>

Paydirt is a powerful 1682 son that blew the doors off for performance in a large contemporary group, with a weaning ratio of 120 and yearling ratio of 119 with conservative MW and MH projections.

Use this exciting sire to hit "Paydirt" when you run his calves across the scales!

EPDs as of 12/16/2016

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<tr>
<td>Birth Wt: 76 lbs</td>
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<td>From: Apex Angus, MT and Wheeler Mountain Ranch, MT</td>
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SexedULTRA4M® Available
POWERPOUNT

Reg: AAA 18159093
S Powerpoint WS 5503

551AN01469

EPDs as of 12/16/2016

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Tehama Revere
S Queen Essa 248

Tattoo: 5503
Born: 2/19/2015
Birth Wt: 68 lbs
Weaning Wt: 823 lbs

From: Spickler Ranch North, ND and Ellingson Angus, ND

D R Sierra Cut 7404
Tehama Elite Blackbird T003
S Summit 956
S Queen Essa 0131

Yearling Wt: 1439 lbs
Yearling SC: 35.6 cm
Yearling Frame: 6.0

• Powerpoint is the uniquely bred Lot 1 bull from Spickler Angus, sired by Tehama Revere, the high marbling Sierra Cut son who has 51 progeny in three herds indexing 118 for IMF.

• His Summit x Queen Essa dam is tidy uddered, small teated and well on her way to pathfinder status with her first two calves at 98 for BW, 110 for WW and 110 for YW.

• Powerpoint is a marbling specialist, ratioing 221 for IMF in a contemporary group of 76. Calving ease, growth, carcass quality, strong maternal and excellent feet...he has it all!

• Powerpoint is well sampled with calves coming in the Spickler and Ellingson programs in the spring of 2017.

“STgenetics has aggressively pursued and secured some of the best genetics available in the Angus breed today. They have an impressive lineup of calving ease, growth, maternal, and carcass genetics that should meet the needs of the most discriminating breeder.”

- John Grimes, Maplecrest Farms
Response offers more calving ease than most Resource sons. Response has tremendous phenotype and data set tying everything together in a neat package. Response saw heavy use in our program this Spring.”

- Jim Sitz, Sitz Angus Ranch

### Production

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<th>HD/DT</th>
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**Response**

- S A V Resource 1441
- Sitz Ellunas Elite 656T

**Tattoo:** 405C

**Born:** 2/7/2015

**Birth Wt:** 85 lbs

**Weaning Wt:** 722 lbs

**From:** Sitz Angus Ranch, MT;

KG Ranch, MT and Hilltop Angus, MT

**EPDs as of 12/16/2016**

**Rito 707 of Ideal 3407 7075**

**S A V Blackcap May 4136**

**Sitz Upward 307R**

**Sitz Ellunas Elite 35M**

**Yearling Wt:** 1218 lbs

**Yearling SC:** 38.2 cm

**Yearling Frame:** 5.8

- Response is a powerful resource son from the dam of Sitz Investment that we expect to add muscle, fore rib, and base width.

- Sort Response in the Angus database for the traits of merit, including his combination of growth, mature weight and height...he is unique!

- He saw heavy use in the Hilltop, Sitz and KG programs in Montana last spring.

- 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.
**DIVIDEND**

Reg: AAA 18086964

EPDs as of 12/16/2016

**Production**

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|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|
| %    | 2   | 1   | 5   | 3   | 20   | 25  | 2   | 2   | 20  | 15  | 1    | 20   |     |     |     |     |     |

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**$ Value**

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**Barstow Cash**

Sitz Dash 10277
Barstow Queen W16
A A R Ten X 7008 S A
Sitz Barbaramere Nell 75Y

**Sitz Barbaramere Nell 39a**

Yearling Wt: 1307 lbs
Yearling SC: 38.5 cm
Yearling Frame: 6.2

**Tattoo:** 649C
**Born:** 2/1/2015
**Birth Wt:** 56 lbs
**Weaning Wt:** 725 lbs

**From:**
Sitz Angus Ranch, MT; KG Ranch, MT;
Raymond & Sons Inc., OR
and Botts Angus Ranch, OR

**From:**
Sitz Angus Ranch, MT; KG Ranch, MT;
Raymond & Sons Inc., OR
and Botts Angus Ranch, OR

• 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.

• Dividend is seeing a heavy use in the Sitz and KG herds, as well as several
  other prominent herds throughout the country.

• Dividend jumped through every hoop and passed every test in a large,
  competitive contemporary group.

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

“Dividend was one of the most talked about bulls in the 2016 Spring
season because of his unmatched EPD profile and tremendous
phenotype. A Cash son with a killer look. Dividend saw heavy use in
our program last Spring.”

