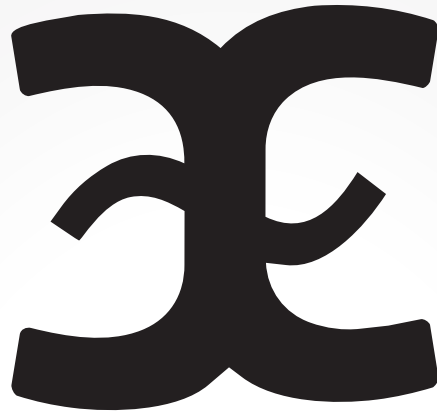




THREE TREES

LAND & CATTLE COMPANY

Online Pregnancy Sale

TUESDAY | JULY 21, 2026 | 6 PM CDT



Welcome!

Three Trees Land & Cattle Company Online Pregnancy Sale

On behalf of my family, I want to sincerely welcome you to the Three Trees Land & Cattle Company Online Pregnancy Sale — our very first sale, and a milestone we are incredibly honored to share with you.

Raising Angus cattle has been a lifelong dream of mine, one that took root when I was a young 4-H kid in South Texas. In 2022, that dream finally became a reality when I purchased my first Angus heifers. Since then, we have carefully and steadily grown our program through the selection of proven donors, premium frozen genetics, and the thoughtful development of quality heifers. It has been an extraordinary journey — one filled with hard work, deep fulfillment, and the blessing of remarkable friendships along the way.

Truthfully, we weren't planning to hold a sale just yet. But this year, we were abundantly blessed with more outstanding pregnancies than we anticipated — and we knew we had to share these exceptional genetics with fellow producers who would value them as much as we do. Whether you're building your herd or adding elite genetics to your program, there is something here for everyone. The best part? These pregnancies are ready to calve this September, giving you immediate impact heading into fall. These are the very same genetics we are investing in for our own program — and we couldn't be more excited about what their future holds.

Thank you for reviewing this catalog and for your genuine interest in what we are building at Three Trees Land & Cattle Company. Your support makes this sale especially meaningful. Please don't hesitate to reach out if you have any questions or simply want to talk Angus cattle — I'd love to hear from you.

Sincerely,

Aaron Castillo

Three Trees Land & Cattle Company, LLC



Castillo Family



THREE TREES

LAND & CATTLE COMPANY

Online Pregnancy Sale

TUESDAY | JULY 21, 2026 | 6 PM CDT



AUCTIONEER:
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(405) 823-2972



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SALE BOOK PREPARED BY

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TERMS & CONDITIONS

Cattle will sell under the suggested Terms and Conditions of the American Angus Association (http://www.angus.org/Pub/suggested_sale_terms.pdf).

ANNOUNCEMENTS

A supplemental update sheet will be available sale day. All announcements made from the auction block take precedence over printed matter in this sale book.

LIVESTOCK INSURANCE

James Bessler, Great American Insurance • (815) 762-2641

TRUCKING

Randy Lathrop, Lathrop Trucking, Dundee, Illinois • (847) 910-4673
Tom Snell LLC • (580) 374-4168

CATTLE LOAD OUT

Transportation and shipping can be arranged after the conclusion of the sale and proper settlement has been made.



Sale Offering





PAR Barbara 4500 - Dam of Lot 1 Pregnancy

LOT

1

CRICK X 4500

Pregnancy Due Date: 09-25-2026

+*Ingram Heisman 0566
+*Wilks Crick 3708
 20753043 +*DBA Rita 1034
 +*Baldrige Heat Seeker H925
***PAR Barbara 4500**
 21020653 +*PAR Barbara 2135

#*Connealy Confidence Plus
 +*RB Lady Denver 167-453
 #*G A R Home Town
 +*Pine View Rita E093
 #*Mill Brae Identified 4031
 +*Baldrige Isabel E048
 +*G A R Reliant
 +*PAR Barbara 8130

\$M	+95
\$W	+99
\$B	+293
\$C	+475

Parent Averages

CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP
+4	+3.5	+91	+155	+.95	+21	+.46	+.41	+2.34
HP	MILK	TEAT	UDDR	FL	\$EN	CW	MARB	RE
+13.4	+28	+62	+57	+1.03	-22	+102	+1.69	+1.46

A heifer calf pregnancy by the super rare and super limited Wilks Crick and directly from the \$70,000 Barbara 4500, who is the \$70,000 Heat Seeker daughter that is one of the top \$C females in the breed. She is a direct daughter of the top-selling female in the 2025 Percy Angus sale. There is big time potential here, folks. This maternal-made, massive-topped, beautifully-fronted female is loaded with all the right pieces. When combined with the big time performance of Crick, we could very well be looking at one of the top performance females in the breed this fall. She sells due to calve 9/25/2026 in recip 8934.



