The best way to predict the future is to Create it
Dear Friends,

It’s hard to believe that fall is here, and before long you will be weaning calves and harvesting crops. We hope you had a great summer and took time out for family time. That is really what makes our lives meaningful!

We are excited to present to you this year’s Fall Update. You will find that it is different than any of our past directories. We have tried to make it more informative and educational. We hope you find it useful and enjoy the new format.

The concept of sexed sorted semen continues to grow, and we have had great feedback and reports from many customers who have used our SexedULTRA 4M® product. In addition, we continue to strive to offer diversity in our sire lineup. Whether you are trying to make a good set of replacement females or your goal is to have a group of steers that will top the grid, we aim to have bulls that will get the job done. We appreciate your patronage but most of all your friendship and look forward to seeing you at the many upcoming events this fall!

Regards,

Lex Carter
Director of Beef Marketing

Aaron M. Arnett
Director of Beef Genetics

All transactions are subject to the Terms and Conditions of Sale found at www.SexingTechnologies.com. Product of the USA. XY® and Sexing Technologies® sex-selected sperm products are made using the proprietary technologies of XY LLC and Inguran LLC, as partially represented by US patents 7,723,116, 6357307, 6604435, and 8623657. Patents Pending worldwide. XY® sex-selected inseminates are packaged as single use artificial insemination doses for heifers not to be divided or used in MOET or IVF procedures. ©2018 Inguran LLC. All rights reserved. STgenetics is a DBA of Inguran LLC. XY® is a registered trademark of XY, LLC. The SexedULTRA and SexedULTRA 4M logos/marks are registered marks of Inguran LLC. The ecobeef logo/mark are trademarks of Inguran LLC. The Sexing Technologies and STgenetics logos/marks are registered marks of Inguran LLC. Data retrieved Jul-Aug/2018 from AAA, RAAA, AHA, ASA, AICA, ABBA, IBBA, and AWA.
A.I. for Sexed Semen

Recommendations

1. A.I. with sexed semen 16-20 hours after first signs of standing heat
2. Regulate
   - Use temperature regulated thawing units
3. Daily
   - Change thawing unit water daily
4. Weekly
   - Clean thawing unit weekly
5. Monitor water temperature with thermometer: 35° to 37°C (95° to 98°F)
6. 45 sec
   - Thaw for approximately 45 seconds
7. Keep semen temperature regulated at 35° to 37°C (95° to 98°F) with A.I. gun warmer
8. 15 min
   - Use thawed semen within 15 minutes of initial thaw

ST Genetics
### Regional Managers

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Region</th>
<th>Office Location</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Jackson</td>
<td>Regional Manager (1)</td>
<td>1</td>
<td>Billings, Montana</td>
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<tr>
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<td>Luke Bradford</td>
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</tr>
</tbody>
</table>

### Beef Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<th>Email</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>
To order semen or certificates call: 866-589-1708
beef@stgen.com

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CALL TO SPEAK WITH ONE OF OUR CUSTOMER SERVICE SPECIALISTS

OUR EXPERIENCED CUSTOMER SERVICE TEAM PROCESSES DIRECT SALES ORDERS, ANSWERS QUESTIONS AND PROVIDES SUPPORT TO MEET YOUR NEEDS.

CALL CENTER
CAN ALSO ASSIST WITH:

✓ A.I. CERTIFICATES
✓ LOCATING A LOCAL SALES PERSON
<table>
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<th>State</th>
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<td>Alabama</td>
<td>Jack Tate, Boaz</td>
<td>256-572-4021</td>
</tr>
<tr>
<td>Arizona</td>
<td>Tom Anderson, St. John’s</td>
<td>928-581-9177</td>
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<tr>
<td></td>
<td>Matt Herrington, Safford</td>
<td>928-322-5841</td>
</tr>
<tr>
<td>Arkansas</td>
<td>Luke Foster, Paragould</td>
<td>870-565-2803</td>
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<tr>
<td></td>
<td>Ricky White, Romance</td>
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<td>Tyler Beaver, Fayetteville</td>
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<tr>
<td>California</td>
<td>Jason Gagnon, Nicasio</td>
<td>559-723-6362</td>
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<td>David Holden, Oroville</td>
<td>530-736-0727</td>
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<td>Cara Ayres, Rogue River</td>
<td>406-531-6131</td>
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<tr>
<td>Colorado</td>
<td>Donald Cox, Cheyenne</td>
<td>307-630-0400</td>
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<td>Matthew Brent, Woodrow</td>
<td>719-740-3268</td>
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<td>Cody Johnson, Holly</td>
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<td>Matt Strand, Otis</td>
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<td>Florida</td>
<td>Britt Gladwell, Ft. Myers</td>
<td>239-229-2181</td>
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<td>Philip John Horvath, Bonifay</td>
<td>850-703-3889</td>
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<td>William Roland, Newberry</td>
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<tr>
<td>Georgia</td>
<td>Wayne Edward Ansley, Cornelia</td>
<td>706-499-3869</td>
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<tr>
<td>Idaho</td>
<td>Phil Mamer, Caldwell</td>
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<tr>
<td></td>
<td>Wesley Ehlers, Shelley</td>
<td>208-357-1912</td>
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<tr>
<td></td>
<td>Steve Udy, Rockland</td>
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<td>Illinois</td>
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<td>John Kirchner, Leaf River</td>
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<tr>
<td>Iowa</td>
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<td>Kyle Marriott, Blanchard</td>
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<td>Gaylon Miller, Fort Scott</td>
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<td>Justus Bartonek, Olmitz</td>
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<td>Kentucky</td>
<td>David Woodall, Russellville</td>
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<td>Kip Sparrow, Frankfort</td>
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<td>Alex Cox, Campbellsville</td>
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<td>Mark Lejeune, Elton</td>
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<td>337-945-3234</td>
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<td>Bryce Slavik, DeWitt</td>
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<td>Michelle &amp; Jeremy Kosal, Deckerville</td>
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<td>Mark Sandness, Fertile</td>
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<td>Joseph Servais, Richey</td>
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<td>Gary Huber, Glendive</td>
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<td>David Siegle, Miles City</td>
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<td>Kevin Dawe, Big Timber</td>
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<td>Patty Nissen-Cross, Chinook</td>
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<td>Victoria Pocha, Ovando</td>
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<td>Jamie Lannen, Clyde Park</td>
<td>406-223-2110</td>
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<td>Justin L. Paulson, Choteau</td>
<td>406-581-9901</td>
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Kate Knoble, West Point 402-237-2039

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Lindsey Grimes Hall, Hillboro 937-763-8115
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Joe Tucker, Galion 419-961-2333

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Tom Michelena, Sheridan 307-752-4085
Seth Christensen, Cove 208-589-9988
Maternal Made is the phenotypic standout and highly favored bull from the 2018 Connealy Spring Bull Sale.

True to his namesake, the dam of Maternal Made is an incredible specimen that defines greatness in both her body type and production record. She records 5 at 106 for WW and 5 at 109 for YW.

Express was the phenotype standout of the 2018 Denver pens that garnered a significant fan base during his display and has amassed an impressive showing record.

Outcross to First Class and other popular pedigrees, Express provides exceptional mating flexibility with no compromises in phenotype.
• From one of the greatest flushes produced at Stevenson’s, Declaration is a remarkable outlier for his unique combination of calving ease, growth and dollar values.

• An upstanding cow family solidifies Declaration with his donor dam having 2 at 117 WR, 1 at 122 YR, 2 at 117 IMF and 2 at 122 RE. His second and third dams have 5 at 110 and 9 at 107 WR respectively.

• Thunderball was the top selling bull from the spring 2018 Sitz sale and is being used at Sitz’ for his potential as a true cowmaker capable of improving udders and creating long-lasting, productive females.

• He maintains top 10% yearling growth in a maternal package that conserves mature frame and weight with SC EPD in the top 1% of the breed.
Exciting New ANGUS Releases

**BLUE SKY**

- Tattoo: 411
- Born: 3/16/2017
- BW: 82 lbs
- WW: 832 lbs
- YW: 1410 lbs
- YSC: 36.5 cm
- YF: 6.1

**Connealy Earnan 076E**
- Musgrave Big Sky
- SAV Primrose 7861
- EXAR Denver 2002B
- Bobcat Lass 411
- Bobcat Lass 601

From: Bobcat Angus, MT

- Blue Sky is the top selling bull from the 2018 Bobcat sale that they will use to carry on the legacy of Big Sky.
- He wraps together an EPD profile to gain genetic ground in a package that made him a Denver yards highlight.

**RESOLVE**

- Tattoo: 7132
- Born: 1/18/2017
- BW: 80 lbs
- WW: 802 lbs
- YW: 1440 lbs
- YSC: 37.0 cm
- YF: 6.1

**PA Power Tool 9108**
- SydGen Multi Tool 2432
- SydGen Ester 9089
- SydGen FATE 2800
- SydGen Dixie Erica 5104
- Werner Dixie Erica 3045

From: Sydenstricker Genetics, MO; Brandt Farms, IA; and High Point Genetics, IA

- Resolve posted incredible performance and ratios that solidify his very unique outcross genetic profile. He is being used in several respected programs for his fresh pedigree with impressive EPDs and phenotype.
- He is a big hipped, long topped sire with outstanding foot quality and a super quiet disposition. Early semen production has been excellent with superior quality.