- Jim Sitz, Sitz Angus Ranch
Apache is an outstanding son of the popular Musgrave herdsire Aviator out of a beautiful uddered Boulder daughter from the great Caroline cow family. Apache is a promising young sire with an unique blend of style, structure, durability and muscle.

**APACHE**

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<td>MCATL Forever Lady 1429-138</td>
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<td>MCATL Lady Caroline 189-1615</td>
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<td>Tattoo: A516</td>
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<td>Born: 1/4/2015</td>
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<td>Birth Wt: 75 lbs</td>
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<td>Yearling Wt: 1492 lbs</td>
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**CAPSTONE**

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<td>S A V Final Answer 0035</td>
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<td>Prides Pita of Conanga 8821</td>
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<td>Hilltop Shauna 176</td>
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<td>Sitz Rainmaker 11127</td>
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<td>Sitz Shauna 431</td>
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<td>Tattoo: 5374</td>
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<td>Birth Wt: 76 lbs</td>
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<td>Weaning Wt: 714 lbs</td>
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<td>Yearling Wt: 1349 lbs</td>
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<td>Yearling SC: 38.1 cm</td>
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<td>Yearling Frame: 5.8</td>
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<tr>
<td>From: Hilltop Angus Ranch, MT and Carter Cattle Co., ID</td>
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</tbody>
</table>

“176, the dam of Capstone is an ideal angus cow. She is moderate framed, deep bodied and easy fleshing with a good udder and great feel and legs. 176 already has 6 bulls working in registered herds. The flush sisters to Capstone are some of the most exciting females we have ever had and are the favorites of visitors to the ranch.”

-Cory Poser, Hilltop Angus Ranch
Concord is the popular Consensus son out of Black Granite’s dam and the top selling bull from the 2016 Connealy sale.
Concord is well into the top 1% of the population for ribeye EPD and he expresses it!

From: Connealy Angus Ranch, NE; Way View Cattle Co., OH; Smith Angus Farm, GA and Woodall Angus Farm, KY

Rampart is an excellent choice for Resource, Ten X, Prophet, Upward, Waylon and Final Answer daughters.

From: Connealy Angus Ranch, NE
Reg: AAA 18077651

**REPUTATION**

Raven Powerball 53
SITZ Pride 319A

Tattoo: 689C
Born: 1/29/2015
Birth Wt: 63 lbs
Weaning Wt: 756 lbs

From: Sitz Angus Ranch, MT and Adams Angus Acres, ID

“SexedULTRA™ semen from STgenetics has been very beneficial to the A.I. program for Hillhouse Angus. Our experience with SexedULTRA™ has shown that it is as potent and viable as conventional frozen semen. We have seen no differences in our conception rates using SexedULTRA™.”

–Steve Hillhouse, Hillhouse Angus

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Reg: AAA 18301470

**DRIVE**

G A R Momentum
Maplecrest Blackcap 3007

Tattoo: J5012
Born: 1/4/2015
Birth Wt: 79 lbs
Weaning Wt: 910 lbs

From: Gardiner Angus Ranch, KS; Maplecrest Farms, OH; Hillhouse Angus, TX and Big Timber Cattle Co., FL

“Scanning over 11% actual IMF and over a 17 sq. inch ribeye earned Drive the honor of selling as the lead off yearling bull in the 2016 GAR spring sale.

• Well into the top 1% for marbling and ribeye EPDs, use Drive to add carcass excellence in a front pasture package.

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Angus Beef@STgen.com     www.STgen.com     866.589.1708

Production Maternal Carcass $ Value

**OZZIE**

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</table>

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

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

**CASHMAN**

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</table>

Tattoo: A24  
Born: 1/26/2013  
Birth Wt: 74 lbs  
Weaning Wt: 743 lbs

From: Barstow Angus, NE; Hall Ranch, NE and Andrew Wewel, NE

**Ozzie** is a proven sire with the unique combination of performance EPDs in the top 10% of the breed or better while being negative for mature height and weight.  
Maternal sire stack is designed to make moderate, hardworking cows.