Wilks Crick 3708 - Sire of Lot 1 Pregnancy



SF Miss Salvation 1170 - Granddam of Lots 2A-2D Pregnancies

LOT		CRICK X 3L261							
2A		Pregnancy Due Date: 09-09-2026							
		+*Ingram Heisman 0566				#*Connealy Confidence Plus			
+*Wilks Crick 3708		+*RB Lady Denver 167-453				+*G A R Home Town			
20753043		+*DBA Rita 1034				+*Pine View Rita E093			
		+*Beal Breakthrough				+*G A R Prophet K263			
+*3TC Queenie 3L261						+*H P C A Sure Fire S6			
20768444		+*SF Miss Salvation 1170				+*SG Salvation			
						+*CoX Queenie 8579			
Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+7	+3.4	+92	+156	+1.13	+14	+46	+39	+1.09	
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE	
+10.7	+30	+77	+76	+1.06	-27	+105	+1.66	+1.47	

A heifer calf pregnancy by the super rare and very limited Wilks Crick and from a massive-made, super-attractive Breakthrough daughter that traces back to the legendary multimillion-dollar producer, Queenie Y120. There is some serious power in the blood here, folks. Check out the massive growth curve and elite carcass merit that is built in this pregnancy, not to mention the elite genetic stack of 1034, 43, and Y120, all in one ultra complete and ultra elite package. Sells due to calve 9/9/2026 in recip 8257.

LOT		SWAROVSKI X 3L261							
2B		Pregnancy Due Date: 09-25-2026							
		+*Connealy Clarity				#Cherry Creek Land Grant			
+*Rhoades Swarovski 3007		+*RB Lady Denver 167-453				+*Breshie of Conanga 6988			
20604231						#*EXAR Denver 2002B			
		+*Beal Breakthrough				+*R B Lady Parly 167-305			
+*3TC Queenie 3L261						+*G A R Prophet K263			
20768444		+*SF Miss Salvation 1170				+*H P C A Sure Fire S6			
						+*SG Salvation			
						+*CoX Queenie 8579			
Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+4	+4.1	+90	+157	+92	+17	+46	+42	+3.53	
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE	
+11.3	+31	+91	+85	+1.07	-39	+103	+1.72	+1.55	

A heifer calf pregnancy by the \$315,000 Rhoades Swarovski and the super-attractive, high-performance Breakthrough daughter that traces back to the legendary Queenie Y120. Check out the elite genetic combination on this heifer calf pregnancy: 453, Y120, and Clarity. There is tremendous upside here, folks. Sells due to calve 9/25/2026 in recip 8169.



Rhoades Swarovski 3007 - Sire of Lot 2B Pregnancy



DE-SU Do Right G577 - Sire of Lots 2C & 2D Pregnancies

LOT 2C DO RIGHT X 3L261									
Pregnancy · Due Date: 09-25-2026									
*Virginia Tech Statesman					#*Tehama Patriarch F028				
+*DE-SU Do Right G577					+*Vpi 310A Rita 9G6 Et				
21036235 +*Hart Whitney 9519					#+*Hoover No Doubt				
+*Beal Breakthrough					Hart Whitney 3206				
*3TC Queenie 3L261					+*G A R Prophet K263				
20768444 +*SF Miss Salvation 1170					*H P C A Sure Fire S6				
					*SG Salvation				
					+*CoX Queenie 8579				
Parent Averages					\$M	\$W	\$B	\$C	
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+7	+2.2	+80	+139	+87	+16	+56	+45	+2	
HP	MILK	TEAT	UDDR	FL	\$EN	CW	MARB	RE	
+12	+30	+57	+48	+1.05	-18	+89	+1.81	+95	

A heifer calf pregnancy by the \$57,000 Friendship Farms Do Right, who is the super-attractive, super-efficient, big-time marbling Statesman son that is making a massive impact on his progeny, and from a dam that traces back to the legendary multimillion-dollar producer, Queenie Y120. This one is going to be loaded with performance on paper and on the hoof. Sells due to calve 9/25/2026 in recip 8125.