---

**Multi Trait Excellence**

**Outcross Genomic Standout**
Cattlemaster was the lead bull in an impressive flush with incredible thickness and body mass that was substantiated by a 19.1 square inch ribeye scan.

Cattlemaster’s productive dam records a weaning ratio of 107 on four calves and stems from four consecutive generations of elite Pathfinders.

- Connealy Consensus
  Connealy Consensus 7229
  Blue Lilly of Conanga 16
  S A V Net Worth 4200
  S A V Emblynette 7545
  S A V Emblynette 7260

From: Schaff Angus Valley, ND

• Territory is the featured lot 1 from the 2018 SAV sale proclaimed by Kelly Schaff as potentially the greatest Resource son ever produced. He will be used heavily at SAV to carry forth the Resource lineage in the Schaff program.

• His Density dam has been a favorite at SAV since a calf and is now working in their ET program. She is especially strong for foot and udder quality and has a 104 weaning ratio on her first three calves. His grandam is the dam of SAV Thunderbird.

- Rito 707 of Ideal 3407 7075
  S A V Resource 1441
  S A V Blackcap May 4136
  S A V 004 Density 4336
  S A V Emblynette 3293
  S A V Emblynette 7411

From: Schaff Angus Valley, ND; JP Farms, IL; and ALS Angus, IL
**Exciting New ANGUS Releases**

**SUNBEAM**

Tattoo: 7006  
Born: 8/25/2016  
BW: 80 lbs  
WW: 759 lbs  
YW: 1327 lbs  
YSC: 37.9 cm  
YF: 6.2

- Sunbeam is the ray of light being used at GAR for his big time scan data including a 153 IMF ratio (10.1% actual IMF), proven cow family and elite genetic predictions.
- His elite donor dam is working in the Maplecrest and Hillhouse programs and had 27 progeny scans when Sunbeam sold.

**Massive Built with Elite Carcass**

**Tips for Success with Sexed Semen in Beef Cattle**

- Sexed semen comes in ¼ cc straws and requires either a universal or ¼ cc A.I. gun available from STgenetics.
- Follow all sanitary, thawing and handling recommendations. Thaw semen at 98°F (37°C) for 45 seconds.
- Delay timing of insemination with sexed semen 16-20 hours after first observed estrus (standing heat).
- Cattle that have been observed in estrus tend to have higher pregnancy rates to sexed semen than those inseminated with fixed timing and/or without observed estrus.
- Currently, there are no officially approved or recommended protocols for synchronization and fixed time insemination with sexed semen in beef cattle. However, satisfactory results have been obtained with conventional synchronization protocols when heat detection and delayed timing of insemination were used.
- A preferred approach by the STgenetics team for synchronized females with a fixed time (mass breeding) is to use the following method:

  - **Use sexed semen in all animals with activated heat detection patches 16-20 (responders) hours** after the average first observed heat of the group of active animals and conventional semen in all females without activated heat detection patches (non-responders).

- Talk to your STgenetics representative for recommendations of ST beef sires with known fertility in sexed semen.

**EPDs as of 7/16/2018**

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<th>Production</th>
<th>Maternal</th>
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Feed Efficiency...
Pass it On

It’s The “Must Have” Trait

Identify your most feed efficient animals through testing at the GDC

Each animal will have complete individual feed intake measurements including:

- Feed Efficiency
- Average Daily Gain
- Carcass Ultrasound Evaluation
- Breeding Soundness Exams

Contact Us

About our next scheduled test

For more info

Gustavo Toro
Cell: (832) 331-6680
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gtoro@STgen.com

www.GeneticDevelopmentCenter.com

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Feed Efficiency
The “Must Have” Trait

Feed is the single biggest expense in any livestock operation. As we select for animals that are more efficient, meaning animals that are able to demonstrate gains equal to their contemporaries while consuming less feed, we are not only lowering production costs but also minimizing the environmental footprint of that animal. Our goal through feed efficiency testing is to identify animals that will add more bottom line profit to our customers while at the same time reduce the impact on the environment, which is beneficial to everyone.

What is Residual Feed Intake (RFI)?
RFI is the difference between actual intake and predicted intake based on the animal’s gain, body weight, and composition. Animals on test are expected to eat “x” amount of feed according to their initial weight and target gain. The more they deviate from their expected intake, the more efficient or inefficient they are.

What is Feed Efficiency (FE)?
FE is the amount of feed consumed as compared with the body weight gained, expressed as a ratio – lbs. of feed/lb. of gain.

Bull A and Bull B have similar Average Daily Gain; however, there was about nine pounds difference in daily Intake, making Bull B more profitable.
### Sires that excel in Feed Efficiency

**Capitalist 4504-704**
- **EPDs as of 8/22/2018**
  - Calving Ease: 4
  - Birth Weight: 2.9
  - Weaning Weight: 66
  - Yearling Weight: 128
  - Ribeye Area: 70
  - Marbling: .12
  - Average Daily Gain: 3.36
  - Residual Feed Intake: -4.76

**AAA 18880724**
- **EPDs as of 7/16/2018**
  - Calving Ease: 6.1
  - Birth Weight: .7
  - Weaning Weight: 69
  - Yearling Weight: 110
  - Ribeye Area: .78
  - Marbling: .28
  - Average Daily Gain: 3.41
  - Residual Feed Intake: -5.47

**Black Granite 726**
- **EPDs as of 8/22/2018**
  - Calving Ease: 12
  - Birth Weight: .2
  - Weaning Weight: 69
  - Yearling Weight: 110
  - Ribeye Area: .78
  - Marbling: .28
  - Average Daily Gain: 3.41
  - Residual Feed Intake: -5.47

### Absolute A518E

**EPDs as of 8/22/2018**
- Calving Ease: 11
- Birth Weight: .7
- Weaning Weight: 61
- Yearling Weight: 106
- Ribeye Area: .58
- Marbling: .09
- Average Daily Gain: 3.30
- Residual Feed Intake: -7.30

**Absolute A516E**
- **EPDs as of 8/22/2018**
  - Calving Ease: 6.1
  - Birth Weight: .7
  - Weaning Weight: 48
  - Yearling Weight: 85
  - Ribeye Area: .46
  - Marbling: .77
  - Average Daily Gain: 5.14
  - Residual Feed Intake: -2.29

**Primetime**
- **EPDs as of 8/22/2018**
  - Calving Ease: 12
  - Birth Weight: .2
  - Weaning Weight: 69
  - Yearling Weight: 110
  - Ribeye Area: .78
  - Marbling: .28
  - Average Daily Gain: 3.41
  - Residual Feed Intake: -5.47

**Mystic Hill Mabel 656**
- **EPDs as of 8/22/2018**
  - Calving Ease: 6.1
  - Birth Weight: .7
  - Weaning Weight: 48
  - Yearling Weight: 85
  - Ribeye Area: .46
  - Marbling: .77
  - Average Daily Gain: 5.14
  - Residual Feed Intake: -2.29

**Black Granite 726**
- **EPDs as of 8/22/2018**
  - Calving Ease: 12
  - Birth Weight: .2
  - Weaning Weight: 69
  - Yearling Weight: 110
  - Ribeye Area: .78
  - Marbling: .28
  - Average Daily Gain: 3.41
  - Residual Feed Intake: -5.47

**Mystic Hill Mabel 656**
- **EPDs as of 8/22/2018**
  - Calving Ease: 6.1
  - Birth Weight: .7
  - Weaning Weight: 48
  - Yearling Weight: 85
  - Ribeye Area: .46
  - Marbling: .77
  - Average Daily Gain: 5.14
  - Residual Feed Intake: -2.29

**Primetime**
- **EPDs as of 8/22/2018**
  - Calving Ease: 12
  - Birth Weight: .2
  - Weaning Weight: 69
  - Yearling Weight: 110
  - Ribeye Area: .78
  - Marbling: .28
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**Mystic Hill Mabel 656**
- **EPDs as of 8/22/2018**
  - Calving Ease: 6.1
  - Birth Weight: .7
  - Weaning Weight: 48
  - Yearling Weight: 85
  - Ribeye Area: .46
  - Marbling: .77
  - Average Daily Gain: 5.14
  - Residual Feed Intake: -2.29
$Beef in Angus

Terminal Indices

Terminal indices combine post-weaning and carcass EPDs into one value, allowing for simultaneous multi-trait selection expressed in dollars per head.

The Angus $Beef index includes these EPDs: Post-weaning gain (YW-WW), DMI, CW, MARB, RE and FAT.

Use indices just like EPDs for comparing the expected difference in progeny between two animals.

ANGUS EXAMPLE

Sire A $Beef = $190.00
Sire B $Beef = $150.00

$40.00

Calves from Sire A should be worth, on average $40 per head more than calves from Sire B for feedlot and carcass value.

Input prices and assumptions for the Angus $Beef formula:

FEEDLOT ASSUMPTIONS
- Time on feed: 170 Days
- Ration cost: $240 per dry ton
- Fed market: $131 per cwt. live

CARCASS ASSUMPTIONS
- Quality Components
  - Prime premium (above Choice): $15.00
  - CAB premium (above Choice): $4.00
  - Choice-Select spread: $11.00
  - Standard discount: $-25.00
- Yield Components
  - YG 1 premium: $3.50
  - YG 2 premium: $1.65
  - YG 3 base: $0.00
  - YG 4 & 5 discount: $-12.00
  - Avg. carcass wt., lb: 861
  - Heavyweight discount: $-23.00

STgenetics Top 10 for $Beef

<table>
<thead>
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<th>NAAB Code</th>
<th>Name</th>
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<td>G A R Drive</td>
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Strategies for Using Sexed Male Semen

SEEDSTOCK OPPORTUNITIES

Sexed male semen provides a shift in the sex ratio which unlocks new options to seedstock providers.

