



Dear Prospective Buyers and Guests:

Welcome to the 19th North Central Missouri Show-Me-Select Replacement Heifer Sale. We're excited to host our sale at Kirksville Livestock, LLC in Kirksville, Missouri on Friday, December 12 at 6:30 pm. Participating producers, along with the assistance of their veterinarians and regional and state extension specialists, have worked hard this past year to bring you a fantastic offering of bred heifers.

CONTINUING THIS YEAR... VOLUME BUYER TRUCKING... If you purchase 10 or more bred heifers, we will truck them up to **100 miles** from Kirksville Livestock, **FREE!!!!** Heifers will be delivered on Saturday, December 13, unless other arrangements are made. For destinations over 100 miles from Kirksville Livestock, the buyer will be charged \$4.50 per loaded mile for every mile over 100 miles. Trucking is provided by the consigners.

Auction internet broadcast and live online bidding with **DV Auction**.

This sale brings you an outstanding line-up of Angus, Red Angus and a few F1 Hereford-cross, Purebred Hereford and Simmental-cross Show-Me-Select heifers from north central and northeast Missouri. The Show-Me-Select program is a thorough and proven program designed to develop a bred heifer that is a fertile, productive female who should stay a productive member of your cowherd for many years.

This is an outstanding set of heifers. Many of the heifers have years of performance testing behind them and are out of top performance tested bulls. All the heifers in the sale have been tested and are negative for PI BVD. Heifers with blemishes and disposition problems have been culled.

Nationwide the percentage of two-year old's requiring assistance at calving is close to 20%. Producers who purchased SMS heifers in the past reported having to assist only 8% of the heifers at calving. Eighty-eight percent of these same heifers calved within two weeks of their projected due dates.

There are 190 black, black-white face, red and red-white face heifers consigned to this sale. The heifers consigned in the sale are bred to Angus and Red Angus bulls. Many of them are bred A.I. to some of the most popular sires in the breed.

If you have questions, feel free to call the consignors or myself. We greatly appreciate your interest in the sale and look forward to seeing you on Friday, December 12th.

Sincerely,

A handwritten signature in black ink that reads 'Zac Erwin'.

Zac Erwin
University of Missouri Extension
Field Specialist in Livestock/NC SMS Sale Coordinator
erwinz@missouri.edu
(660) 665-9866

A handwritten signature in black ink that reads 'Chuck Ambrosia'.

Chuck Ambrosia
Kirksville Livestock, LLC
24295 Benton Road, Kirksville, MO
660-342-3530 kirksvillivelivestock.com
Auctioneer: Brian Curlless

Basic Program Requirements

- Heifers have met minimum standards for reproductive soundness, pelvic size, body condition and weight, and are free of blemishes.
- Heifers have been bred to bulls meeting strict calving ease/birth weight EPD requirements.
- A strict immunization program has been followed.
- Heifers will calve from late January to May 1. Many have been synchronized and will calve in a short time period.

The sale committee and consignors wish to thank all who have contributed to the success of this program. Your faith in our ability to make this program work is appreciated.

SHOW-ME-SELECT® PROGRAM PARTNERS

University of Missouri Extension

University of Missouri College of Agriculture, Food & Natural Resources (CAFNR)

University of Missouri College of Veterinary Medicine

Missouri Cattlemen's Association

Missouri Livestock Market Association

Missouri Veterinary Medical Association

Missouri Department of Agriculture

SALE PROCEDURE

The sale order is determined by the producer sale committee. Heifers will be sold in uniform lots, sorted according to breed type, size and calving dates. Heifers selling together are expected to calve within a 45-day period. Heifers become the property of the purchaser immediately after the sale. Each animal will be at the purchaser's risk as soon as sold. No cattle will be loaded until the conclusion of the sale. All fees will be collected by Kirksville Livestock, LLC and are to be settled before loading the cattle.