LOT 2D DO RIGHT X 3L261									
Pregnancy · Due Date: 09-25-2026									
*Virginia Tech Statesman					#*Tehama Patriarch F028				
+*DE-SU Do Right G577					+*Vpi 310A Rita 9G6 Et				
21036235 +*Hart Whitney 9519					#+*Hoover No Doubt				
+*Beal Breakthrough					Hart Whitney 3206				
*3TC Queenie 3L261					+*G A R Prophet K263				
20768444 +*SF Miss Salvation 1170					*H P C A Sure Fire S6				
					*SG Salvation				
					+*CoX Queenie 8579				
Parent Averages					\$M	\$W	\$B	\$C	
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+7	+2.2	+80	+139	+87	+16	+56	+45	+2	
HP	MILK	TEAT	UDDR	FL	\$EN	CW	MARB	RE	
+12	+30	+57	+48	+1.05	-18	+89	+1.81	+95	

A heifer calf pregnancy by the \$57,000 Friendship Farms Do Right, who is the super-attractive, super-efficient, big-time marbling Statesman son that is making a massive impact on his progeny, and from a dam that traces back to the legendary multimillion-dollar producer, Queenie Y120. This one is going to be loaded with performance on paper and on the hoof. Sells due to calve 9/25/2026 in recip 8046.



CoX Queenie 8579 - Great Granddam of Lots 2A-2D Pregnancies



FHCC Blackcap Lady 1550 - Dam of Lot 3 Pregnancy

LOT

3

BREAKAWAY X 1550

Pregnancy Due Date: 09-28-2026

+*4 Sons Breakaway
20569806 *Mill Brae I Karama 7237

*Beal Breakthrough

*Mill Brae I Karama 7237

*Connealy Clarity

+*FHCC Blackcap Lady 1550

20119567 *Woodland Blackcap Lady 84

*G A R Prophet K263

*H P C A Sure Fire S6

#*Mill Brae Identified 4031

Mill Brae Stim Karama 3025

#Cherry Creek Land Grant

*Breshie of Conanga 6988

#*G A R Sure Fire

#Basin Blackcap Lady 0172

\$M	+103
\$W	+108
\$B	+248
\$C	+424

Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+11	-.3	+89	+152	+.98	+26	+.48	+.4	+2.52	
HP	MILK	TEAT	UDDR	FL	\$EN	CW	MARB	RE	
+11.7	+27	+69	+.7	+1.04	-17	+87	+1.38	+1.34	

A heifer calf pregnancy by the \$300,000-valued 4 Sons Breakaway and the only sister in the breed to FHCC Majority, FHCC Blackcap Lady 1550, who has continually been a crowd favorite at the FHCC sales. The Breakaway cattle have been sale-day highlights across the country this past spring, and have proven their ability to transmit elite performance. You are getting the best of both worlds in this super elite genetic combination. Sells due to calve 9/28/2026 in recip 8762.



FHCC Majority 1551 - Full Brother to the Dam of Lot 3



B C C Lucy Clarity 9517-1504 - Dam of Lots 4A & 4B Pregnancies

LOT 4A

CRICK X 1504

Pregnancy · Due Date: 09-25-2026

*Ingram Heisman 0566
+*Wilks Crick 3708
 20753043 *DBA Rita 1034

*Connealy Clarity
***B C C Lucy Clarity 9517-1504**
 20219119 *B C C Lucy Reno 6528-9517

#*Connealy Confidence Plus
 *RB Lady Denver 167-453
 #*G A R Home Town
 *Pine View Rita E093
 #Cherry Creek Land Grant
 *Breshie of Conanga 6988
 #*Spring Cove Reno 4021
 *B C C Lucy 158 7554-6528

\$M	+109
\$W	+98
\$B	+253
\$C	+437

Parent Averages								
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP
+10	+1.1	+82	+146	+7.4	+25	+39	+41	+2.92
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE
+13.6	+30	+7	+6	+1.06	-12	+84	+1.62	+1.18

A heifer calf pregnancy by the super rare and very limited Wilks Crick, who has sired chart-topping progeny this spring, and from the massive-made, big-topped, huge-quartered Clarity daughter that stems from the longtime donor at Byrd Cattle, BCC Lucy 158 7554-6528. The maternal side of this pedigree has always delivered on massive transmission of elite performance in super attractive, very functional packages. This one is super exciting. Sells due to calve 9/25/2026 in recip 8939.