- Market more bulls from the same number of cows
- Market the same number of bulls using a smaller cow herd
- Create a higher quality offering of sale bulls with greater selection pressure applied to a larger pool of bulls
- Create custom bulls for specific customer needs

Sexed male semen in tandem with sexed female semen provides the opportunity to customize a breeding program to fit specific needs:

- Breed top cows to sexed female semen from highly maternal bulls to generate replacement heifers.
- Use sexed male semen allows you to use more terminal bulls for customers wanting performance and carcass traits without the terminally bred female counterparts.
- SexedULTRA 4M has proven effective in flushing and IVF, offering the option to select the calf sex from high value donor matings.

COMMERCIAL BREEDING SYSTEMS

Commercial producers can utilize sexed semen to simultaneously enhance their cow herd and add pay weight to a calf crop.

- Breed top cows to maternal bulls that fit your environment and breed the balance of the cows to terminal sires that excel for pounds. This system adds weaning weight of steers over heifers and incorporates high performance bulls with carcass merit that will add even more pounds and excel in the feeding and packing sectors.
- Sexed semen provides convenient crossbreeding. Use sexed female semen to create your $F_1$ replacement heifers from maternal breeds. Breed the $F_1$ females to sexed male semen to create $F_2$ market steers. This system provides maximum heterosis and breed complementarity.
• Response is a powerful Resource son from the dam of Sitz Investment that will add muscle, forerib and base width.
• 2018 has been a breakout year for Response and he is seeing heavy use at Sitz, KG and Hilltop after the outstanding quality and marketability produced with Response’s first calf crop.

**Response**

Tattoo: 405C  
DOB: 2/7/2015  
BW: 85 lbs  
WW: 722 lbs  
From: Sitz Angus Ranch, MT; KG Ranch, MT; and Hilltop Angus, MT

EPDs as of 7/16/2018

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<td>YW</td>
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<td>10</td>
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</table>

**Dividend**

Tattoo: 649C  
DOB: 2/1/2015  
BW: 56 lbs  
WW: 725 lbs  
From: Sitz Angus Ranch, MT; KG Ranch, MT; Raymond & Sons Inc., OR; and Botts Angus Ranch, OR

EPDs as of 7/16/2018

<table>
<thead>
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<th>Production</th>
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<th>Carcass</th>
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</tr>
<tr>
<td>%</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
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</table>

**Capstone**

Tattoo: 5374  
DOB: 2/20/2015  
BW: 76 lbs  
WW: 714 lbs  
From: Hilltop Angus Ranch, MT, and Carter Cattle Co., ID

EPDs as of 7/16/2018

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
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<th>$ Value</th>
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</tr>
<tr>
<td>%</td>
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<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
The Raindance calves are “in a league of their own” according to reports from visitors to SAV this summer with impeccable phenotype and quality. Proclaimed by many as the pick of the record setting flush, Raindance combines the outcross maternal sire Charlo with the breed icon Blackcap May 4136.

Homestead was the crowd favorite and record selling bull at Ellingson’s 2017 sale, representing a much needed opportunity to outcross while improving function and longevity traits. The Homestead sired calves at Ellingson’s are excellent with breed improving structure and style in a growthy, robust package.
Enterprise continues to be the “go to” heifer bull in the LT program because Brent Thiel knows the value of his maternal line… Capitalist, Alliance I87, Bando 9074 and Sitz Value. Enterprise is a perfect choice for commercial heifer programs where unassisted births, calf vigor and outstanding replacement heifers are a requirement.

Foundation is a no doubt foot improver and Brent Thiel says the bull is a consistent favorite of LT Ranch ranch visitors having a quiet disposition and powerful stock bull look. Foundation is an outcross rancher bull rich in traits that aren’t measured on paper.

Concord has become synonymous with calving ease and calf vigor. He is a perfect choice for heifer projects. As the maternal brother to Black Granite, Concord is standout for moderating milk, mature weight and stature while maintaining ribeye in the top 10% of the breed.
• Treasure has passed every test and now displays over 500 progeny records for birth weight. His abilities as a proven heifer bull in tandem with elite growth and carcass quality have been solidified in some of the breed’s toughest contemporary groups.

• Treasure sired the top selling bull in Connealy’s 2018 spring sale and is a consistent sire of daughters that are feminine and broody with exceptional foot quality.

From: Rutherford Ranches, TX

• Legend is differentiating himself as the go-to sire in the industry that combines body mass and substance with a big time genetic profile.

• Legend consistently sires upper-level quality and marketability with standout thickness, capacity and structure that makes the cattle unique.

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

**EPDs as of 7/16/2018**

<table>
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<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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**EPDs as of 7/16/2018**

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<th>Carcass</th>
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<td>YW</td>
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<tr>
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<tr>
<td>ACC</td>
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</tr>
<tr>
<td>%</td>
<td>1</td>
<td>1</td>
<td>20</td>
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</tbody>
</table>
• Storm is a high marbling, elite genomic Rampage son that exceeds expectations for many economic traits and breeds true to his genomic scores.

• His proven dam is possibly his greatest asset bringing all of the performance and maternal goodness of TC Total.

**EPDs as of 8/2/2018**

<table>
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<th>Carcass</th>
<th>$ Value</th>
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<tr>
<td>CED BW WW YW YH SC DOC HP CEM Milk MW MH SEN CW Marb RE FAT SW $B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EPD</td>
<td>ACC</td>
<td>%</td>
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</tr>
<tr>
<td>12  .3  80  140  .7  .49  -1  12.2  19.73  .6 -16.00  64  1.00  1.01  -.018  71.58  199.76</td>
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<td>ACC 0.45  .73  .60  .42  .50  .50  .39  .23  .34  .34  .33  .38  .45  .39  .39  .37  .45  .39  .39  .37</td>
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<tr>
<td>% 10  1  2  20</td>
<td>25</td>
<td>4  20</td>
<td>3  10  2  15  5  1</td>
</tr>
</tbody>
</table>

**PAP:** 40 at 18 mos.

• Drive is the perfect carcass-oriented mating choice for Rampage and Ten X descendants with his bold rib, sensible stature and excellent structure.

• With an 11% actual IMF and 17 sq. in. RE scan, Drive offers genomic and EPD traits in rare air with a unique GAR pedigree that includes Right Time and TC Total.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<tbody>
<tr>
<td>CED BW WW YW YH SC DOC HP CEM Milk MW MH SEN CW Marb RE FAT SW $B</td>
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<tr>
<td>EPD</td>
<td>ACC</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>14  -1.0  61  109  .2  1.06  19  13.8  9  39  10  0  -28.80  47  .65  .57  .069  77.13  147.82</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACC 0.45  .63  .56  .51  .39  .55  .35  .19  .31  .32  .29  .34  .43  .37  .37  .34  .43  .37  .37  .34</td>
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</tr>
<tr>
<td>% 25  10  25  20</td>
<td>10</td>
<td>1</td>
<td>25</td>
</tr>
</tbody>
</table>

**PAP:** 42 at 18 mos.

• Apache is one of our favorites for calving ease with added physical quality. He is a perfect mating for Capitalist offspring and consistently injects a clean front, smooth shoulder and square hip.

• Apache has a bulletproof maternal stack and excellent semen quality characteristics with many reports of superior fertility.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>EPD</td>
<td>ACC</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>10  -1.0  61  109  .2  1.06  19  13.8  9  39  10  0  -28.80  47  .65  .57  .069  77.13  147.82</td>
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</tr>
<tr>
<td>ACC 0.45  .63  .56  .51  .39  .55  .35  .19  .31  .32  .29  .34  .43  .37  .37  .34  .43  .37  .37  .34</td>
<td></td>
<td></td>
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<tr>
<td>% 25  10  25  20</td>
<td>10</td>
<td>1</td>
<td>25</td>
</tr>
</tbody>
</table>

**PAP:** 42 at 18 mos.
**POWERPOINT**

- Tattoo: 5503
- Born: 2/19/2015
- BW: 68 lbs
- WW: 823 lbs
- YW: 1439 lbs
- YSC: 35.6 cm
- YF: 6.0

**Uncontested**

- Tattoo: 6209
- Born: 2/9/2016
- BW: 80 lbs
- WW: 833 lbs
- YW: 1394 lbs
- YSC: 37.0 cm
- YF: 5.8

- As one of our top sellers in 2018, Powerpoint has solidified his place as a heifer safe sire with extra substance and capacity demanded for rugged country.
- Some of the most respected stockmen are tapping into this marbling specialist for his outcross calving ease with no sacrifices in performance and consistent visual appeal to the calves.

- The first progeny from Uncontested are setting the bar high for performance cattle in the right package. Cory Poser reports several of the standout calves in his 2018 calf crop are sired by Uncontested.
- With his incredible record including a 120 WW ratio and 113 YW ratio plus 127 and 115 IMF and ribeye ratios, Uncontested is a great option for multi-trait improvement in each mating.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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<tr>
<td>EPD</td>
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| ACC | .66 | .84 | .76 | .66 | .62 | .66 | .69 | .21 | .30 | .30 | .33 | .36 | .47 | .42 | .42 | .40 |
| % | 10 | 15 | 10 | 10 | 10 | 15 | 10 | 10 | 10 |

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$Value</th>
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<tr>
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<tr>
<td>EPD</td>
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</table>

| ACC | .38 | .55 | .43 | .49 | .49 | .36 | .20 | .31 | .31 | .30 | .36 | .41 | .39 | .37 | .35 |
| % | 10 | 15 | 10 | 5 | 15 | 20 | 5 | 15 | 20 | 1 |
Ozzie offers a maternal sire stack designed to make easy fleshing, hard working cows that will excel in any environment and consistently sire excellent udder quality.

