

80th Indiana Beef Evaluation Program
Performance Tested

BULL SALE

Angus, Hereford,
Simmental, and SimAngus

Held in conjunction with

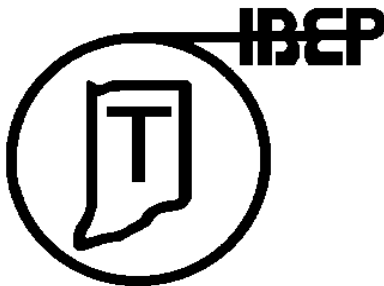
SPRINGVILLE FEEDER AUCTION ASSOCIATION HEIFER AND COW SALE

*Saturday, October 21, 2017
Heifers & cows sell starting at 2:00 p.m.
Bulls will sell immediately following*

*Springville Feeder Auction
10 miles northwest of
Bedford, Indiana
on State Road 54-58*

Sale will be broadcast on **DVAuction** Broadcasting
Real-time Auctions

SPONSORED BY:



Indiana Beef Evaluation Program
Dept. of Animal Sciences
915 W. State St.
West Lafayette, IN 47907-2054
Office: (765) 494-6439
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Station: (812) 279-8554

Springville Feeder
Auction Association
PO Box 94
Springville, IN 47462
(812) 279-1282

Sale Day Phone: (812) 279-1282

Welcome

Welcome to the 80th Indiana Beef Evaluation Program (IBEP) sale.

During the past 40 years, 11,212 bulls and 1,253 get-of-sire groups have been performance tested by IBEP. While most bulls have come from Indiana breeders, cooperators from the four states bordering Indiana and from as far away as Texas, Montana, Kansas, Maryland, and Canada have tested or are now testing bulls at IBEP.

In 79 sales, 5,804 bulls have been sold to buyers in 21 states. Ninety percent have been purchased by Indiana producers, 8% by producers in bordering states, and the remainder by producers from sixteen other states.

The IBEP appreciates the opportunity to work closely with seedstock and commercial beef producers in identifying potential herd bulls with superior genetics for production and maternal traits and for carcass merit, and to assist in making those genetics available to the beef cattle industry.

The IBEP also appreciates the excellent working relationship and cooperation provided by the Springville Feeder Auction Association. Since April 1990, 4,253 bulls have been sold at this facility. This will be the 56th IBEP sale held at Springville.

The 33 head offered for sale represent the top-indexing bulls of their breed, and have passed a rigorous evaluation for disposition and structural and breeding soundness. A total of 68 bulls consigned by 33 different seedstock producers from Indiana, Illinois, Ohio, and Wisconsin participated in this test. All bulls were measured by a certified CUP technician using ultrasound to evaluate carcass merit. EPD's for production and maternal traits as well as for carcass traits are included. In addition, a number of breeds have added multi-trait \$ Indexes to assist producers in evaluating potential herd sires.

We feel that with the information gathered and provided on these bulls, both seedstock and commercial producers can make sound decisions in the area of beef improvement, value, and profitability.

We look forward to a successful sale, and hope you find something that fulfills your needs and will add value to your herd.

Sincerely,

IBEP Board of Directors

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An explanation of Sale Order can be found on page 8.

The Verizon cell tower at Springville is now operational



We are pleased to offer the 80th IBEP Bull Sale broadcast “live” over the Internet through DVAuction Services.

First Time Users:

- Visit the DVAuction web site at www.dvauction.com.
- Click on the Register Tab.
- Complete Registration and Applying to Bid at “The 80th IBEP Bull Sale”.

DVAuction will be contacting your bank to verify information.

DVAuction will contact you to let you know that you have been approved to bid and buy at the sale “live” from your computer at home.

Note: You must have high speed internet access (DSL, T-1, or Broadband) to be able to bid during the sale. **If you have issues when viewing the sale, call DVAuction at 402-474-5557.**

If you purchase bulls:

- Bulls should be picked up **Saturday, October 21 following the sale** at the Springville Feeder Auction unless prior arrangements have been made. After October 21, bulls should be picked up **Monday, October 23** at the IBEP Bull Test Station. Payment is required prior to bulls being picked up, unless arrangements have been made before the sale. Make checks payable to **Indiana Beef Evaluation Program** or **IBEP**.
- Arrangements for payment can be made by contacting IBEP at 765-494-0138 before the sale. Arrangements for picking up your purchases can be made by contacting the IBEP Bull Test Station at 812-279-8554 prior to or after the sale. Sale day phone is 812-279-1282.