**Breed on Cashman as a proven calving ease specialist who brings top 2% or better for heifer pregnancy, yearling growth and residual gain.  
Cashman sold to Hall Ranch in the 2014 Barstow bull sale and has been used in both programs to generate deep bodied, broody replacement heifers.**

---

**SexedULTRA® Available**
VERSATILE

Reg: AAA 18182772

S A V Resource 1441
SAV Blacklass 124 EA

Tattoo: 5186
Born: 3/6/2015
Birth Wt: 80 lbs
Weaning Wt: 808 lbs

From: Ellingson Angus, ND and Talkington Angus Ranch, ND

EPDs as of 12/16/2016

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ACCELERATE

Reg: AAA 18268046

Koupal Advance 28
EA Emblynette 3361

Tattoo: 5264
Born: 3/21/2015
Birth Wt: 75 lbs
Weaning Wt: 843 lbs

From: Ellingson Angus, ND

EPDs as of 12/16/2016

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Reg: AAA 18098658

MESSENGER

203AN01427
SAC Messenger

Silveiras Conversion 8064
Laflins Farrah 0252

Tattoo: JS03
Born: 11/8/2014
Birth Wt: 76 lbs
Weaning Wt: 867 lbs

Yearling Wt: 1501 lbs
Yearling SC: 38.2 cm
Yearling Frame: 6.2

From: Shermer Angus, IA; Mohnen Angus, SD; Silviera Bros., CA and Sandven Stock Farms, IA

SexedULTRA Available

EPDs as of 12/16/2016

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Reg: AAA 17923397

RAPTOR

203AN01408
S A V Raptor 4282

S A V Resource 1441
S A V Blackcap May 1808

Tattoo: 4282
Born: 3/1/2014
Birth Wt: 80 lbs
Weaning Wt: 967 lbs

Yearling Wt: 1508 lbs
Yearling SC: 38.5 cm
Yearling Frame: 6.2

From: Schaff Angus Valley, ND

SexedULTRA Available

EPDs as of 12/16/2016

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**INTUITION**

Reg: AAA 18183816

Intuition was a popular sale feature being used in the Mohnen program to add calving ease and $W in a wide tracking, sound structured, super maternal package.

- Follow your "Intuition" and use this balanced young sire to add muscle, substance and maternal strength to your herd in one generation.

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**FINAL DESIGN**

Reg: AAA 17385077

Breeders often ask us for a super-complete, balanced trait bull that avoids extremes and consistently sires solid calves...A&B Final Design 2135 delivers exactly that!

- Use Final Design to add SC and thickness while improving docility.

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STAMINA

Reg: AAA 17752953

Connealy Earnan 076E
Exec Elmay 6537 1008 Bartels

Tattoo: 314
Born: 2/4/2013
Birth Wt: 100 lbs
Weaning Wt: 671 lbs

From: Bartels Angus, NE; Knoll Crest Farm, VA; and Woodhill Farm, WI

Stamina was the 2014 sale standout identified by Woodhill and Knoll Crest from the up-and-coming Bartels Angus program.

Take advantage of a pedigree stacked with proven difference makers with a tremendous combination of $W and $B.

EPDs as of 12/16/2016

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<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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ZEUS

Reg: AAA 16491438

S A V Final Answer 0035
Frosty Elba Lizzy 1106

Tattoo: 3609
Born: 3/20/2009
Birth Wt: 100 lbs
Weaning Wt: 865 lbs

From: Schiefelbein Farms, MN and Trowbridge Angus, NY

Zeus is a proven calving ease sire that consistently sires deep, wide based calves that express a big, powerful hip.

Use Zeus for superior calving ease while adding rib and fleshing ability in a dense bodied package.

EPDs as of 12/16/2016

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As the Lot 1 bull from the 2015 GAR fall sale, Predictor offers top-of-the-breed calving ease coupled with breed leading performance and carcass traits.

Use Predictor for Profitable Cattle on the Rail or in the Pasture.

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<tr>
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<th>Carcass</th>
<th>$ Value</th>
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</table>

Professional is a calving ease sire with breed leading performance and carcass greatness.

If you are serious about end product, Professional is a must-use sire.

<table>
<thead>
<tr>
<th>Production</th>
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<tr>
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</table>
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.

Study his full script of genetic predictions which propel his Herdbuilder and Gridmaster indexes into the top 1% of the Red Angus population.

Use Sir Loin as a "sleep all night" calving ease specialist that can add body mass, fleshing ability and incredible cow power.

EPDs as of Spring 2017

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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

“We just opened up a new ranch and needed to get a lot of replacement heifers to fill up the open farm. We picked female sexed semen to help get the job done. STgenetics has been an important partner for our ranch. You can have confidence that you will be getting the most out of your cows using sexed semen from STgenetics.”

- Mike Kerby, Buck Mountain Ranch
Up Front was the phenotypic standout Lot 1 of the 2016 Pieper sale with a masculine build and a herd bull presence. Up Front has the ability to influence the breed with classy daughters that have a durable, power cow look with flawless udders.