GUARANTEE

All heifers are guaranteed bred and are guaranteed to remain pregnant for 30 days after the sale. Due dates are approximate. Females can range 2 weeks or more even if AI bred on the same day. Any heifer found open (by an accredited veterinarian) will be refunded by the consignor. All guarantees are made by the consignor of the cattle and not the sale committee, Adair County MU Extension or Kirksville Livestock, LLC. Calves of Show-Me-Select Replacement Heifers are warranted to be free of genetic defects for a period of six (6) months

from date of purchase. Heifers that give birth to an affected calf (exhibits the genetic defect), which is subsequently proven by diagnostic lab or DNA testing to be a genetic defect will have the full purchase price of the heifer plus the DNA testing charge refunded to the buyer by the seller. Please refer to the Show-Me-Select Replacement Heifer Programs terms and conditions for complete guarantee details.

TAGS

A special tag that carries the "Show-Me-Select"® trademark and name identifies all heifers in the sale. This tag signifies that the heifers have met all the requirements of the Missouri "Show-Me-Select"® replacement heifer program. Some heifers may carry a white Show-Me-Select tag. This identifies them as Tier Two heifers which is explained in more detail later in this catalog.

HEALTH

Necessary health papers will be available on all heifers after the sale. All heifers have tested negative for BVD-PI.

Bennett Farms, Browning, MO**(660) 973-3925**

- 20 fancy purebred Angus heifers. 19 are registered with American Angus Association.
- All heifers are home raised on fescue pasture.
- Synchronized and AI'd then turned with natural service sire.
- Reputation set of heifers from a multiple year SMS consigner.
- Calving dates: AI: 2/14; NS: 3/1 to 3/21.

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
Galaxy Red State 4193 (Angus) 20889065	+7 (.33)	+2.5 (.49)	+91 (.41)	+165 (.37)	+30 (.27)	+81 (.34)	+78 (.34)	+1.30 (.32)	-.002 (.30)
NATURAL SERVICE SIRES									
BAF Stockton 3042 (Angus) 20813582	+12 (.31)	+0 (.52)	+80 (.45)	+134 (.40)	+33 (.28)	+70 (.35)	+98 (.31)	+51 (.29)	+0.61 (.27)
BAF Stockton 3044 (Angus) 20803115	+12 (.30)	+1.5 (.52)	+84 (.44)	+141 (.36)	+38 (.28)	+68 (.34)	+67 (.31)	+58 (.29)	+0.39 (.27)

Brickhouse Farms, LLC, Tina, MO**(660) 542-4033**

- 13 fancy Red and RWF heifers with a few black and BWF heifers
- Brickhouse Farms are bringing their best heifers that will add value to any cattleman's herd.
- Home raised and developed on fescue pasture. Excellent disposition.
- 10 reds are all confirmed AI bred. 1 black confirmed AI and 2 natural serviced heifers.
- Calving dates: AI: 2/20, NS: 3/9-4/8

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRES</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
LEM Stockmarket 2021 ET (Red Angus) 4659209	+16 (.50)	-2.0 (.54)	+85 (.49)	+145 (.49)	+23 (.24)	+35 (.44)	+76 (.41)	+17 (.43)	+0.0 (.37)
Berwald Blk Confidence 3093 (Red Angus) 4847018	+18 (.42)	-3.4 (.46)	+76 (.43)	+118 (.42)	+24 (.14)	+29 (.36)	+71 (.38)	+47 (.35)	+0.3 (.32)
NATURAL SERVICE SIRES									
BKF One Stock 2406 (Red Angus) 4902766	+16 (.37)	-2.8 (.55)	+76 (.48)	+144 (.43)	+31 (.35)	+67 (.42)	+1.15 (.40)	+83 (.40)	+0.08 (.38)
BKF One Stock 2408 (Red Angus) 4902756	+16 (.40)	-2.3 (.43)	+79 (.40)	+138 (.40)	+30 (.13)	+26 (.30)	+76 (.31)	+19 (.28)	+0.2 (.29)

VanWye Red Angus, Lancaster, MO**(309) 212-4838**

- 9 purebred Red Angus or Red Angus low percentage Simmental heifers and 1 black heifer.
- 4 heifers will be Registered Red Angus sired by Energize son from Biebers Red Angus herd.
- Commercial heifers originated from South Dakota with Gill genetics. Developed on Missouri pasture.
- Excellent dispositions to suit anyone.
- Calving dates: AI: 2/20, NS: 3/9-4/8