LOT 4B

CRICK X 1504

Pregnancy · Due Date: 09-25-2026

*Ingram Heisman 0566
+*Wilks Crick 3708
 20753043 *DBA Rita 1034

*Connealy Clarity
***B C C Lucy Clarity 9517-1504**
 20219119 *B C C Lucy Reno 6528-9517

#*Connealy Confidence Plus
 *RB Lady Denver 167-453
 #*G A R Home Town
 *Pine View Rita E093
 #Cherry Creek Land Grant
 *Breshie of Conanga 6988
 #*Spring Cove Reno 4021
 *B C C Lucy 158 7554-6528

\$M	+109
\$W	+98
\$B	+253
\$C	+437

Parent Averages								
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP
+10	+1.1	+82	+146	+7.4	+25	+39	+41	+2.92
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE
+13.6	+30	+7	+6	+1.06	-12	+84	+1.62	+1.18

A heifer calf pregnancy by the super rare and very limited Wilks Crick, who has sired chart-topping progeny this spring, and from the massive-made, big-topped, huge-quartered Clarity daughter that stems from the longtime donor at Byrd Cattle, BCC Lucy 158 7554-6528. The maternal side of this pedigree has always delivered on massive transmission of elite performance in super attractive, very functional packages. This one is super exciting. Sells due to calve 9/25/2026 in recip 7903.





DBA Blackbird 2801 - \$40,000 Dam of Lot 5 Pregnancy

LOT

5

CRICK X 2801

Pregnancy - Due Date: 09-09-2026

+*Ingram Heisman 0566
+*Wilks Crick 3708
 20753043 +*DBA Rita 1034

+*DB Iconic G95

***DBA Blackbird 2801**
 20512353 +*HR Blackbird 9527

#*Connealy Confidence Plus
 +*RB Lady Denver 167-453
 #*G A R Home Town
 +*Pine View Rita E093
 #*Musgrave 316 Stunner
 *DB Ms Discovery D13
 #*Bar R Jet Black 5063
 +*Spruce Mtn Blackbird 6553

\$M	+89
\$W	+102
\$B	+259
\$C	+424

Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+7	+1.7	+88	+155	+.87	+24	+.47	+.4	+2.86	
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE	
+12.7	+30	+.69	+.66	+1.04	-30	+91	+1.57	+1.3	

A heifer calf pregnancy by the super rare and very limited Wilks Crick and the \$40,000 DBA Blackbird 2801, who produced the \$40,000 selection of Wass Cattle in the 2025 Gabriel Ranch Sale. Folks, I am telling you that there is a mountain of opportunity genetically here. This maternal pedigree is loaded with nothing but upside; the donor dam of this mating consistently outproduces herself in super-attractive, extremely-balanced packages. This one is super cool. Sells due to calve 9/9/2026 in recip 6723.



Gabriel Blackbird 4505 - \$40,000
 Maternal Sister to Lot 5 Pregnancy



Gabriel Blackbird 5593 -
 Maternal Sister to Lot 5 Pregnancy



MCC SuperMama 6276 - Dam of Lot 6 Embryos

LOT

6

GRID MAKER X 6276

Pregnancy - Due Date: 09-25-2026

#*GB Fireball 672
+*G A R Grid Maker L1071
 20370359 +*Chair Rock Sure Fire 6095

#*Connealy Black Granite
***MCC SuperMama 6276**
 18837500 *MCC SuperMama 2320

+*G A R Sure Fire 6404
 *GB Anticipation 432
 #+*G A R Sure Fire
 +*Chair Rock Progress 3005
 #*Connealy Consensus 7229
 #Eura Elga of Conanga 9109
 #+*Rito Revenue 5M2 of 2536 Pre
 MCC SuperMama 7212

\$M +63
\$W +90
\$B +251
\$C +388

Parent Averages								
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP
+10	+2.2	+85	+146	+.96	+31	+.58	+.48	-.86
HP	MILK	TEAT	UDDR	FL	\$EN	CW	MARB	RE
+11.8	+29	+.45	+.41	+1	-39	+81	+1.62	+1.21

A heifer calf pregnancy by the legendary multitrait leader, the FB Genetics herd sire, Grid Maker, and the legendary multimillion-dollar producer, SuperMama 6276, who is one of the very special females in the breed today. Folks, there is a list of accomplishments this female has done in a very short period of time. The best news, yet, is that those progeny who have circulated into the industry are making serious genetic impacts everywhere they go and reaping serious return on investment in every program. This may not be the most genetically cutting-edge combination but, I can guarantee you, it will be impactful for generations to come. Sells due to calve 9/25/2026 in recip 8267.