**EPDs as of Spring 2017**

- **Reg:** 3503354
- **UP FRONT**
- **PIE Up Front**
- **Andras New Direction R240**
- **Andras In Focus 152**
- **Andras Kuruba B111**
- **LSF Saga 1040Y**
- **TKP Belle 8243**
- **Tattoo:** 508
- **Born:** 1/23/2015
- **Birth Wt:** 75 lbs
- **Weaning Wt:** 728 lbs
- **Weaning SC:** 38.2 cm
- **Age:** 6.2
- **From:** Pieper Red Angus, NE and Rhodes Red Angus Ranch, SD

**Exceptional** is appropriately named as his blend of traits is hard to match, including top 1% for Stayability, Marbling, HerdBuilder and GridMaster. Here is an opportunity to make multi-trait improvement from a bull with Exceptional genetics, pedigree, program and performance.

**EPDs as of Spring 2017**

- **Reg:** 1751111
- **EXCEPTIONAL**
- **LSF SRR Exceptional 5464C**
- **Brown JYJ Redemption Y1334**
- **Beckton Nebula P P707**
- **JYJ Ms Jolene W16**
- **Messmer Packer S008**
- **LSF Wideload R5014 U8061**
- **LSF Wideload N3195 R5014**
- **Tattoo:** 5464C
- **Born:** 4/9/2015
- **Birth Wt:** 85 lbs
- **Weaning Wt:** 678 lbs
- **Weaning SC:** 36.6 cm
- **Age:** 6.0
- **From:** Ludvigson Stock Farms, MT
Red Angus

2016 Pieper Sale

Lot 1 - Up Front

- Masculine build
- Herd bull presence
- Ability to influence the breed with classy daughters
- Durable, power cow look with flawless udders

EPDs as of Spring 2017

<table>
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<th>Tattoo: 508</th>
<th>Yearling Wt: 1288 lbs</th>
<th>Yearling SC: 38.2 cm</th>
<th>Yearling Frame: 6.2</th>
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Exceptional

- Top 1% for Stayability, Marbling, HerdBuilder and GridMaster
- Genetics, pedigree, program and performance

EPDs as of Spring 2017

<table>
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<tr>
<th>Tattoo: 5464C</th>
<th>Yearling Wt: 1344 lbs</th>
<th>Yearling SC: 36.6 cm</th>
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<tr>
<td>Born: 4/9/2015</td>
<td>Birth Wt: 85 lbs</td>
<td>Weaning Wt: 678 lbs</td>
<td>From: Ludvigson Stock Farms, MT</td>
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Encore

- Remarkable calving ease
- Tremendous growth and carcass offerings
- Used successfully on heifers and cows in NJW and KCF programs
- Marbling and carcass weight well into the top 1% of the population
- Homozygous polled "breed changer" that takes purebred and commercial programs to the forefront of the beef industry

EPDs as of 12/15/2016

<table>
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<th>Yearling Wt: 1158 lbs</th>
<th>Yearling SC: 36.2 cm</th>
<th>Yearling Frame: 6.1</th>
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<tr>
<td>Born: 9/21/2012</td>
<td>Birth Wt: 83 lbs</td>
<td>Weaning Wt: 680 lbs</td>
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From: Knoll Crest Farm, VA

SCHU-LAR On Target 22S
SCHU-LAR 5N Of 9L 3008
SCHU-LAR 208 Of 1H 121 ET
MSU TCF Revolution 4R
JW 718 Victoria 9106

KCF Miss Revolution X338
SCHU-LAR 5N Of 9L 3008
SCHU-LAR 208 Of 1H 121 ET
MSU TCF Revolution 4R
JW 718 Victoria 9106

Dam: KCF Miss Revolution X338 ET
Encore Daughter
Encore Daughter

SexedULTRA Available
Homeland offers a rare opportunity to accomplish multitrait improvement in one generation. He is dark red, short marked with red eyes and is homozygous polled. His Proficient dam is a model cow in the KCF program and his grandmother is a preeminent flush sister to Encore’s dam. Homeland was the top selling bull at Knoll Crest last spring and is seeing heavy use in their program.

**EPDs as of 12/15/2016**

- **Tattoo:** C34
- **Born:** 1/29/2015
- **Birth Wt:** 70 lbs
- **Weaning Wt:** 672 lbs

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**From:** Knoll Crest Farm, VA

“"The availability of sexed semen has changed the economics of our program. We are better able to utilize our maternal donor cows by producing valuable daughters and by doing so, have increased the penetration of our genetics. Sexed semen is vital to our goal of producing top-quality purebred and F1 females.”

- Dimitri Mataragas, Iron Lake Ranch
Hereford
30 Beef@STgen.com     www.STgen.com     866.589.1708

Homeland offers a rare opportunity to accomplish multitrait improvement in one generation.
He is dark red, short marked with red eyes and is homozygous polled.
His Proficient dam is a model cow in the KCF program and his grandmother is a preeminent flush sister to Encore’s dam.
Homeland was the top selling bull at Knoll Crest last spring and is seeing heavy use in their program.