He is a consistent sire of more visual muscle than expected at his level of CED and brings a unique combination of EPDs in the top 10% of the breed or better, including modest mature stature and weight.

**Ozzie off ers a maternal sire stack designed to make easy fleshing, hard working cows that will excel in any environment and consistently sires excellent udder quality.**

**He is a consistent sire of more visual muscle than expected at his level of CED and brings a unique combination of EPDs in the top 10% of the breed or better, including modest mature stature and weight.**

### Ox Bow Ozzie 3233

- **Tattoo:** 3233
- **YW:** 1411 lbs
- **DOB:** 1/27/2013
- **SC:** 36.1 cm
- **BW:** 72 lbs
- **WW:** 768 lbs
- **From:** Ox Bow Ranch, MT, and Koupal Angus, SD

### EPDs as of 7/16/2018

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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<td>.80 .75 .70 .45 .60 .61 .26 .34 .41 .36 .40</td>
<td>.51 .45 .46 .45</td>
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<tr>
<td>%</td>
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</table>

### PAP: 40 at 3 years

AAA 17663847

**Ozzie**

<table>
<thead>
<tr>
<th>Boyd New Day 8005</th>
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<tbody>
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<td>Ox Bow Blackbird 1139</td>
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<td>Ox Bow Blackbird 930</td>
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</table>

**Tattoo:** 3233

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<td>.51 .45 .46 .45</td>
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<tr>
<td>%</td>
<td>15</td>
<td>20 10 10 20 10 10 20 4 25</td>
<td></td>
</tr>
</tbody>
</table>

AAA 18268046

**Accelerate**

- **Tattoo:** 5264
- **YW:** 1443 lbs
- **DOB:** 3/21/2015
- **SC:** 37.8 cm
- **BW:** 75 lbs
- **WW:** 843 lbs
- **From:** Ellingson Angus, ND

### EPDs as of 7/16/2018

<table>
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<th>Production</th>
<th>Maternal</th>
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<tr>
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AAA 18532396

**Steadfast**

- **Tattoo:** 635
- **YW:** 1450 lbs
- **DOB:** 1/19/2016
- **SC:** 37.0 cm
- **BW:** 79 lbs
- **WW:** 816 lbs
- **From:** McCumber Angus, ND; Koupal Angus, SD; and Frederickson Angus, SD

### EPDs as of 7/16/2018

<table>
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<td>CW Marb RE FAT SW $B</td>
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</table>

AAA 18268021

**Sinclair Fortunate Son**

- **McCumber Titanium 3127**
- **Miss Wix 926 of McCumber**
- **O C C Tremendous 619T**
- **Miss Wix 2003 of McCumber**
- **Miss Wix 2022 HC McCumber**

- **Tattoo:** 635
- **YW:** 1450 lbs
- **DOB:** 1/19/2016
- **SC:** 37.0 cm
- **BW:** 79 lbs
- **WW:** 816 lbs
- **From:** McCumber Angus, ND; Koupal Angus, SD; and Frederickson Angus, SD

### EPDs as of 7/16/2018

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<td>15 15 15 15 15 15 15 15 15 15 15</td>
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</table>
**SURVEILLANCE**

Tattoo: 4129  
Born: 4/12/2014  
BW: 81 lbs  
WW: 775 lbs  
YW: 1312 lbs  
YSC: 36.5 cm  
YF: 6.1

- As the premier outcross show sire available in the Angus breed, Surveillance can be used on daughters of First Class, Style, Lutton, Primo and many others.
- Alan Miller says Surveillance is one of the top phenotype bulls ever produced at Prairie View Farms and his list of major show winners continues to grow.

From: Prairie View Farms, IL

---

**WEIGH UP 294**

Tattoo: 294  
Born: 2/22/2014  
BW: 68 lbs  
WW: 799 lbs  
YW: 1457 lbs  
YSC: 38.5 cm  
YF: 6.3

- 294 is the biggest hipped, deepest flanked Weigh Up son we have encountered, with a hard-to-find pairing of neck and shoulder extension with added muscle and power.
- If you want a different kind of Angus bull with extra body mass while staying in bounds for calving ease, look no further than 294!

From: J&J Angus, SD; JK Angus, SD; and Badger Creek Cattle Co., KS

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**EPDs as of 7/16/2018**

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<td>RE 38 38</td>
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<tr>
<td>$B 10 10</td>
<td></td>
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</tr>
</tbody>
</table>

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**Impressive Weigh Up Son**
If you are looking for a uniquely bred high genomic sire that checks all the boxes, Black Onyx is your bull. He is the only Black Granite son in the breed with his tandem of calving ease and growth.

Out of a full sister to Rampage, Black Onyx has proven performance genetics stacked throughout his elite pedigree that propel him to top 1% for $W and $B.

- **Tattoo**: 5Q11  
  - **DOB**: 9/21/2015  
  - **BW**: 77 lbs  
  - **WW**: 692 lbs  
  - **From**: Quaker Hill Farm, VA, and Wild Wind Angus, VA

EPDs as of 7/16/2018

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<tr>
<td>13</td>
<td>.37</td>
<td>.53</td>
<td>.46</td>
</tr>
</tbody>
</table>

His first calf crop is substantiating Ramp Up as a true performance outlier. The calves are big outlined, thick topped and eye appealing. Several sons are already slated sale features for the 2019 High Point Genetics sale in Iowa.

- **Tattoo**: 5812  
  - **DOB**: 10/3/2015  
  - **BW**: 82 lbs  
  - **WW**: 869 lbs  
  - **From**: Deer Valley Farm, TN, and High Point Genetics, IA

EPDs as of 7/16/2018

<table>
<thead>
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</tr>
<tr>
<td>8</td>
<td>.36</td>
<td>.55</td>
<td>.48</td>
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</tbody>
</table>

Charged Up embodies the meaning of power bull and ratioed 121 for WW and 118 for YW in his competitive group. When people see him, they want to use him.

- **Tattoo**: 44T  
  - **DOB**: 2/6/2016  
  - **BW**: 80 lbs  
  - **WW**: 907 lbs  
  - **From**: Hilltops Angus Farm, SD, and Weigel Angus Ranch, ND

EPDs as of 7/16/2018

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
<th>$ Value</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>2</td>
<td>.36</td>
<td>.55</td>
<td>.48</td>
</tr>
</tbody>
</table>
Reload is creating quite a stir in 2018 with a first set of yearling progeny that impressed breeders and topped sales.

Reload is a maternal brother to Sitz Logic with a strong maternal pedigree. Use him to improve feet, add fleshing ability and conserve mature stature and weight.

Rito 707 of Ideal 3407 7075
SAV Resource 1441
Connealy Thunder
Sitz Forever Lady 612T
Sitz Forever Lady 63M

From: Sitz Angus Farm, MT, and Gartner-Denowh Angus Ranch, MT

EPDs as of 7/16/2018
CED BW WW YW YH SC DOC HP CEM Milk MW MH $EN CW Marb RE FAT $W $B
EPD 8 .7 .56 .111 -.2 1.18 21 11.7 4 35 -.8 -3 -21.42
ACC .41 .74 .69 .63 .71 .65 .67 .28 .34 .35 .34 .38
% .46 .41 .41 .40 .25 .20 .40

Paternal Granddam SAV Blackcap May 4136

Summitt is a unique sire that combines two of the most prolific and well-known cows in the Angus breed, SAV Blackcap May 4136 and Coleman Donna 714!

He was the high selling bull in the ZWT Ranch sale and the selection of Coleman Angus to incorporate SAV Renown with the great Donna lineage.

Rito 707 of Ideal 3407 7075
SAV Renown 3439
Connealy Onward
Coleman Donna 714
Coleman Donna 386

From: ZWT Ranch, TN; Lawson Family Farms, VA; and Coleman Angus, MT

EPDs as of 7/16/2018
CED BW WW YW YH SC DOC HP CEM Milk MW MH $EN CW Marb RE FAT $W $B
EPD 10 .6 .65 .115 .1 .46 37 8.4 7 24 0 -3.11 35 .34 .76 .002 63.74 113.02
ACC .38 .52 .46 .43 .43 .46 .41 .23 .36 .37 .35 .38
% .41 .38 .37 .34 .20 .15 .15
**ANGUS Sires**

### EXTENSION

- **Tattoo:** 6856
- **DOB:** 1/6/2016
- **BW:** 83 lbs
- **WW:** 950 lbs
- **From:** Schaff Angus Valley, ND, and Ingram Angus, TN

*SAV Extension is a paternal brother to SAV Elation, the 2018 record seller at Schaff’s and a son of the great SAV Blackcap May 4136, proclaimed by many as the model Angus cow and dam of many famous A.I. sires.*

*Extension was the top selling and featured XXP son from the 2017 SAV sale and continues to be an important part of the Ingram and Schaff breeding programs.*

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
<th>Maternal</th>
<th>Carcass</th>
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<tr>
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<td>.49</td>
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</table>

### LONG SHOT

- **Tattoo:** 71D
- **DOB:** 1/17/2016
- **BW:** 81 lbs
- **WW:** 781 lbs
- **From:** Hamilton Farms, Alberta, CA, and Talkington Angus Ranch, ND

*If your goals include forage adaptability and fleshing ability in rugged country, Long Shot should be on your radar. He’s bold ribbed and free moving with uncommon depth and capacity.*

*Long Shot was the standout in the Denver pens for Hamilton Farms in 2017 and one of the most talked about bulls in the yards.*

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
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<td>.52</td>
<td>.46</td>
<td>.41</td>
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### RAMPART

- **Tattoo:** 5245
- **DOB:** 1/18/2015
- **BW:** 69 lbs
- **WW:** 770 lbs
- **From:** Connealy Angus Ranch, NE, and Koberstein Farms, CO

*Rampart sired one of the consistently favored and distinguished sire groups in Connealy’s 2018 spring sale that included several high sellers and a stud bull.*

*He excelled every time he was measured in his contemporary group of over 500 at birth and weaning, over 400 at yearling, and is an excellent choice for Final Answer and Capitalist daughters.*

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>Production</th>
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<th>Carcass</th>
<th>$ Value</th>
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<td>.66</td>
<td>.60</td>
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</tbody>
</table>
Genomics 101

Genomics:
The study of the entire DNA set of an animal.