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
PIE Captain 057 (Red Angus) 4388923	+15 (.77)	-5.1 (.91)	+67 (.88)	+113 (.88)	+40 (.69)	+7 (.66)	+42 (.63)	+34 (.58)	+0.6 (.50)
NATURAL SERVICE SIRE									
LSF Identity 4150M (Red Angus) 4909566	+14 (.44)	-4.7 (.47)	+84 (.46)	+128 (.46)	+31 (.21)	+24 (.41)	+57 (.41)	+22 (.39)	+0.1 (.35)

David Hill, Kirksville, MO**(832) 212-3643**

- 6 head fancy Simmental/Angus cross heifers. 5 black and one red heifer.
- Heifers have been hand-fed and slowly developed on fescue pasture. Never pushed.
- Home raised and great disposition. All heifers are confirmed AI bred. Multi-year consigner.
- EWA Peyton- Genomic champ. Ranks in the top 10% for 15 different traits and indexes.
- Calving date: AI: 4/6

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
E W A Peyton 642	+9	+2.1	+95	+166	+27	+80	+1.10	+76	+.052
<i>(Angus) 18675107</i>	<i>(.81)</i>	<i>(.94)</i>	<i>(.92)</i>	<i>(.88)</i>	<i>(.82)</i>	<i>(.64)</i>	<i>(.59)</i>	<i>(.60)</i>	<i>(.56)</i>

David Clark, Edina, MO**(660) 216-1107**

- 20 fancy Angus, Angus cross and Simmental/Angus heifers. Mostly black and a few BWF.
- Synchronized and FTAI then turned with natural service sires.
- Excellent disposition.
- Reputation set of heifers from a multi-year SMS consigner.
- Calving dates: AI: 2/11; NS: 3/1 to 4/11.

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
Connealy Guard Rail 923E	+13	-3.0	+62	+106	+30	+37	+83	+41	+.021
<i>(Angus) 19829215</i>	<i>(.76)</i>	<i>(.89)</i>	<i>(.86)</i>	<i>(.79)</i>	<i>(.51)</i>	<i>(.61)</i>	<i>(.56)</i>	<i>(.57)</i>	<i>(.53)</i>
NATURAL SERVICE SIRES									
Clark Entice 07H	+9	-.4	+63	+109	+25	+34	+66	+65	-.028
<i>(Angus) 20272964</i>	<i>(.34)</i>	<i>(.53)</i>	<i>(.43)</i>	<i>(.37)</i>	<i>(.32)</i>	<i>(.37)</i>	<i>(.36)</i>	<i>(.34)</i>	<i>(.33)</i>
TBK B&B Pathfinder	+11	-.2	+60	+110	+29	+48	+72	+58	+.039
<i>(Angus) 21065988</i>	<i>(.33)</i>	<i>(.55)</i>	<i>(.46)</i>	<i>(.35)</i>	<i>(.31)</i>	<i>(.36)</i>	<i>(.33)</i>	<i>(.31)</i>	<i>(.30)</i>

Daniel Smith, Gibbs, MO**(660) 341-8396**

- 6 head Fancy Angus heifers.
- Home raised. Sired by Perry Angus bulls.
- Synchronized and FTAI then turned with natural service sire.
- Heifers developed on northeast MO fescue pasture. Excellent disposition.
- Calving dates: AI: 2/22; NS: 3/14 to 4/18.