EPDs as of 12/15/2016

- Tattoo: C34
- Born: 1/29/2015
- Birth Wt: 70 lbs
- Weaning Wt: 672 lbs
- Yearling Wt: 1140 lbs
- Yearling SC: 35.0 cm
- Yearling Frame: 6.0
- Homozygous Polled
- From: Knoll Crest Farm, VA

- Bloodline is a unique individual who was a standout in his calf crop and he scanned the largest ribeye ever measured at Knoll Crest Farm, of any breed.
- Bloodline is Homozygous Polled with 100% Pigment in Both Eyes.

<table>
<thead>
<tr>
<th>CE</th>
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- From one of the most respected performance programs in the Hereford breed, Canaan is a power bull that can be used to add performance and payweight.
- Use Canaan to generate beautiful black baldies or reds that grow and perform with front pasture style.

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Flintlock is a calving ease specialist with lots of body mass...Ideal for making tiger stripes and black baldies.

From the respected Copeland & Sons Ranch in New Mexico, Flintlock has range survivability and longevity bred in, weaning off at 840 lbs under range conditions!

Flintlock is smooth shouldered with a capacious body, square hip and clean joints.

Flintlock's beautiful uddered dam was Cliff Copeland's selection from the MSU program.

Flintlock is SexedULTRA Available

“Good teats and udders are one of the Hallmarks in our herd. We have no time to get cows in to get calves to nurse. Our cattle are bred and selected from the ground up. If cattle are not structurally correct they self-eliminate in this rugged environment.”

– Cliff Copeland, Copeland & Sons Herefords
Bounty's first calf crop has stunning physical presence and blowing the doors off performance!
Not a "toy" bald faced bull...this guy will sire growth, volume and muscle mass.
Bounty is deep sided, thick tipped and massive front to rear. He is a puppy dog for demeanor.
He has seen lots of use the last two years with good reason!

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### EPDs as of Spring 2017

- **MCM Top Grade 018X**
- **Hook's Yuma 49Y**

**Tattoo:** 6B  
**Born:** 2/23/2014  
**Birth Wt:** 86 lbs  
**Weaning Wt:** 792 lbs

**Mr NLC Upgrade U8676**  
**MCM 513R**  
**Hooks Titus 31T**  
**Hook’s Universal 17U**

**Yearling Wt:** 1506 lbs  
**Yearling SC:** 39.0 cm  
**Yearling Frame:** 6.5  
**Hybrid 3/4 SM 1/4 AN**

**SexedULTRA Available**

From: Hook Farms, MN and Gonsalves Ranch, CA
The top selling and dominant bull of the 2016 Triangle J Bull Sale.

He is a massive ribbed, thick ended, big footed 3/4 blood with a young rookie-sired donor dam who has three calves with an average Weaning Ratio of 121.

**NORTHWARD**

Reg: 3022900

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**ENTREPRENEUR**

Reg: 2656649

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Entrepreneur has all the maternal value of Tanker with less birth weight and a lot more marbling.

Entrepreneur is a consistent improver for testicle size, feet and legs and overall soundness and structure.
Blackhawk is the absolute ticket to use on purebred cows and heifers to make better purebred progeny.

- Young dam has 3 at 103 WW ratio and 3 at 117 IMF ratio. The first calves are flat good!

Conquest has tremendous potential with his superior calving ease, growth and marbling plus API and TI both in the top 1% of the breed.

- Conquest will work on many cattle types to generate performance and production in a package that brings pride of ownership.

---

**BLACK HAWK**

Reg: 2854467

Hook’s Black Hawk 50B

**EPDs as of Spring 2017**

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**CONQUEST**

Reg: 2984501

CLRS Conquest 634 C

**EPDs as of Spring 2017**

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**Reg: 896343**

**KING OF CLUBS**

JDH King of Clubs Manso 784/4

+Mr. V8 789/4
JDH Lady Rubidia Manso

+JDH MR Brandon Manso
JDH Lady Welu Crat Manso

Tattoo: 784/4
Born: 10/4/2010
Birth Wt: 65 lbs

Weaning Wt: 580 lbs

From: J.D. Hudgins - Locke Div., TX;
Bruce Alford Cattle Co., TX

- Son of the high-performance Sir Neese Manso and a beautiful Locke Division Brandon daughter.
- A "Go-To" calving-ease option for heifers and crossbreeding.
- Rare spread from birth weight to yearling weight, high milk and super feminine daughters.