What are SNPs?
There are areas of DNA that have been associated with economically important traits in beef cattle like birth weight and weaning weight. These areas commonly contain variations in genetic code called Single Nucleotide Polymorphisms (SNPs).

There may be hundreds or even thousands of SNPs associated with a single trait like weaning weight or marbling. When an animal is genomic tested, it is assigned a genetic value based on the combination of SNPs that are present.

EPDs vs Genomic Scores
It is important to remember that genomic scores are just one piece of information that is used to calculate EPDs, and the most accurate selection decisions can still be made using the EPD for a trait rather than the genomic score alone.

Predicting with Genomics
Genomics are especially helpful in predicting the genetic merit of young or unproven animals. Depending on the trait, a genomic test can provide EPD accuracy in a young bull equivalent to the accuracy of having sired 8-33 calves (see below). Genomics are also valuable for difficult and/or expensive traits to measure like carcass traits in breeding stock and maternal traits in bulls.

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<tr>
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<td>Weaning Weight</td>
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</tr>
<tr>
<td>Yearling Weight</td>
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</tr>
<tr>
<td>Dry Matter Intake</td>
<td>8</td>
</tr>
<tr>
<td>Yearling Height</td>
<td>11</td>
</tr>
<tr>
<td>Scrotal Circumference</td>
<td>13</td>
</tr>
<tr>
<td>Docility</td>
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</tbody>
</table>

PE = Progeny Equivalent
Source: Angus Genetics, Inc., Jan. 2018

Angus genomic scores are available on our website at www.stgen.com, click Beef, and click Angus.
Wideload 78B intrigues me with his muscle and overall thickness. But his structural soundness and flawless foot design set him apart. He moves like a cat. His progeny are moderate and full red meat. We have used him successfully on heifers.

Ky Luddington
Luddington Cattle Co.
• The first Draft Pick calves arrived this spring with ideal calving ease and calf vigor. Use him with confidence on heifers or cows and enjoy the infusion of some of the great cow families of the Red Angus breed, including Jolene, Blockana and Abigrace.

• Draft Pick is a high performance sire that started out with a 60 lb. actual birth weight and went on to ratio 115 at weaning and he ranks high for Marbling and Ribeye, placing him near the top of the breed for GridMaster index.

Tattoo: 413D  
Born: 1/19/2016  
BW: 60 lbs  
WW: 677 lbs  
YW: 1232 lbs  
YSC: 35.0 cm  
YF: 5.8

DOES IT ALL

SIR LOIN

Tattoo: 5122  
Born: 4/3/2015  
BW: 76 lbs  
WW: 621 lbs  
YW: 1340 lbs  
YSC: 39.1 cm  
YF: 5.8

• Use Sir Loin as a calving ease specialist who consistently sires high capacity, easy fleshing cattle that excel for structural integrity and docility.

• His genetic contributions to added stayability and marbling lend themselves to profitability in many segments of production.

HXC Conquest 4405P
LSF Takeover 9943W
LSF Wideload R5014 U8061
Brown Ms Paramount A7033
Brown Ms Mission STMT W7525

From: Bledsoe Bros., CO
• Here is an opportunity to make multi-trait improvement in one generation from a bull with Exceptional genetics, pedigree, program and performance.

• Exceptional is a maternal brother to LSF Takeover and appropriately named with his hard-to-rival blend of traits including Stayability, Marbling, and HerdBuilder all in the top 2% of the breed or better.

From: Ludvigson Stock Farms, MT

Tattoo: 5464C
Born: 4/9/2015
BW: 85 lbs
WW: 678 lbs
YW: 1344 lbs
YSC: 36.6 cm
YF: 6.0

- Beckton Nebula P P707
- Brown JYJ Redemption Y1334
- JYJ Ms Jolene W16
- Messmer Packer S008
- LSF Wideload R5014 U8061
- LSF Wideload N3195 R5014

• Brave is as soggy, deep and wide as they come with incredible body mass that Craig Bieber compares to Rollin Deep.

• He is an ET son of Bieber’s favorite Fusion daughter and his granddam, Basin Eldorene is now working in the 9 Mile program with 33 progeny to her credit.

From: Bieber Red Angus Ranch, SD

Tattoo: E573
Born: 3/16/2017
BW: 98 lbs
WW: 864 lbs
YW: 1467 lbs
YSC: 36.5 cm
YF: 6.0

- Bieber Rouse Samurai X22
- Bieber Spartacus A193
- Bieber Tilly 233U
- Andras Fusion R236
- Bieber Eldorene 114W
- Bieber Eldorene 246C

From: Bieber Red Angus Ranch, SD
Across Breed EPDs

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<td>0.51</td>
<td>-0.105</td>
<td>-2.9</td>
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</table>

*Marbling score units: 4.00 = $L^{100}$; 5.00 = $Lm^{100}$

Normally, the EPDs of animals from different breeds cannot be compared because most breed associations compute their EPDs in separate analyses, and each breed has a different base point. Thus, EPDs are generally only comparable within breed because of differences in the genetic base.

Example

Combine the EPD of each bull with its across-breeds adjustment factor from the table to get the Across-Breed EPD.

Subtract the adjusted value of the second bull from the adjusted value of the first bull to determine the expected EPD difference of offspring when both are mated to cows of another breed.

Example Charolais Hereford

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<thead>
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<th></th>
<th>Charolais</th>
<th>Hereford</th>
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<tbody>
<tr>
<td>Weaning Weight</td>
<td>+25.0 lbs</td>
<td>+70.0 lbs</td>
</tr>
<tr>
<td>Across-Breed WW Adjust</td>
<td>+32.5 lbs</td>
<td>-18.2 lbs</td>
</tr>
<tr>
<td>Across-Breed EPD</td>
<td>25.0 + 32.5</td>
<td>70.0 - 18.2</td>
</tr>
<tr>
<td>Expected WW Mated to Angus</td>
<td>57.5 lbs</td>
<td>51.8 lbs</td>
</tr>
</tbody>
</table>

= 5.7 lbs for Charolais
**Baldy Maternal Index (BMI$)**

The BMI$ is a maternally focused index that has significant weight on Sustained Cow Fertility. There is a slightly positive weighting on Weaning Weight, Mature Cow Weight and Milk. There is some negative emphasis on Dry Matter intake but with positive weighting on Carcass Weight. Marbling and Ribeye area are also positively weighted in the index. This index is geared to identify Hereford bulls that will be profitable when crossed with Angus cows.

**Brahman Influence Index (BII$)**

The BII$ is a maternally focused index based on a production system that uses Brahman X Hereford cross cows. The weighting of different traits in the index is similar to the BMI$. This index targets producers using Hereford bulls on Brahman influence cows.

**Certified Hereford Beef Index (CHB$)**

The CHB$ is a terminal index targeted for CHB after the finishing phase. It has significant weight on Carcass Weight to ensure profit on the rail. There is a positive weighting for Average Daily Gain along with a negative weighting on Dry Matter Intake. Although Marbling is weighted positively in the index, a positive weighting for Ribeye Area and a negative weighting for Back Fat are a great priority in this index to allow for optimum end-product merit.

---

**Homeland**

- Tattoo: C34
- Born: 1/29/2015
- BW: 70 lbs
- WW: 672 lbs
- YW: 1140 lbs
- YSC: 35.0 cm
- YF: 6.0

**Attributes**

- **Homozygous Polled**
- **Cowman’s Kind**

**Achievements**

- Homeland is a popular homozygous polled member of the STgenetics roster and one of the best all-around sires in the breed for consistently providing multi-trait improvement with a body type breeders favor.
- He compliments most breeding objectives with his dark red, short marked color and red eyes. His Proficient dam is a model cow in the KCF program and his grandmother is a preeminent flush sister to Encore’s dam.