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
PAA Prediction 6762	+14	-1.5	+67	+116	+35	+43	+87	+51	+.070
<i>(Angus) 18654423</i>	<i>(.59)</i>	<i>(.79)</i>	<i>(.74)</i>	<i>(.63)</i>	<i>(.45)</i>	<i>(.49)</i>	<i>(.44)</i>	<i>(.45)</i>	<i>(.41)</i>
NATURAL SERVICE SIRE									
Perry Patriarch 329	+7	+1.5	+80	+144	+23	+61	+89	+65	+.013
<i>(Angus) 20899518</i>	<i>(.36)</i>	<i>(.54)</i>	<i>(.46)</i>	<i>(.41)</i>	<i>(.35)</i>	<i>(.39)</i>	<i>(.38)</i>	<i>(.37)</i>	<i>(.35)</i>

Galaxy Beef, Randy Miller, Macon, MO**(660) 415-6339**

- 47 head. 30 commercial Red Angus and 17 commercial Black Angus.
- All heifers raised and bred in north central Missouri and fescue tolerant.
- Sorted for quality and disposition. Will sell in uniform packages with narrow calving windows.
- Bred to excellent calving ease bulls with added carcass and growth traits.
- Calving dates: AI: 2/5-2/25 and NS: 3/2-4/10

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRES</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
HCC Whitewater 9010 (Angus) 19870506	+8 (.78)	-.8 (.93)	+67 (.91)	+122 (.85)	+26 (.64)	+72 (.58)	+1.27 (.53)	+1.46 (.54)	+.072 (.49)
Jacobson Freedom 4056 (Red Angus) 1699260	+17 (.69)	-3.6 (.82)	+69 (.76)	+104 (.75)	+24 (.62)	+12 (.57)	+.72 (.57)	-.32 (.55)	+.01 (.45)
NATURAL SERVICE SIRES									
Galaxy Pistol 3207 (Angus) 20656157	+12 (.35)	-.2 (.53)	+86 (.43)	+155 (.38)	+35 (.30)	+81 (.37)	+1.43 (.36)	+1.38 (.34)	-.031 (.32)
Galaxy Congress 3085 (Angus) 21154759	+9 (.33)	+1.6 (.48)	+86 (.41)	+151 (.36)	+27 (.29)	+88 (.36)	+1.34 (.36)	+1.36 (.34)	-.011 (.33)
Galaxy Victory 3860 (Angus) 20830169	+12 (.34)	+2 (.54)	+89 (.46)	+154 (.41)	+29 (.29)	+69 (.38)	+1.46 (.36)	+1.17 (.35)	-.038 (.33)
Galaxy Gettysburg 3553 (Angus) 20936963	+13 (.32)	+1 (.49)	+87 (.42)	+149 (.36)	+36 (.28)	+76 (.35)	+1.28 (.34)	+1.74 (.32)	-.036 (.30)
BRAX Leading Edge 2150 (Red Angus) 4590015	+14 (.43)	-1.6 (.46)	+71 (.45)	+111 (.45)	+28 (.28)	+30 (.38)	+.59 (.36)	-.09 (.36)	+.03 (.32)
BRAX 1732 (Red Angus) 4730737	+16 (.24)	-3.7 (.26)	+62 (.34)	+91 (.33)	+22 (.32)	+19 (.22)	+.55 (.17)	+.03 (.21)	+.01 (.15)

Luke West, Queen City, MO**(620) 215-5770**

- 50 fancy Black, BWF, and purebred Hereford heifers.
- Developed on fescue, hand fed but not pushed.
- Real cattlemen's front pasture kind.
- Synchronized and bred off heat, then turned with natural service sires.
- Calving dates: AI: 2/15, NS: 3/3-4/7

Service Sires		Expected Progeny Differences (EPDs)							
<i>AI SERVICE SIRES</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
GAR Sure Fire (Angus) 17328461	+12 (.93)	+0 (.97)	+54 (.97)	+102 (.95)	+27 (.93)	+46 (.89)	+1.29 (.87)	+.63 (.87)	+.031 (.86)
Tehama Tahoe B767 (Angus) 17817177	+9 (.94)	+.3 (.98)	+79 (.97)	+133 (.96)	+25 (.92)	+54 (.81)	+.88 (.78)	+.71 (.78)	+.026 (.76)
NATURAL SERVICE SIRES									
4 Sons Crosswind 8M30 (Angus) 20934689	+15 (.34)	-1.6 (.51)	+81 (.43)	+140 (.37)	+25 (.29)	+74 (.36)	+1.77 (.35)	+1.17 (.34)	+.047 (.32)
4 Sons Crosswind 8M28 (Angus) 20934690	+15 (.35)	-1.4 (.52)	+76 (.44)	+133 (.38)	+20 (.30)	+67 (.37)	+1.90 (.36)	+.94 (.35)	+.032 (.33)
Galaxy Clarity 2540 (Angus) 20619559	+13 (.36)	-.2 (.53)	+70 (.44)	+131 (.39)	+23 (.35)	+63 (.39)	+1.08 (.38)	+1.12 (.37)	-.005 (.35)