If you have questions, contact Dan with DVAuction at 402-649-3172 or dbroz@dvauction.com, or call DVAuction at 402-474-5557.

We recommend that you register by **October 17, 2017** for on-line bidding. Every attempt will be made to complete your application even if it is on sale day.

<u>Sale Site</u>	<u>IBEP Bull Test Station</u>	<u>IBEP Business Office</u>
Springville Feeder Auction 4426 State Road 54 West Springville, IN 47462 812-279-1282	Feldun-Purdue Ag Center 1117 State Road 458 Bedford, IN 47421 812-279-8554	Indiana Beef Evaluation Program Lilly Hall, Animal Sciences 915 W. State St. West Lafayette, IN 47907-2054 765-494-0138

Rules and Regulations

Rules for this 80th performance test and sale were the responsibility of the IBEP Board of Directors. This performance test was conducted at the Feldun-Purdue Ag Center at Bedford. The ration was 22% corn, 55% wheat silage and corn silage, and 23% DDGS and balancer on a dry basis. Bulls were delivered May 2, began test May 23 and ended test September 25. Bulls must have met the following requirements:

GENERAL:

- Born May 1 through October 31, 2016.
- Be from herd participating in official breed or state on-farm performance testing program.

PERFORMANCE:

- Have recorded birth weight and official adj. 205-day data.
- Have EPDs for birth weight, weaning weight, and maternal milk.
- Weigh at least 450 lbs. and 2.25 lbs. per day of age on delivery at Station.

HEALTH:

- Tested at delivery and are negative for persistent BVD infection.
- Dam or birth mother tested negative for Johne's Disease.
- Vaccinated against the following diseases between 2 months and 3 weeks prior to delivery: Leptospirosis, IBR, BVD, PI3, BRSV, haemophilus somnus, pasteurilla, and clostridial organisms (7-way vaccine for blackleg, malignant edema, overeating disease, etc.).
- Negative to tuberculosis and brucellosis tests within 30 days of sale.
- Have an official health certificate both at time of delivery and at this sale.
- Official Certificates of Veterinary Inspection will be furnished to buyers.

SOUNDNESS:

- Pass inspection by a screening committee for: health, structural soundness and disposition.
- Pass a breeding soundness test including a physical exam, semen evaluation and adjusted scrotal circumference.

BREEDING GUARANTEE: All bulls were examined for semen quality and breeding soundness on September 28, and were classified as satisfactory potential breeders. Any guarantee or terms and conditions endorsed by respective breed associations is between buyer and seller. Neither the Indiana Beef Evaluation Program, Purdue University, nor other persons associated with the sale will assume any liability, legal or otherwise, except to assist, if possible, to make adjustments.

BIDDING: All bulls will be sold to the highest bidder. The auctioneer will settle all disputes as to bids, and his decision will be final.

FLOOR PRICE: Bulls will be sold at a minimum of \$1,650 each; the IBEP board reserves the right to adjust the floor price based on changes in market prices between the printing of the catalog and the sale date. Those bulls not reaching the floor price remain the consignor's property and may not be sold on the sale premises at private treaty.

TERMS: The terms of the sale are strictly cash. Make checks payable to: Indiana Beef Evaluation Program (IBEP).

HANDLING: All bulls are seller's risk until sold and buyer's risk as soon as sold. If not convenient for the buyer to remove his bull(s) the day of the sale, bulls will be cared for until 12:00 Noon, October 23, 2017, but at the buyer's risk of injury or loss. All bulls must be paid for or prior arrangements made before being released and loaded. Bulls must be removed by 12 Noon, Monday, October 23.

REGISTRY AND TRANSFER: Certificates of registry will be transferred to the buyer by the seller within a reasonable time period after the sale at the seller's expense.

LIABILITY: All persons attending the sale do so at their own risk. Neither the Indiana Beef Evaluation Program, Purdue University, nor any person connected with the sale will assume any liability, legal or otherwise in case of accidents.

ANNOUNCEMENTS: Any changes from information in the catalog will take precedence.

AUCTIONEER: Mike Berger, 408 King Rd., Bremen, IN 46506, phone 574-784-3800.