**Pedigree**

- SHF Wonder M326 W18 ET
- NJW 73S W18 Hometown 10Y ET
- EFBEEF SCHU-LAR Proficient N093
- KCF Miss Proficient A47
- KCF Miss Revolution Y102 ET

**From:** Knoll Crest Farm, VA

**EPDs as of 7/16/2018**

| CED  | BW   | WW  | YW  | DMI | SC  | SCF | MILK | M&G | CEM | MCW | UDD | TEAT | CW  | FAT | REA | MARB | BMI | BII | CHB |
|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8.2  | 1.4  | 64  | 108 | 1.0 | 1.2 | 19.3 | 33  | 65  | 2.4 | 122 | 1.50| 1.50| 79  | .045| 52  | .50 | 30  | 27  | 31  |
| .39  | .57  | .45 | .47 | .15 | .15 | .16 | .21  | -  | .21 | .31 | .39 | .39 | .22 | .28 | .22 | .23 | -  | -  | -  |
Sam Shaw says Mandate is “the best bull we’ve ever produced.” He stems from a very productive cow family and an 8 year old dam with impeccable udder quality who records four natural calves at 98 for BW and 117 for WW and has 25 progeny that ratio 106 for IMF.

Not only does he offer ideal pigment and color, but this big bodied tank builds his mass and volume on excellent feet and bone. Mandate promises to be a calving-ease specialist and ranks in the top 10% of the breed for 13 different traits.

Hyalite On Target 936
R Leader 6964
SHF Rib Eye M326 R117
/S Lady Domino 0158X
Tattoo: 66589 YW: 1115 lbs
DOB: 8/31/2016 YSC: 41.0 cm
BW: 73 lbs YF: 6.0
WW: 606 lbs
From: Shaw Cattle Company, ID

EPDs as of 7/16/2018

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CHIEF

TH 122 71I Victor 719T
TH 49U 719T Sheyenne 3X
TH 23S 103R Duchess 49U
MSU TCF Revolution 4R
PCR Rhonda Shelli 330A
PCR IDA Shelli 106Y
Tattoo: PCR507C YW: 1346 lbs
DOB: 3/15/2015 YSC: 38.2 cm
BW: 76 lbs YF: 6.3
WW: 743 lbs
From: Phil and Chris Rottman, MI

EPDs as of 7/16/2018

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4013

EFBEEF Foremost U208
EFBEEF TFL U208 Tested X651 ET
EFBEEF P606 Mabel R415
EF F745 Frank P230
Innisfail P230 T723
Innisfail 235 R501 ET
Tattoo: IF4013 YW: 1212 lbs
DOB: 9/10/2014 YSC: 37.4 cm
BW: 95 lbs YF: 6.2
WW: 597 lbs
From: Innisfail Farm, GA, White Hawk Ranch, GA, and Mohican West, MT

EPDs as of 7/16/2018

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**NEW**

**Advancing 628**

- **HH Advance 1013Y ET**
- **HH Advance 4075B ET**
- **CJ Harland 408**
- **FHF 408 Rita 21W**
  - **FHF 45P Rita 101T**

**Tattoo:** 628  
**YW:** 1380 lbs  
**DOB:** 2/20/2016  
**YSC:** 36.1 cm  
**BW:** 91 lbs  
**YF:** 6.1  
**WW:** 660 lbs  
**From:** Fawcett's Elm Creek Ranch, SD; Frederickson Ranch, SD; Harrell CC, IL; and Hoffman Ranch, NE

- Powerfully built and red to the ground, Advance 628 was a member of Hoffman’s 2017 NWSS Champion Carload and went on to be the top selling bull in their 2017 sale. He offers one of the elite pedigrees available in the Hereford breed.
- A full sister to 628 commanded $100,000 in Hoffman’s 2017 female sale and Nate Fredrickson proclaims his donor dam to be one of the best females ever in his program. 628 is available to advance the maternal, genetic and physical quality of your breeding program.

**EPDs as of 7/16/2018**

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**NEW**

**Nightcap**

- **LJS Mark Domino 0945**
- **LJS Ms Mark Domino 1125**
- **Cl 1 Domino 144Y 1ET**
- **Churchill Lady 302A**
  - **Churchill Lady 9134W**

**Tattoo:** 7256  
**YW:** 1310 lbs  
**DOB:** 3/4/2017  
**YSC:** 36.5 cm  
**BW:** 76 lbs  
**YF:** 5.7  
**WW:** 742 lbs  
**From:** Churchill Cattle Company, MT, and Gemstone Cattle Company, AB, CN

- Nightcap was the high selling bull from the 2018 Churchill sale, offering outcross calving-ease horned genetics. He has been selected for the AHA National Reference Sire program.
- With a soft rib, ideal structure and 100% pigmentation backed by a powerful dam, Nightcap has all the traits demanded by progressive Hereford breeders.

**EPDs as of 7/16/2018**

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**NEW**

**Flintlock**

- **Churchill Sensation 028X**
- **Bar S LHF 028 240**
- **Churchill Lady 078X**
- **LJR 023R Whitmore 10W**
- **LJR MSU Whitney 182Z**
  - **LJR MSU Tessa 305X**

**Tattoo:** 5815  
**YW:** 1230 lbs  
**DOB:** 3/20/2015  
**YSC:** 38.7 cm  
**BW:** 78 lbs  
**YF:** 6.0  
**WW:** 840 lbs  
**From:** Copeland & Sons Herefords, NM

- From the respected Copeland & Sons Ranch in New Mexico, Flintlock has range survivability and longevity infused from generations of great cows in his lineage. His beautiful uddered dam is a feminine, dark-red cow that records 3 @ 107 for WW.
- Flintlock is a paternal brother to the 2017 NWSS Grand Champion Hereford bull and a calving ease specialist that’s smooth shouldered and deep-bodied.

**EPDs as of 7/16/2018**

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Calving Ease

In surveys completed by Livestock Publications where producers are asked what traits are most important in a prospective sire, Calving Ease is always at the top of the list.

Here are a few things to remember about Calving Ease:

- It is preferable to select for CED rather than Birth Weight.
- Heifers that calve unassisted are much more likely to breed back on time.
- Remember that with CE EPDs, the higher the number, the more calving ease the sire.

Consider the accuracy when selecting a Calving Ease prospect. The higher the accuracy, the higher the confidence level in the EPDs.

Calving ease is expressed as a percentage of unassisted births in heifers:

If Sire A has a calving ease EPD of +10 in heifers and Sire B has a calving ease EPD of +15, then you would expect 5% more of Sire B’s calves to come unassisted compared to Sire A.

Angus

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Hereford

<table>
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<tr>
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<tr>
<td>551HP01613</td>
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<td>Chief</td>
<td>13</td>
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<td>Nightcap</td>
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Charolais

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<tr>
<td>551CH01502</td>
<td>Foreman</td>
<td>17</td>
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**All-Purpose Index (API)**

Evaluates sires for use on the entire cowherd. It has a maternal focus since some females will be retained in the herd for replacements but also has some weighting on growth and carcass traits since some animals will be put on feed and sold grade and yield.

**Terminal Index (TI)**

As indicated by the name, the TI index is a terminal index designed for cattle that will be fed and marketed on a grid.

---

**ASA 2854467**

**BLACK HAWK**

Hybrid ¾ SM ¼ AN  

<table>
<thead>
<tr>
<th>Hook's Xavier 14X</th>
<th>Hook's Patti 3P</th>
<th>Hook's Quest 86U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hook's Yvette 100Y</td>
<td>Hook's Savannah 14S</td>
<td></td>
</tr>
</tbody>
</table>

**Tattoo:** 50B  
**YW:** 1244 lbs  
**DOB:** 3/20/2014  
**BW:** 78 lbs  
**WW:** 698 lbs  

**From:** Hook Farms, MN; Robert Cambell, CO; Bridle Bit Simmental, CO; T-Heart Ranch, CO; and Southern Cattle Co., FL

- **Blackhawk** was one of the breed’s shining stars in the transition to BOLT EPDs with elite API and TI resulting from a long list of traits for which he excels.
- **Use Blackhawk** to add capacity and fleshing ability in sensible frame size with a broody, cowmaker look.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>MILK</th>
<th>MWW</th>
<th>STAY</th>
<th>DOC</th>
<th>CW</th>
<th>YG</th>
<th>Marb</th>
<th>BF</th>
<th>REA</th>
<th>Shear</th>
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<td>-0.32</td>
<td>0.50</td>
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<td>0.41</td>
<td>0.53</td>
<td>0.17</td>
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<tr>
<td>67%</td>
<td>82%</td>
<td>78%</td>
<td>76%</td>
<td>49%</td>
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**ASA 2984501**

**CONQUEST**

Hybrid ½ SM ½ AN  

<table>
<thead>
<tr>
<th>S A V Final Answer 0035</th>
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<tbody>
<tr>
<td>K C F Bennett Absolute</td>
</tr>
<tr>
<td>Hooks Solemn 3345</td>
</tr>
<tr>
<td>ESJ4</td>
</tr>
</tbody>
</table>

**Tattoo:** 634C  
**YW:** 1359 lbs  
**DOB:** 2/11/2015  
**BW:** 90 lbs  
**WW:** 699 lbs  

**From:** Clear Springs Cattle Co., MN, and Maplecrest Farms, OH

- **The first Conquest calves** have their sire’s impressive body type and made sale topping bulls and elite replacement heifers. He is being used heavily in the Hook and Wulf programs.
- **Conquest** is one of the best for combining economically relevant traits and indexes high for both API and TI in the new BOLT system.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th>CE</th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>MCE</th>
<th>MILK</th>
<th>MWW</th>
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<th>DOC</th>
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<td>15</td>
<td>15</td>
<td>3</td>
<td>5</td>
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</tbody>
</table>
**ELEVATION**

- Hook's Yellowstone 97Y
- LRS Elevate 213B
- LRS Ms Dual Focus 213Z
- MCM Top Grade 018X
- RFG Forever Lady C231
- RFG Ruby W228

Tattoo: 727E  
YW: 1373 lbs

DOB: 2/12/2017  
YSY: 39.0 cm

BW: 80 lbs  
YF: 5.8

WW: 837 lbs

From: Lee Cattle Co., CO, Rossman Farms and K-LER Cattle Co., MN

- Elevation is an exciting new purebred to our lineup that was the top selling bull in the 2018 Denver Simmental Sale to Lee Cattle Company.
- His beautiful dam is a tremendous representation of ideal udder and foot quality. His top staybility EPD confirms the cow power and maternal quality infused in Elevation's ancestry.