BYRD SuperMama FB 6276-2548 -
 \$300,000 Valued Maternal Sister to Lot 6



BYRD SuperMama HT 6276-1609 -
 \$65,000 maternal Sister to Lot 6



BYRD SuperMama TB 6276-4121 -
 \$55,000 Maternal Sister to Lot 6



Basin Lucy 8108 - Dam of Lots 7A & 7B Pregnancies

LOT 7A		TRUE BALANCE X 8108							
		Pregnancy - Due Date: 09-25-2026							
#*G A R Home Town		#*G A R Ashland							
*RSA True Balance 1311		+*Chair Rock Sure Fire 6095							
20129422		*RSA Forever Lady 9204							
#*Basin Payweight 1682		#*Basin Payweight 006S							
+*Basin Lucy 8108		21AR O Lass 7017							
19144789		#*Hoover Dam							
		+*Basin Lucy W213							
Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+10	+2	+73	+127	+1.36	+21	+49	+51	-1.68	
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE	
+11.6	+33	+53	+52	+1.04	-16	+67	+1.55	+82	

A heifer calf pregnancy by the Origen sire, True Balance, whose progeny have topped bull and female sales across the country, and the legendary \$160,000-valued Byrd Cattle and Basin Angus donor, Lucy 8108, who is the dam of the Grimmus Cattle sire, Basin Boaz. Her embryos sold in the first ever Basin Angus Embryo Sale this past spring for over double the average price. This cow is the real deal; she transmits elite phenotype, massive-middled, super-sound, functional cattle that are DNA upgraders. Sells due to calve 9/25/2026 in recip 8234.

LOT 7B		TRUE BALANCE X 8108							
		Pregnancy - Due Date: 09-25-2026							
#*G A R Home Town		#*G A R Ashland							
*RSA True Balance 1311		+*Chair Rock Sure Fire 6095							
20129422		*RSA Forever Lady 9204							
#*Basin Payweight 1682		#*Basin Payweight 006S							
+*Basin Lucy 8108		21AR O Lass 7017							
19144789		#*Hoover Dam							
		+*Basin Lucy W213							
Parent Averages									
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP	
+10	+2	+73	+127	+1.36	+21	+49	+51	-1.68	
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE	
+11.6	+33	+53	+52	+1.04	-16	+67	+1.55	+82	

A heifer calf pregnancy by the Origen sire, True Balance, whose progeny have topped bull and female sales across the country, and the legendary \$160,000-valued Byrd Cattle and Basin Angus donor, Lucy 8108, who is the dam of the Grimmus Cattle sire, Basin Boaz. Her embryos sold in the first ever Basin Angus Embryo Sale this past spring for over double the average price. This cow is the real deal; she transmits elite phenotype, massive-middled, super-sound, functional cattle that are DNA upgraders. Sells due to calve 9/25/2026 in recip 8128.





Thomas Lucy 9307 - Dam of Lots 8A & 8B Pregnancies

LOT		BULLSEYE X 9307									
8A		Pregnancy · Due Date: 09-25-2026									
		+*Beal Breakthrough					+*G A R Prophet K263				
+*BYRD Bullseye 1186-A100		+*H P C A Sure Fire S6					+*H P C A Sure Fire S6				
20620255		+*Vintage Blackcap 1186					#*GB Fireball 672				
		+*Thomas Xpansion 5810					+*Vintage Blackcap 9186				
*Thomas Lucy 9307		#+baldridge Xpand x743					Thomas Elsa 0502				
19699297		Thomas Lucy 6268					#+*Quaker Hill Rampage 0A36				
							#+Thomas Lucy 2541				
Parent Averages											
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP			
+6	+1.6	+84	+162	+1.12	+16	+.56	+.45	+1.46			
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE			
+9.3	+32	+.44	+.43	+.95	-.54	+103	+1.22	+1.79			

A heifer calf pregnancy by the \$600,000-valued BYRD Bullseye and the multimillion-dollar producer, Thomas Lucy 9307, who has worked in the 44 Farms and Monticello Farms ET programs, and has produced several AI sons and multiple daughters that have gone on and worked in several programs across the country. The early reports on the Bullseye progeny have been outstanding, and appear to be loaded with elite performance both on paper and on the hoof. Sells due to calve 9/25/2026 in recip 8134.