E&A Belgian & Cattle Farm, Ernest Girod, Corydon, IA

(636) 284-9917

- 25 fancy Angus/Simmental cross heifers.
- Front pasture kind, hand fed. Excellent disposition.
- These Heifers have been genomically tested and are qualified for Show-Me Plus!
- Had pinkeye vac and first round scour boss.
- All naturally serviced by calving ease Angus bulls.
- Pregnancy confirmed with ultrasound, and will be grouped for very tight calving window.
- Developed to stay profitable for a long time, will be above average milkers, appreciate the Quality here!
- Calving dates: NS: 2/28-4/15



Service Sires	Expected Progeny Differences (EPDs)								
NATURAL SERVICE SIRES	CED	BW	WW	YW	Milk	CW	Mrb	REA	Fat
Hoffman Justify 4071 (Angus) 20971674	+11 (.35)	-2.7 (.52)	+65 (.44)	+123 (.39)	+27 (.34)	+44 (.37)	+1.03 (.36)	+.82 (.35)	+.033 (.33)
Mead Commerce 41214 (Angus) 21029425	+15 (.35)	-1.8 (.51)	+74 (.44)	+134 (.39)	+17 (.31)	+45 (.39)	+1.19 (.38)	+.31 (.37)	+.075 (.35)
Mead Pay Dirt 41698 (Angus) 21029458	+17 (.35)	-1.5 (.55)	+80 (.47)	+140 (.42)	+32 (.34)	+68 (.39)	+.79 (.37)	+.45 (.36)	+.052 (.34)
Meyer Testament 4107 (Angus) 21124404	+17 (.37)	-2.1 (.54)	+74 (.46)	+126 (.41)	+22 (.31)	+58 (.37)	+.66 (.34)	+.57 (.33)	+.036 (.31)



660-665-9804
kirk livestock@nemr.net
kirksvillelivestock.com
f @KirksvilleLivestock

Open Sundays to receive your livestock. Serving all your livestock marketing needs.
Our modern facility and professional workforce serve both buyer and seller.

SALE EVERY MONDAY!

REGULAR SALES

Feeder Cattle 11:00 am, followed by slaughter cows and bulls

SPECIAL FEEDER CATTLE SALES

11:00 am, followed by slaughter cows and bulls

SPECIAL SHEEP & GOAT SALES

1st Monday of the month, 10:00 am

SPECIAL BRED HEIFER, COW & BULL SALES

1st Friday evening of the month, 6 pm

Phone for information

Patty Foster, office: 660-665-9804
Chuck Ambrosia, owner: 660-342-3530
Luke West, owner: 620-215-5770

Watch our sales on Facebook
Bid online with **DVAuction**

Proud to be home of the
North Central
Missouri
Show-Me-Select
Bred Heifer Sale



Thank you to Chuck and the crew at Kirksville Livestock, LLC
for hosting the 2025 North Central Missouri
Show-Me-Select Bred Heifer Sale.

Requirements for Heifers in the 2025 Replacement Heifer Sale

These requirements are designed to minimize the incidence and severity of calving difficulty and protect against potential reproductive losses. Heifers must be bred to service sires at or above established calving ease EPD's minimums, have a minimum pelvic area of 150 cm² pre-breeding or 180 cm² at pregnancy examination, be a minimum body condition score of 5 and a maximum of 8 on sale day, and meet established health guidelines.

Fall 2024:

- Heifers are vaccinated for IBR, PI-3, BVD, BRSV, and 7-way Clostridia. Label directions concerning initial vaccination and boosters must be followed.
- Use of implants is discouraged. If heifers are implanted, only FDA approved products for replacement heifers are allowed according to label guidelines.
- Long-term use of MGA is prohibited. Use of MGA for periods up to 14 days to synchronize estrus is permitted.
- Internal and external parasites are controlled as needed.
- Heifers must be polled or de-horned and completely healed by sale day.