**AUTHORITY**

- NF Trump S582
- CDI Authority 77X
- CDI MS Crocket 88T
- Westfall Voyager 721P
- OBCC MS Tailor 14TW
- OBCC MISS Tailor 14T

Tattoo: W14C  
YW: 1262 lbs

DOB: 2/21/2015  
YSY: 37.2 cm

BW: 78 lbs  
YF: 5.9

WW: 704 lbs

From: Owen Bros. Cattle Company, MO, and C-4 Land and Cattle, OK

- Authority is the perfect purebred to outcross with Dream On descendants!
- The heifers by Authority have depth and mass complimented by femininity and the bulls are stout and thick. Use Authority anywhere fancy cattle are desired with all the power necessary to back it up.

**BOUNTY**

- Mr NLC Upgrade U8676
- MCM Top Grade 018X
- MCM 513R
- Hook's Titus 31T
- Hook's Yuma 49Y
- Hook's Universal 17U

Tattoo: 6B  
YW: 1506 lbs

DOB: 2/23/2014  
YSY: 39.0 cm

BW: 86 lbs  
YF: 6.5

WW: 792 lbs

From: Hook Farms, MN, and Gonsalves Ranch, CA

- Bounty consistently delivers on the promise of top 1% weaning weight and top 1% ribeye. Bounty cattle are powerful in their design with a big hip and deep flank. He is perfect for both crossbreeding and making better purebreds.
- Bounty now has impressive daughters in production. With his top 1% stayability EPD, rest assured these cattle are great uddered with outstanding feet and joints.
Terminal Sire Index (TSI)

TSI utilizes economic and management descriptions of ranching operation along with EPD on available Charolais bulls to assist in identifying the most profitable sires for your unique operation. The TSI represents a dollar index designed to compare the profitability of progeny of different sires put on feed and marketed based on economic values taken from USDA data based on a three-year rolling average.

The Resource progeny are elevating him as one of the breed’s best for visual appeal and quality. He sired the Grand Champion Female at the 2018 Charolais Junior National and a record setting son in Wright’s 2018 Bull Sale. Resource was a member of the 2015 Champion Pen of Three in Denver.

Don’t forget his genetic profile! Resource excels in so many aspects for commercial and registered herds and is out of a beautiful, productive Blue Value daughter.

LC Rio Bravo 3181 P
LT Rushmore 8060 PLD
LT Branda’s Ease 3055 PLD
LT Blue Value 7903 ET
WC CCC Blue Girl 1528 P
CCC Bad Girlfriend U146 P ET

From: Wright Charolais, MO; Cody Cattle Co., MO; and Resource Investors

<table>
<thead>
<tr>
<th>EPDs as of 7/16/2018</th>
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<tbody>
<tr>
<td>CE</td>
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<tr>
<td>----------</td>
</tr>
<tr>
<td>EPD</td>
</tr>
<tr>
<td>ACC %</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Daughter: J&J Angelina 660
• Foreman is the homozygous polled product of a proven mating designed for multi-trait excellence. Use him for superior calving ease with no sacrifices in quality.

• Foreman defines performance excellence with contemporary group ratios of 71, 113 and 111 for birth weight, weaning weight and yearling weight, respectively. He is big gauged individual with extra depth in his heart and forerib.

**Tattoo:** D602  
**Born:** 2/2/2016  
**BW:** 58 lbs  
**WW:** 699 lbs  
**YW:** 1382 lbs  
**YSC:** 37.8 cm  
**YF:** 6.3

**Son:** WC Miles Ahead 7114 P ET  
**From:** Wright Charolais, MO, and Milestone Investors, MO

**Milestone**

• Milestone is among the elite for phenotypic quality, smooth joints and sound structure. He was a member of the Champion Denver Pen in 2016 and is siring cattle with his same impressive phenotype.

• He ratioed 144 for REA with a 21 sq. in. ribeye, and his muscle expression confirms it. Milestone is a homozygous polled power bull with a perfect demeanor and the perfect choice for strategic use of sexed semen.

**Tattoo:** 5223  
**Born:** 1/12/2015  
**BW:** 93 lbs  
**WW:** 861 lbs  
**YW:** 1362 lbs  
**YSC:** 38.2 cm  
**YF:** 6.2

**From:** Wagonhammer Ranches, NE, and Wild Indian Acres, MO

---

**CE BW WW YW MILK MCE MTL SC CW REA FAT MARB TSI**  
**EPD**  
-1.6 2.1 41 72 12 2.6 33 1.2 29 0.98 -0.010 0.06 0.06 215.40

**ACC**  
0.44 0.81 0.70 0.59 0.21 0.16 0.48 0.28 0.26 0.24 0.20

**%**  
15 15 15 20 8 10 15 15 15 25 20

---

**CMF 192 Wrangler 256**  
**WR Wrangler W601**  
**WR Miss Princess T629**  
**LT Ledger 0332 P**  
**WR Miss Silver Y601**

**From:** Wagonhammer Ranches, NE, and Wild Indian Acres, MO
Outcrossing and Crossbreeding

...WHAT'S THE DIFFERENCE?

**OUTCROSSING** refers to a cross between two individuals of the same breed that are not closely related.

Generally, they would not have any common ancestors in the first four generations. This is a valuable tool to help add genetic diversity or heterozygosity to your herd.

Outcrossing can help to minimize the danger of unwanted genetic recessives or haplotypes that can have detrimental effects on profitability. Outcrossing can also help to avoid the effects of inbreeding depression when crossing animals of the same breed.

**CROSSBREEDING** is the mating of two animals from different breeds.

This is a common practice in cattle breeding that can have many benefits. The primary advantages of using multiple breeds are:

1. Heterosis (hybrid vigor)
2. Combine the strengths of the various breeds used to form the cross

The goal of a well-designed, systematic crossbreeding program is to simultaneously optimize these advantages of heterosis and breed complementarity.

**HETEROSIS** or **HYBRID VIGOR** refers to the superiority in performance of the crossbred animal compared to the average of the straight bred parents. Heterosis may be calculated as follows:

\[
\% \text{ Heterosis} = 100 \times \frac{(\text{Crossbred Average} - \text{Straight Bred Average})}{\text{Straight Bred Average}}
\]

For example, if the average weaning weight of the straight bred calves was 470 pounds for Breed A and 530 pounds for Breed B, the average of the straight bred parents would be 500 pounds. If Breed A and Breed B were crossed and the resulting calves had an average weaning weight of 520 pounds, heterosis would be calculated as:

\[
\% \text{ Heterosis} = 100 \times \frac{(520 - 500)}{500} = 4\%
\]

This 4% increase, or 20 pounds in this example, is defined as *heterosis* or *hybrid vigor*.
To maintain a yearly calving interval (one calf every 365 days), a cow must re-breed in 80 to 85 days after calving. With the nutrient priority of beef cattle being body maintenance, growth, lactation, fetal growth, breeding and body reserve according to Short et al. (1990) indicates that reproduction is low on the list. Body condition score at parturition has been implicated as the single most important factor affecting postpartum interval to estrus and pregnancy in multiparous cows.

George Perry & Julie Walker
Range Beef Cow Symposium 2007

As we consider sire selection for easy fleshing or lower maintenance type cattle, breed associations have provided tools to help identify animals with lower energy requirements. EPDs like Milk, Mature Weight and Mature Height can be helpful. Some breed associations have tools that target Maintenance Energy, specifically.

Here are some bulls that excel in their respective breeds for Energy Requirements:

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<tr>
<th>BCS</th>
<th>PPI (days)</th>
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<tbody>
<tr>
<td>3</td>
<td>88.5</td>
</tr>
<tr>
<td>4</td>
<td>69.7</td>
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<tr>
<td>5</td>
<td>59.4</td>
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<tr>
<td>6</td>
<td>51.7</td>
</tr>
<tr>
<td>7</td>
<td>30.6</td>
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</tbody>
</table>

**Effect of Body Condition Score (BCS) at Parturition on Postpartum Interval (PPI)**  
Adapted from Houghton et al., 1990

<table>
<thead>
<tr>
<th>ANGUS</th>
<th>$EN</th>
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</thead>
<tbody>
<tr>
<td>Steadfast</td>
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<td>Surveillance</td>
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<td>Concord</td>
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<td>Commonwealth</td>
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<table>
<thead>
<tr>
<th>RED ANGUS</th>
<th>ME</th>
</tr>
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<tbody>
<tr>
<td>Up Front</td>
<td>-5</td>
</tr>
<tr>
<td>Draft Pick</td>
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<tr>
<td>Exceptional</td>
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</table>
Sexed Semen Advantages
Sexed Semen offers great advantages to cattle producers that utilize crossbreeding to mitigate challenging hot and/or humid environment. *Bos indicus* (Brahman) influenced breeds are absolutely necessary in many herds for females to manage health, humidity and parasites. However, their steer mates are often discounted at several levels in the beef production chain.