Adj. REA and **Adj. Rib Fat** are the Rib Eye Area and Rib Fat measured by ultrasound at the 12th rib, adjusted to 365 days of age. Breed-specific adjustments are used. ^ Denotes that the breed association does not adjust this ultrasound information to 365 days of age, so this is the actual record (unless otherwise specified). **Adj. REA/cwt** is the adjusted Rib Eye Area expressed per hundred pounds of live weight. The 365-day weight is used as the live weight measurement; if REA is not adjusted to 365 days, the weight at scanning is used.

Adj. % IM Fat is the % intramuscular (IM) fat measured by ultrasound, adjusted to 365 days of age. ^ Denotes that the breed association does not adjust % IM fat to 365 days of age, so this is the actual record (unless otherwise specified). In parentheses is the % IM fat expressed as a ratio, which compares the % IM fat to the breed average. A ratio of 124 indicates the bull had 24% more % IM fat than the average of his breed in this test. If there are fewer than 6 bulls of one breed, the ratio is based on the average % IM fat of all bulls on test. The % IM fat is a measure of marbling, which is one of the major factors influencing carcass Quality Grade. Comparing within a breed, bulls with higher % IM fat should sire calves with a greater ability to have a higher carcass Quality Grade than calves sired by bulls with lower % IM fat.

% Retail Product is estimated as $65.59 - 9.931*(\text{Rib Fat}) + 1.2259*(\text{Rib Eye Area}) - 0.013166*(\text{Carcass Weight}) - 1.29*(\text{KPH})$. Rib Fat and Rib Eye Area are adjusted to 365 days of age. Carcass Weight was estimated as $.60*(365\text{-day Weight})$; if the breed association does not adjust ultrasound information to 365 days of age, the weight at scanning is used instead of 365-day weight. A KPH (kidney, pelvic and heart fat) value of 2.0% was used for all bulls. In parentheses is the % retail product expressed as a ratio, which compares the % retail product to the breed average. A ratio of 101 indicates the bull is estimated to have 1% more % retail product than the average for his breed in this test. If there are fewer than 6 bulls of one breed, the ratio is based on the average % retail product of all bulls on test. The % retail product is heavily influenced by rib fat thickness and rib eye area, and highly related to carcass Yield Grade. Lower rib fat thickness and larger rib eye area result in greater % retail product. Comparing within a breed, bulls with higher % retail product values should sire calves with carcasses having more desirable Yield Grades than bulls with lower % retail product values.

Carcass Merit is calculated as $(\% \text{ Retail Product Ratio} + \% \text{ Intramuscular Fat Ratio})/2$. In this example, the carcass merit is $(124+101)/2 = 112.2$, indicating that his carcass merit is 12.2% above the breed average. Carcass merit is an attempt to provide an indicator of both carcass Quality Grade and carcass Yield Grade. Ideally, we would prefer bulls that were above average in both % retail product and in % IM fat. However, this is not always possible. Producers whose calves tend to have less than desirable Quality Grades need to place greater emphasis on % IM fat, while those with calves that tend to have poor Yield Grade (i.e., few Yield Grade 1 and 2 with some Yield Grade 4) need to place greater emphasis on % retail product.

EPDs: EPDs and (Accuracies) are given for several traits: Birth Weight, Weaning Weight, Yearling Weight, Maternal Milk, Direct Calving Ease, Maternal Calving Ease, Docility, Carcass Weight, Marbling, Rib Eye Area, Fat Thickness, Yield Grade, and Days to Finish. Exact traits will be different for each breed. **“Genomic EPDs”** means that the bull himself had a genomic test done, and this was incorporated into his EPDs. See the article **EPDs and \$ Indexes** for more information. The numbers in asterisks indicate the percentile group ranking of the bull in the breed, in 10% groups: *10* is in the top 1-10%, *9* is 11-20%, and so on; *2* is 81-90%; and *1* is 91-100% (the bottom 10%). Bulls are compared to non-parent EPDs from their respective breed associations; it is a ranking within the entire breed, not just the bulls in this test. It is only valid to compare EPDs of bulls within the same breed. Do not compare EPDs of bulls in different breeds.

\$ Indexes: These are multi-trait selection indexes calculated by some breed associations. These combine EPDs for several traits into a single economic value, which can be used to make selection decisions. The index values are interpreted like EPDs; the difference in index value between two bulls is the expected difference in average dollar value per head of their progeny, when the bulls are bred to similar cows. Typical beef production and economic values are used in calculating the indexes. Indexes are expressed in dollars per head, and higher indexes mean a higher dollar value per head. An index value only has meaning when it is compared to the index value of another animal of the same breed. Currently, indexes are calculated for Angus, Gelbvieh, Gelbvieh Balancer, Hereford, Limousin, Red Angus, Shorthorn, Simmental, and SimAngus bulls.