LOT		BULLSEYE X 9307									
8B		Pregnancy · Due Date: 09-25-2026									
		+*Beal Breakthrough					+*G A R Prophet K263				
+*BYRD Bullseye 1186-A100		+*H P C A Sure Fire S6					+*H P C A Sure Fire S6				
20620255		+*Vintage Blackcap 1186					#*GB Fireball 672				
		+*Thomas Xpansion 5810					+*Vintage Blackcap 9186				
*Thomas Lucy 9307		#+baldridge Xpand x743					Thomas Elsa 0502				
19699297		Thomas Lucy 6268					#+*Quaker Hill Rampage 0A36				
							#+Thomas Lucy 2541				
Parent Averages											
CED	BW	WW	YW	SC	DOC	CLAW	ANGLE	PAP			
+6	+1.6	+84	+162	+1.12	+16	+.56	+.45	+1.46			
HP	MILK	TEAT	UDDR	FL	SEN	CW	MARB	RE			
+9.3	+32	+.44	+.43	+.95	-.54	+103	+1.22	+1.79			

A heifer calf pregnancy by the \$600,000-valued BYRD Bullseye and the multimillion-dollar producer, Thomas Lucy 9307, who has worked in the 44 Farms and Monticello Farms ET programs, and has produced several AI sons and multiple daughters that have gone on and worked in several programs across the country. The early reports on the Bullseye progeny have been outstanding, and appear to be loaded with elite performance both on paper and on the hoof. Sells due to calve 9/25/2026 in recip 8135.

AAA SELECTION TOOLS

Expected Progeny Difference (EPD), is the prediction of how future progeny of each animal are expected to perform relative to the progeny of other animals listed in the database. EPDs are expressed in units of measure for the trait, plus or minus. Interim EPDs may appear on young animals when their performance has yet to be incorporated into the American Angus Association National Cattle Evaluation (NCE) procedures. This EPD will be preceded by an "I", and may or may not include the animal's own performance record for a particular trait, depending on its availability, appropriate contemporary grouping, or data edits needed for NCE.

PRODUCTION EPDS

Calving Ease Direct (CED), is expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers. It predicts the average difference in ease with which a sire's calves will be born when he is bred to first-calf heifers.

Birth Weight EPD (BW), expressed in pounds, is a predictor of a sire's ability to transmit birth weight to his progeny compared to that of other sires.

Weaning Weight EPD (WW), expressed in pounds, is a predictor of a sire's ability to transmit weaning growth to his progeny compared to that of other sires.

Yearling Weight EPD (YW), expressed in pounds, is a predictor of a sire's ability to transmit yearling growth to his progeny compared to that of other sires.

Scrotal Circumference EPD (SC), expressed in centimeters, is a predictor of the difference in transmitting ability for scrotal size compared to that of other sires.

MATERNAL EPDS

Heifer Pregnancy (HP), is a selection tool to increase the probability or chance of a sire's daughters becoming pregnant as first-calf heifers during a normal breeding season. A higher EPD is the more favorable direction and the EPD is reported in percentage units.

Maternal Milk EPD (Milk), is a predictor of a sire's genetic merit for milk and mothering ability as expressed in his daughters compared to daughters of other sires. In other words, it is that part of a calf's weaning weight attributed to milk and mothering ability.

Teat Size EPD (Teat), expressed in units of teat size score, with a higher EPD indicating a sire will produce daughters with smaller teat size compared to that of other sires' daughters.

Udder Suspension EPD (UDDR), expressed in units of udder suspension score, with a higher EPD indicating a sire will produce daughters with tighter udder suspension compared to that of other sires' daughters.

Functional Longevity EPD (FL), expressed in number of calves, is a predictor of the number of calves a sire's daughters are predicted to produce by 6 years of age compared to that of other sires' daughters. A higher EPD is the more favorable direction indicating more calves produced on average.

Cow Energy Value (\$EN), expressed in dollar savings per cow per year, assesses differences in cow energy requirements as an expected dollar savings difference in daughters of sires. A larger value is more favorable when comparing two animals (more dollars saved on feed energy expenses). Components for computing the cow \$EN savings difference include lactation energy requirements and energy costs associated with differences in mature cow size.