Spring 2025:

- Pre-breeding reproductive examination is performed.
- Reproductive tract scored, pelvic measurement, weighed.
- Heifers are vaccinated for IBR, BVD, Leptospirosis and Vibriosis between 60 and 30 days prior to beginning of breeding. All vaccinations must follow label directions.
- Internal and external parasites are controlled as needed.

Fall 2025:

- Heifers are pregnancy examined by 90 days to determine breeding dates. (Confirm AI pregnancy or natural service). A preg check is also done within 30 days of the sale.
- Heifers are treated for external and internal parasites within 30 days of sale date. Products for internal parasite control must have a label claim for all stages of the parasite life cycle.
- Leptospirosis (5-way) given at preg check.
- Heifers are examined on sale day by a final screening committee to eliminate blemishes (scarred eyes, frozen ears, short tails, rat tails.) They must have a muscle score of at least a 2 and not have an undesirable disposition.
- Tested negative for BVD-PI.

Heifers must be bred to bulls with birth weight or calving ease EPD's that meet the guidelines for the following breeds based on the current genetic evaluation at the time of breeding for the respective breed associations. Accuracy values of 0.6 or better for birth weight and calving ease EPDs are required on AI sires:

<u>Calving Ease</u> (equal to or greater than)			
Angus	7.0	Limousin	14.0
Balancer	14.0	Hereford	6.4
Charolais	15.4	Red Angus	14.0
Gelbvieh	14.0	SimAngus	14.0
LimFlex	14.0	Simmental	14.0

Tier 2 classification: Heifers will be eligible to qualify for Tier 2 in the Show-Me-Select Replacement Heifer Program based on the following minimum accuracies of the heifer's sire at the time of sale for the respective traits listed at right.

<u>Trait</u>	<u>Accuracy</u>
Calving ease (direct)	.65
Calving ease (maternal)	.30
Weaning weight	.75
Carcass Weight	.20
Marbling	.20

Managing Your Show-Me Select Replacement Heifers

Your investment in Show-Me-Select replacement signifies a commitment to improving the genetic quality and reproductive efficiency of your beef herd. Replacement heifers require specialized care and management until they enter the breeding herd as mature cows. To protect your investment, you may find the following guidelines helpful.

Targets

At the time of purchase, your heifers will weigh approximately 75 to 85% of their mature weight with a minimum body condition score of 5.

- Heifers should reach 85% of their mature weight by first calving.
- Heifers should calve and begin lactating at a body condition score of 6.
- In order to reach these targets on schedule, heifers should be fed to gain between 0.5 to 0.75 per day minimum from now until calving.

Nutritional Management from Purchase to First Calving

Gains of the desired magnitude can be a challenge during winter months. Additionally, heifers are then entering the final trimester of pregnancy when a majority of fetal growth occurs. To ensure heifers enter calving season at the proper target weight and body condition several things are required.

- Heifers should be maintained separately from older animals if at all possible. This is necessary to minimize undesirable social interaction at the feed bunk, water tank, and mineral feeder.
- Diets should meet certain nutritional standards. Crude protein of the diet should be 12.5 to 13%. Net energy for maintenance and gain should be approximately 0.65 and 0.32 Mcal/lb, respectively. These energy levels are roughly equal to 60% dietary TDN.
- Good-quality trace mineral salt and vitamin supplement should be made available and be offered free choice or mixed with another component of the diet.
- Body condition of heifers should be monitored. Heifers should not lose or gain more than 1 body condition score from now until calving. A change in 1 body condition score reflects a net weight gain or loss of approximately 80 pounds.

Nutritional Management from Calving through Breeding

In many cases, pasture will allow acceptable performance during the spring and early summer. Proper supplementation of trace minerals and vitamins remain a critical feature of management during this period, but energy deficiencies are more likely to create problems with re-breeding. Body condition must be monitored to determine if supplemental feeding is necessary. Failure to provide supplemental energy, if needed, can delay the onset of cycling, lengthen the time from calving to 1st heat post-calving and potentially result in decreased pregnancy rate.