**EPDs as of Winter 2016**

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**Reg: 842945**

**JEROME**

JDH Sir Jerome Manso 224/4

+JDH Sir Liberty Manso
JDH Sarasota Lady Manso

=JDH Lady 266/2 Yl Manso

Tattoo: 224/4
Born: 9/11/2004
Birth Wt: 83 lbs

Weaning Wt: 510 lbs

From: Madison Acedo, Mario Montenegro

- Register of Renown whose calves are prized for their docility and phenotype.
- *Sleep-All-Night* calving ease option for heifers or crossbreeding.
- Jerome Boasts 9 Register of Renowns in his pedigree.

**EPDs as of Winter 2016**

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**SexedULTRA 4M Available**

King of Clubs Daughter
King of Clubs EPDs

King of Clubs Daughter
King of Clubs EPDs
Brahman

KALLION 1352

Reg: 925514

551BR01906

Mr Kallion 1352

1352 has the potential to one day become a trait leader for docility. His calves are exceptionally quiet & 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 lbs 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.

SexedULTRA Available

BW WW YW MILK Retail Product Tenderness Docility MBW Carc Wt FAT REA MARB

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Mr Mendel De Kallion 436 (ET)
JDH Karu Manso 800
JDH Lady Risch Manso
Mr Mendel De Kallion 732
Miss Algodon Manso 204

Miss Kallion 1731

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

Yearling SC: 34.0 cm

From: Kallion Farms, TX
Maddox continues to produce outstanding progeny worldwide.
- 7 Register of Renown in his pedigree, including the iconic Madison de Manso bull.
- Ideal phenotype, moderate frame and heavy muscling with strong tops and clean underlines.

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From: Heritage Cattle, TX; The Maddox Syndicate

Bogota draws high praise for his thick, attractive offspring.
- 2013 Heart of Texas Grand Champion and Tennessee State Fair Grand Champion
- Notable for his muscle, volume, and bone. Feet and legs are a strongpoint!

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Erwin is a Long-Made, Big-Ribbed Son of JDH MR Crosby Manso. Erwin is Still Making His Mark in the JT Brahmans' Program and a Sire that Has Seen Use in 7 Different Herds.

His dam, JDH Lady Shannon Manso, is a Forrest daughter that has produced 4 herd sires in her lifetime.

Study Erwin's EPD profile and you will find a moderate birthweight bull that impresses for growth, milk, REA and docility.

Erwin Possesses Flawless Feet and Sheath Design and Combines Depth of Rib with a Massive Hindquarter.

**ERWIN**

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**JDH MR Crosby Manso**

- (+)JDH Sir Liberty Manso
- JJ MS Didor Manso 690
- JDH Sir Forrest Manso
- JDH Lady Melanie Manso

**JDH Lady Shannon Manso**

- Tattoo: 961/1
- Born: 2/4/2011
- Birth Wt: 82 lbs
- Weaning Wt: 612 lbs

- Erwin is a Long-Made, Big-Ribbed Son of JDH MR Crosby Manso. Erwin is Still Making His Mark in the JT Brahmans' Program and a Sire that Has Seen Use in 7 Different Herds.
- His dam, JDH Lady Shannon Manso, is a Forrest daughter that has produced 4 herd sires in her lifetime.
- Study Erwin's EPD profile and you will find a moderate birthweight bull that impresses for growth, milk, REA and docility.
- Erwin Possesses Flawless Feet and Sheath Design and Combines Depth of Rib with a Massive Hindquarter.

**SexedULTRA Available**

**Erwin in Pasture**

**Erwin EPDs**
A clone of the original, legendary Karu!
Mr Karu 800 carries on the legacy of his namesake, injecting growth, power, phenotype and performance into his offspring.
Conventional and SexedULTRA Semen available domestically. Offspring can be registered as normal.

Reg: 904806
KARU

(+)JDH Dakota Manso 599
JDH Manso Grande 488
JDH Lady Shano Manso
(+)+JJ Didor Crata 389
=JDH Ms. Rem Manso 7

Tattoo: 800-1
Born: 5/5/2011
Birth Wt: lbs

From: STgenetics, TX

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Reg: 858209
NEW YORK

(+)+JDH Karu Manso 800
(+)+JDH Dakota Manso 599
JDH Lady Rem S. Manso
+BNA Double Take Manso
+JDH Audra Manso

Tattoo: 825
Born: 3/10/2006
Birth Wt: 75 lbs
Weaning Wt: 630 lbs

From: STgenetics, TX

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GARLAN

Reg: 855428

JDH Sir Garlan Manso 487/7

(=)JDH Riddell Manso
JDH Lady Lisa Manso

Tattoo: 487/7
Born: 5/1/2006
Birth Wt: 80 lbs

From: J.D. Hudgins – Hudgins Division, TX

- This Riddell Manso Son boasts 6 register of renowns in his pedigree.
- His Sire is a Maternal Performance Sire, so if you are looking to keep replacements, Garlan is the bull to use!
- Plenty of growth with a moderate birth weight.