MANAGEMENT EPDS

Docility (Doc), is expressed as a difference in yearling cattle temperament, with a higher value indicating more favorable docility. It predicts the average difference of progeny from a sire in comparison with another sire's calves. In herds where temperament problems are not an issue, this expected difference would not be realized.

Claw Set EPD (Claw), is expressed in units of claw-set score, with a lower EPD being more favorable indicating a sire will produce progeny with more ideal claw set. The ideal claw set is toes that are symmetrical, even and appropriately spaced.

Foot Angle EPD (Angle), is expressed in units of foot-angle score, with a lower EPD being more favorable indicating a sire will produce progeny with more ideal foot angle. The ideal is a 45-degree angle at the pastern joint with appropriate toe length and heel depth.

Pulmonary arterial pressure EPD (PAP), is expressed in millimeters of Mercury (mmHg), with a lower EPD being more favorable indicating a sire should produce progeny with a lower PAP score. PAP score is an indicator of susceptibility to high altitude disease commonly experienced at elevations greater than 5,500 feet. Selection for this trait aims to improve the genetic potential for a sire's progeny to have lower PAP scores thus a lower chance of contracting high altitude disease increasing the environmental adaptability of cattle living in mountain areas.

CARCASS EPDS

Carcass Weight EPD (CW), expressed in pounds is a predictor of the differences in hot carcass weight of a sire's progeny compared to progeny of other sires.

Marbling EPD (Marb), expressed as a fraction of the difference in USDA marbling score of a sire's progeny compared to progeny of other sires.

Ribeye Area EPD (RE), expressed in square inches, is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires.

\$VALUE INDEXES

\$Value indexes, an economic selection index allows multiple change in several different traits at once pertaining to a specific breeding objective. The \$Value is an estimate of how future progeny of each sire are expected to perform, on average, compared to progeny of other sires if the sires were randomly mated to cows and if calves were exposed to the same environment.

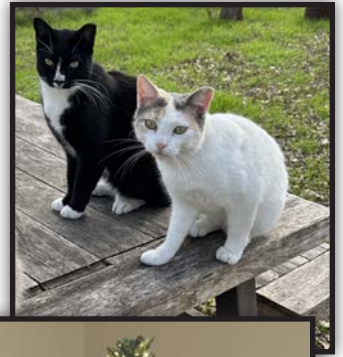
Maternal Weaned Calf Value (\$M), an index, expressed in dollars per head, predicts profitability differences from conception to weaning with the underlying breeding objective assuming that individuals retain their own replacement females within herd and sell the rest of the cull female and all male progeny as feeder calves. The model assumes commercial producers will replace 25% of their breeding females in the first generation and 20% of their breeding females in each subsequent generation. Traits included are as follows: calving ease direct, calving ease maternal, weaning weight, milk, heifer pregnancy, docility, mature cow weight, claw set and foot angle.

Weaned Calf Value (\$W), an index, expressed in dollars per head, to predict profitability differences in progeny due to genetics from birth to weaning. The underlying objective being producers will retain 20% of the female progeny as replacements and sell the rest of the cull females and their male counterparts as feeder calves. Traits included are as follows (in no particular order): birth weight, weaning weight, milk, and mature cow weight.

Beef Value (\$B), a terminal index, expressed in dollars per carcass, to predict profitability differences in progeny due to genetics for postweaning and carcass traits. This terminal index assumes commercial producers wean all male and female progeny, retain ownership of these animals through the feedlot phase and market these animals on a carcass grid. Traits included in the index are as follows: yearling weight, dry-matter intake, marbling, carcass weight, ribeye area and fat.

Combined Value (\$C), an index, expressed in dollars per head, which includes all traits that make up both Maternal Weaned Calf Value (\$M) and Beef Value (\$B) with the objective that commercial producers will replace 20% of their breeding females per year with replacement heifers retained within their own herd. The remaining cull heifer and steer progeny are then assumed to be sent to the feedlot where the producers retain ownership of those cattle and sell them on a quality-based carcass merit grid. Expected progeny differences (EPDs) directly influencing a combined index: calving ease direct (CED) and maternal (CEM), weaning weight (WW), yearling weight (YW), maternal milk (Milk), heifer pregnancy (HP), docility (DOC), mature cow weight (MW), foot angle (Angle), claw set (Claw), dry matter intake (DMI), marbling (Marb), carcass weight (CW), ribeye area (RE) and fat thickness (Fat).







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