Examples of energy supplements suitable for heifers during early lactation include: high-quality forages, cracked corn, soybean hulls or corn gluten feed fed at varying amounts according to condition and weight gain desired. Proper pre- and post-calving nutritional management of your Show-Me-Select replacement heifer should ensure successful re-breeding. Consult your local university extension professional and/or veterinarian for nutritional counseling, should you have any questions.

USING THE CATALOG EPD INFORMATION

Expected Progeny Differences (EPDs) provide the best means of comparing genetic merit of animals within the breed. For each trait evaluated, the EPD incorporates the animals within the breed. For each trait evaluated, the EPD incorporates the animal's individual and progeny performance with progeny performance information from other relatives.

By utilizing national sire evaluation information, the evaluation also utilizes information from related traits and accounts, in part, for differences in the genetic merit of herd mates as well as genetic trends within the breed. Each trait evaluation predicts expected progeny performance relative to a fixed breed average - hence the term "Expected Progeny Difference." The key word is "difference". The EPD itself does not imply "good" or "bad" performance, only whether the performance of progeny is expected to be above or below that of progeny from average parents.

Breeders should, on an individual basis, decide what is best for them by considering what traits are important to their program, their current herd performance, and the degree of change desired.

Example:

Service Sires	Expected Progeny Differences (EPDs)								
<i>AI SERVICE SIRE</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
Lucky Strike 147G (Black Simmental)	+11 (.94)	1.4 (.95)	+53 (.95)	+81 (.95)	+14 (.93)	+21 (.61)	+40 (.83)	+1.04 (.83)	-.04 (.83)

Accuracy (acc): A measure of certainty regarding the EPD evaluation for a performance trait. Accuracy is reported as a decimal number between zero and one; larger values indicate greater accuracy and more certainty that the EPD will not change significantly as additional progeny information is obtained. Accuracy values of less than .20 are typical for non-parent bulls.

Calving Ease Direct (CED): Expressed as a difference in percentage of unassisted births, with a higher value indicating greater calving ease in first-calf heifers.

Birth Weight EPD (BW): The expected difference in average birth weight (lbs) of progeny. Birth weight reflects prenatal growth potential and may also be used as an indicator of calving ease.

Weaning Weight EPD (WW): The expected difference in average weaning weight (lbs.) of calves. The evaluation reflects genetic influence on pre-weaning growth rate.

Yearling Weight EPD (YW): The expected difference in average yearling weight (lbs.) of progeny. The evaluation reflects genetic influence on pre-weaning and post-weaning growth rate.

Maternal Milk EPD (Milk): The expected difference in average weaning weight (lbs.) of

daughter's calves, which is attributed to milking ability. In other words, it is a predictor of a sire's genetic merit for milk and mothering ability as expressed in his daughters.

Carcass Weight (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 (Mrb): 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 (REA): Expressed in square inches, is a predictor of the difference in ribeye area of a sire's progeny compared to progeny of other sires.

Fat Thickness (Fat): Expressed in inches, is a predictor of the differences in external fat thickness at the 12th rib (as measured between the 12th and 13th ribs) of a sire's progeny compared to progeny of other sires.

Interim EPD (I): An "I" indicates an interim EPD, which is an average of the parents' EPD, plus whatever information is available for the animal. The animal does not have official National Cattle Evaluation EPDs.

Fall 2025 Breed EPD Averages for Current Sires									
<i>Breed</i>	<i>CED</i>	<i>BW</i>	<i>WW</i>	<i>YW</i>	<i>Milk</i>	<i>CW</i>	<i>Mrb</i>	<i>REA</i>	<i>Fat</i>
Angus	+6.0	+1.3	+65	+115	+26	+49	+64	+63	+0.18
Red Angus	+13.0	-1.7	+67	+107	+26	+25	+44	+17	+0.02
Simmental Hybrid	+12.7	+0.00	+77.1	+119.6	+23.6	+37.4	+38	+68	-.03