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SHANK

Reg: 830726

JDH Sir Shank Manso 51/7

(=)JDH Lady Didor Manso 6
JDH Lady Aggie Manso

Tattoo: 51/7
Born: 2/23/2003
Birth Wt: 85 lbs

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

- Shank is a Sire of Champions around the World, with 7 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.

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SG 111/1 “JACK”

Reg: 905592

Mr. SG 111/1 “Jack”

203RR01503

+Mr 3X Maxmillion-Aire56
SRS Miss Cibola 644
+JDH Karu Manso 800
+Miss V8 504/5

Tattoo: 111/1
Born: 10/4/2011
Birth Wt: 71 lbs

From: Becker Livestock Service, TX

- Great outcross option to use back on your Winchester 999 Daughters.
- Blending some of the best genetics of both Red and Grey Brahman.

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Reg: 832160

WINCHESTER

Reg: 832160

+Mr Winchester Magnum 999/3

203RR00473

+HK Passport
Mr. 3X Red Dynasty 75
HK Millionairis 359/2
+HK Mr. America 435/2
+Miss V8 423/4

Tattoo: 999
Born: 6/12/2003
Birth Wt: 70 lbs

Weaning Wt: 600 lbs

From: K-C Ranch, Claudia Andrea Sucerquia Alvarez

- Where to start?! 999 is arguably the most influential Red Brahman bull of all time!
- Winchester Magnum 999 is the sire of champions all over the world.
- Sire of 8 Register of Renowns.

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**966 "PARALLEL"**

Reg: 895379

*Beef@STgen.com     www.STgen.com     866.589.1708*

**HK Passport 624**
**Ms. 3X Red Dynasty 2/5**

Tattoo: 966
Born: 9/19/2010
Birth Wt: 85 lbs

From: HK Cattle, TX

**Parallel** is a son of the Great Passport 624 and out of a favorite HK Donor.
- Structurally sound with good feet, he possesses incredible rib shape and a massive top.
- His calves are correct, stylish and have gained worldwide acceptance.

**EPDs as of Winter 2016**

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**ARQUITECTO**

Reg: 886730

**HK Blueprint**
**Ms. 3X Red Dynasty 1/4**

Tattoo: 920
Born: 6/17/2009
Birth Wt: 90 lbs

From: STgenetics, TX; HK Cattle, TX

**Arquitecto** has made a name for himself around the Brahman world by siring winners in the show ring as well as in the pasture.
- He is sired by HK Blueprint 575 and he transmits his sire’s strong genetic line to his offspring.

**EPDs as of Winter 2016**

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**Visa Volunteer**

- A direct son of HK Visa Brasil 275 out of an “X-Ray” x Passport daughter. His pedigree says it all—the best of the Red Brahman breed in one package!
- Visa Volunteer 244 packs a lot of natural muscling and promises to be, the right RED BRAHMAN bull to use on any pedigree.

**Reg: 916699**  
**203RR01603**  
**VISA VOLUNTEER**  
**HK Visa Volunteer 244**

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**Reg: 921788**  
**203RR01605**  
**MR AMERICA**  
**HK Mr. America 280**

- A paternal brother to the 2015 Houston International Grand Champion Red Bull.
- Sired by the sought out Smokin Gun red bull, who has put his progeny on the map for the Red Brahman breed.
- A bull that possess great bone, big hipped and style.

**Reg: 921788**  
**203RR01605**  
**MR AMERICA**  
**HK Mr. America 280**

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</tbody>
</table>
Czonka is a wide-based, masculine bull, balancing a soggy look with tremendous muscle expression.

- His daughters are moderate, deep-bodied and easy-fleshing.
- Use Czonka to improve bone, volume and feet in your herd

**EPDs as of Spring 2016**

<table>
<thead>
<tr>
<th>EPD</th>
<th>CED</th>
<th>BW</th>
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<th>SC</th>
<th>CEM</th>
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**SexedULTRA**

**Available**

Reg: R10187033  
Farris Czonka 401X

Reg: R10203255  
SOMETHING SPECIAL

**Reg: R10203255  
SOMETHING SPECIAL**

**Reg: R10203255  
SOMETHING SPECIAL**

**EPDs as of Winter 2016**

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</tbody>
</table>

- Ideal daughter-maker in a calving ease package! Recommended for heifers & cows.
- 889Y2 has displayed high fertility with large fixed-time AI breedings, achieving over 70% conception in Brazil.