Crossbreeding Benefits
A certain level of *Bos taurus* (Angus, Hereford, Simmental, etc.) influence is needed to maintain uniformity in color, marketability and packer premiums when those cattle are sold on a grid. Sexed semen offers cattle producers a valuable tool by allowing A.I. with *Bos taurus* sires to create crossbred or composite females that are highly desired, without having to invest significant capital buying high-value breeder bulls that would not thrive in that environment.

Sexed Semen Value
A great example of the value of sexed semen in a *Bos indicus x Bos taurus* cross system in the U.S. is the great demand and affinity for the Brahman/Hereford F1 cross. F1 producers with Hereford females can use sexed semen on a low birth weight Brahman sire to produce a highly desired cross that fetches premiums without having purchase Brahman bulls and suffering market discounts on the steer mates.
**BRAHMAN Sires**

**KALLION 1352**

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

- 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, with 124 purebred calves averaging 66 pounds at birth. Recommended for heifers and crossbreeding.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th></th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>Milk</th>
<th>SC</th>
<th>CWT</th>
<th>Marb</th>
<th>REA</th>
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<th>RP</th>
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</tbody>
</table>

**Tattoo:** 1352  **DOB:** 3/20/2012

**From:** Kallion Farms, TX

**King of Clubs**

- +Mr. V8 789/4
- JDH Sir Neese Manso
- JDH Lady Rubidia Manso
- +JDH MR Brandon Manso
- JDH Lady Kathryn Manso
- JDH Lady Welu Crat Manso

- King of Clubs is a Neese Manso son out of a tremendous Brandon daughter that offers a rare EPD profile!
- King of Clubs should appeal to Registered and Commercial breeders alike with his combination of phenotype, pedigree, calving ease and femininity of daughters.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th></th>
<th>BW</th>
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<th>YW</th>
<th>Milk</th>
<th>SC</th>
<th>CWT</th>
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</tbody>
</table>

**Tattoo:** 784/4  **DOB:** 10/4/2010

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

**BOGOTA**

- +JDH Mr. Manso 360/1
- +Mr H Maddox Manso 684
- +Lady Heritage Manso 173
- SRS Mr. Ranchero 666
- +SRS Miss Rancher 770
- SRS Miss Rex 520

- The #2 Gray Bull for registered progeny in the United States in 2017, Bogota is one of our most popular and talked about sires! He is drawing high praise for his thick, attractive calves.
- Bogota notable for his muscle, volume and bone. Feet and legs are a strong point. Use to add milking ability to your replacements females.

**EPDs as of 7/16/2018**

<table>
<thead>
<tr>
<th></th>
<th>BW</th>
<th>WW</th>
<th>YW</th>
<th>Milk</th>
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**Tattoo:** 253/1  **DOB:** 2/23/2011

**From:** STgenetics, 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.
• Breed character abounds in Arquitecto’s calves and is a strong force in the future of the Red Brahman breed.

ABBA 886730
ARQUITECTO
3X-HK Arquitecto
203RR01190

• HK Blue Blood 986
• HK Blueprint
  □ HK Millionairs 359/2
  □ Mr 3X Millenium 2000
• Ms. 3X Red Dynasty 1/4
  □ Miss 3X Millenium 50

From: HK Cattle, TX

ABBA 895379
966 “PARALLEL”
3X-HK Mr. 966
203RR01478

• +HK Passport
• HK Passport 624
  □ HK Ms. Break Thru 966
  □ Mr 3X Millenium 2000
• Ms. 3X Red Dynasty 2/5
  □ Miss 3X Red Dynasty 22

Tattoo: 966  DOB: 9/19/2010
From: HK Cattle, TX

ABBA 946545
X-RAY
HK X-Ray
551RR01606

• Arrow J Millionaire 503
• Arrow J Millmarone 925
  □ Budd’s Miss Mayro 84/3
  □ +HK Mr America 435/2
• +Miss 3H 290
  □ Z-Bar Brazos Queen 890

Tattoo: 825/1  DOB: 11/5/2014
From: HK Cattle, TX, and STgenetics, TX

• HK X-Ray 825/1 “Ray” is a clone of the legendary, +Mr. 3H X-Ray 825, who is known for producing offspring with great red color, clean lines, strong beef qualities and extraordinary gentle offspring.
• “Ray’s” first calves round of calves have surpassed all of our expectations, showing the same beautiful beef qualities, color and astonishing dispositions!
**SOMETHING SPECIAL**

**Tattoo:** 889Y2  
**Born:** 2/14/2011  
**BW:** 76 lbs  

- Ideal daughter-maker in a calving ease package! Recommended for heifers and cows.  
- 889Y2 is a “no holes” bull that excels for carcass merit, ranking in the Top 15% of the breed for REA and Top 20% for IMF.

**Sires**  
- MC Jethro 00S3  
- **MC Something Special 129W14**  
- MC Ms Lead Gun 129T12  
- MC Real Deal 541R3  
- BWCC Ms Real Deal 889W8  
- MC Ms Extravagant 889P4

**From:** Mound Creek Ranch, TX, and Blackwater Cattle Company, GA

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**CZONKA**

**Tattoo:** 401X  
**Born:** 4/9/2010  
**BW:** 86 lbs  

- Czonka is a wide-based, masculine bull, balancing a soggy look with tremendous muscle expression.  
- His daughters are moderate, deep-bodied and easy fleshing.

**Sires**  
- Lead Gun Of Brinks 222K14  
- Miss Brinks Uppercut 30L18  
- Brinks Bright Side 607L11  
- Ih Ms Bright Side 40R  
- Miss Brinks Ideal 40K2

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

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<th>WW</th>
<th>YW</th>
<th>MILK</th>
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WAGYU Beef Health Benefits

Wagyu is also higher in a type of fatty acid called conjugated linoleic acid (CLA). **Wagyu beef contain the highest amount of CLA per gram of any foodstuff** – about 30% more than other beef breeds – due to higher linoleic acid levels. Foods that are naturally high in CLA have fewer negative health effects. Source: American Wagyu Association Website

The unique taste and tenderness of highly marbled Wagyu beef makes for an unrivalled eating experience. That is why Wagyu beef is finding its way into the repertoires of Gourmet cooks and fine restaurants across the US.
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.

- Full brother to the original Michiyoshi.
- SCD: AA and Exon 5: BC

From: Crescent Harbor Ranch, WA

**AMERICAN ABERDEEN/LOWLINE**

<table>
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<tr>
<th>Sire</th>
<th>Dam: Duff Amigo 927K Juanada 071</th>
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<tbody>
<tr>
<td>TRUST ME</td>
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<tr>
<td>Tattoo: 2525Z</td>
<td>DOB: 10/12/2012</td>
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<tr>
<td>From: Duff Cattle Company, OK, and Sandford Ranches, TX</td>
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- Trust Me is a calving ease sire proven to reduce birthweights with excellent calf vigor and survivability in range conditions.
- Use Trust Me to sire easy fleshing, deep bodied cattle with excellent structure and conservative mature size.

**Low Input Genetics**
**Heat Detection**

1 Shot PG

- Treatment day 0: Heat detect & AI
- Treatment day 5: PG
- Treatment day 12: Heat detect & AI

**Heat Detect & Time AI (TAI)**

Select Synch + CIDR® & TAI

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

MGA®-PG & TAI

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

4-day CIDR®-PG & TAI

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

**Fixed-Time AI (TAI)**

Short-term Protocols

7-day CO-Synch + CIDR®

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

Long-term Protocols

14-day CIDR®-PG

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

MGA®-PG

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

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

**Select Synch**

Heat detect and AI days 0 to 3. Administer CIDR to non-responders and heat.

**Select Synch + CIDR®**

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

**PG 6-day CIDR®**

- Heat detect and AI days 9 to 12. Protocol may be used in heifers.

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**Heat Detect & Time AI (TAI)**

**Select Synch & TAI**

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

**Select Synch + CIDR® & TAI**

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

**PG 6-day CIDR® & TAI**

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

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**Fixed-Time AI (TAI)***

**7-day CO-Synch + CIDR®**

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

**5-day CO-Synch + CIDR®**

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

---

**Fixed-Time AI (TAI)***

**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.

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*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.

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

estroPLAN®, Estrumate®, In-Synch®, Lutalyse®, Lutalyse® HighCon, ProstaMate®, SYNCHSURE™
The **SexedULTRA** Difference

**4 MILLION FEMALE SPERM CELLS PER STRAW**

**SexedULTRA™ Technology**

- Process removes dead cells
- Speciality media tailored for each step in the production process
- Large scale media manufacturing and distribution
- Optimization of staining method
- State of the art equipment

**Trials conducted in collaboration with GGI, Germany**

**NRR (%)**

<table>
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<tr>
<th>XY</th>
<th>SexedULTRA 2.1M</th>
<th>SexedULTRA 3M</th>
<th>SexedULTRA 4M</th>
<th>Conventional 15M</th>
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<tr>
<td>55.9%</td>
<td>59.9%</td>
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<td>66.7%</td>
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<tr>
<td>n=1,963</td>
<td>n=1,999</td>
<td>n=2,013</td>
<td>n=1,890</td>
<td>n=62,398</td>
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NRR (%) : Non-Return Rate %