**From: Lack-Morrison Brangus, NM**

**From: Mound Creek Ranch, TX**
2016 "Wagyu - Champion of the World" qualifier.

- Phenotypically, one of the most impressive sires in the breed. Widely used in the U.S. and Internationally to add muscle, volume and milking ability.
- Red Galaxy's impressive pedigree stacks Hikari and Shigemaru on both sides.
- AA For SCD and F11 free.

Katana is the latest and greatest addition to our Wagyu lineup!

- This incredible mating produced Katana - AA SCD, 10 for Tenderness and BC for GH Exon 5, making Katana a rare find!
- SexedULTRA Semen coming 2017.
SHIGESHIGETANI
Reg: FB14299
CHR Shigeshigetani 542

World K’s Shigeshigetani
CHR Ms Michifuku 2

Tattoo: 542
Born: 2/24/2012

From: Crescent Harbor Ranch, WA

- 542’s sire combines potent marbling with size, growth and tremendous length. His maternal grandsire is Michifuku, who ranks 5th for ribeye area.
- Of 3,800 F1 calves bred by his sire, 90% graded 9+ on the Australian scale for IMF.
- .25 cc straws only.

TAYASU
Reg: FB13499
CHR Hirashige Tayasu 533

Hirashigetayasu J2351
Suzutaka 2

Tattoo: 533
Born: 11/15/2011

From: Crescent Harbor Ranch, WA

- 533 is a muscular bull out of the Kedaka line and should deliver good growth and a larger frame.
- His sire is a trait leader for growth, and 80% of his steer offspring graded A5 for marbling, the highest in Japan.
- AA for SCD and a 7 for Tenderness.
Synchronization Protocols

**BEEF COW PROTOCOLS - 2017**

### 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
- Al
- 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®
- 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®
- 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®
- Heat detect & AI
- treatment day 0
- 7
- 10
- 60 - 66 hr

**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®
- Heat detect & AI
- treatment day 0
- 7
- 5
- 8
- 8±2 hr

- GnRH
- PG
- CIDR®
- Heat detect & AI
- treatment day 0
- 7
- 5
- 8
- 8±2 hr

### 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.

- GnRH
- PG
- CIDR®
- Heat detect & AI
- treatment day 0
- 5
- 8
- 66 ± 2 hr

- GnRH
- PG
- CIDR®
- Heat detect & AI
- treatment day 0
- 5
- 8
- 66 ± 2 hr

* 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.

Approved 9-6-2016

*Beef Reproduction Task Force*
### BEEF HEIFER PROTOCOLS - 2017

#### HEAT DETECTION

**1 Shot PG**

```
<table>
<thead>
<tr>
<th>PG</th>
<th>Heat detect &amp; AI</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>
```

**7-day CIDR®-PG**

```
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<tr>
<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>
```

**MGA®-PG**

```
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<th>Heat detect &amp; AI</th>
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</thead>
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<tr>
<td>14</td>
<td></td>
</tr>
<tr>
<td>33</td>
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</tr>
</tbody>
</table>
```

#### 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.

```
<table>
<thead>
<tr>
<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>
```

**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.

```
<table>
<thead>
<tr>
<th>MGA</th>
<th>Heat detect &amp; AI</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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</tr>
<tr>
<td>36</td>
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</tbody>
</table>
```

**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.

```
<table>
<thead>
<tr>
<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
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</thead>
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</tr>
<tr>
<td>30</td>
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</tbody>
</table>
```

### FIXED-TIME AI (TAI)*

**Short-term Protocols**

**7-day CO-Synch + CIDR®**

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

```
<table>
<thead>
<tr>
<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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</tr>
<tr>
<td>7</td>
<td>54 ± 2 hr</td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>
```

**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.

```
<table>
<thead>
<tr>
<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>8±2 hr</td>
</tr>
<tr>
<td>7</td>
<td>60 ± 4 hr</td>
</tr>
</tbody>
</table>
```

### Long-term Protocols

**14-day CIDR®-PG**

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

```
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<thead>
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<th>CIDR®</th>
<th>Heat detect &amp; AI</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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</tr>
<tr>
<td>14</td>
<td>66 ± 2 hr</td>
</tr>
<tr>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>
```

**MGA®-PG**

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

```
<table>
<thead>
<tr>
<th>MGA</th>
<th>Heat detect &amp; AI</th>
</tr>
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<tbody>
<tr>
<td>14</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>72 ± 2 hr</td>
</tr>
</tbody>
</table>
```

* 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®, estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™.
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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
Beef Customer Service
To order semen or certificates call:
866-589-1708

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22575 State Hwy 6 S, Navasota, TX 77868

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