Angus indexes are Weaned Calf Value (\$W), Feedlot Value (\$F), Grid Value (\$G), Quality Grade (\$QG), Yield Grade (\$YG), and Beef Value (\$B).

Charolais index is Terminal Sire Index (TSI).

Gelbvieh indexes are \$Cow, Efficiency Profit Index (EPI), and Feeder Profit Index (FPI).

Hereford indexes are Baldy Maternal Index (BMIS), Calving Ease Index (CEZ\$), Brahman Influence Index (BIIS), and Certified Hereford Beef Index (CHB\$).

Limousin index is Mainstream Terminal Index (\$MTI).

Red Angus indexes are HerdBuilder Index (HB) and GridMaster Index (GM).

Shorthorn indexes are Calving Ease Direct (\$CEZ), British Maternal Index (\$BMI), and Feedlot (\$F).

Simmental and **SimAngus** indexes are All-Purpose Index (API) and Terminal Index (TI). See the article **EPDs and \$ Indexes** for more information. The numbers in asterisks indicate the percentile group ranking of the bull in the breed, in 10% groups: *10* is in the top 1-10%, *9* is 11-20%, and so on; *2* is 81-90%; and *1* is 91-100% (the bottom 10%). Bulls are compared to non-parent indexes from their respective breed associations; it is a ranking within the entire breed, not just the bulls in this test.

HOW SALE ORDER IS DETERMINED

Each bull is given a within-breed percentile group ranking (in *'s) for many traits, including performance during the test, EPD's, and \$ Indexes. These are in 10% groups, so a bull can get 1-10 *'s for each trait.

Sale Index is a weighted sum of the number of *'s for six of these traits: 30% ADG, 20% WPDA, 7.5% IMF, 7.5% REA/cwt, 20% Direct Calving Ease EPD, and 15% Weaning Weight EPD (Birth Weight EPD will be used if the bull does not have an EPD for Direct Calving Ease). The maximum Sale Index for a bull is 100.0.

Sale Order is determined by Sale Index. A bull with a Sale Index of 100.0 would sell first. If two bulls have the same Sale Index, sale order for these bulls will be based on their Performance Index.

Genetic Defects and IBEP Bulls

Currently, several lethal genetic defects which have DNA tests are being tracked by breed associations. Arthrogryposis Multiplex (AM), formerly called Curly Calf; Contractural Arachnodactyly (CA), formerly called Fawn Calf; Neuropathic Hydrocephalus (NH); and Osteopetrosis (OS) are found in Angus cattle. Alpha-Mannosidosis (MA) and OS are found in Red Angus cattle. Pulmonary Hypoplasia with Anasarca (PHA) and Tibial Hemimilia (TH) are found in Shorthorn and other breeds. Some non-lethal genetic defects are also tracked by various breed associations. These include: Developmental Duplication (DD), Dilutor (DL), Hypotrichosis (HY), Ideopathic Epilepsy (IE), Myostatin nt81 Gene Deletion (M1, also known as Double Muscling), and Oculotaneous Hypopigmentation (OH).

In the IBEP 2017 Summer Test, bulls had their status checked by their breed association. Any bulls which were potential carriers, or had unknown ancestry and were considered to be from a risk population, were tested to determine their genotype for the appropriate traits.

All bulls in the IBEP sale are AMF, CAF, NHF, MAF, OSF, M1F, IEF, DLF, or HYF (tested free), or have no carrier ancestors for those defects. Bulls that were tested free are noted with a suffix appended to their registration number.

IBEP does not track OH, but if a bull has been tested free, he is noted with an OHF suffix appended to his registration number.

Owners were requested to have their bulls tested if they were potential carriers of DD, and their status is noted in the catalog. Bulls are identified in one of three ways, with a DD suffix appended to their registration number.

Suffix:	Means this:
DDF	Bull has been DNA tested and is free of DD. The bull can be used with no risk of DD affected offspring.
DDC	Bull has been DNA tested and is a known carrier of DD. The defect will be transmitted to 50% of calves, so it is best to use these bulls in a commercial operation, where no replacements will be kept.
(no suffix appended)	Bull is not a descendent of a known carrier, or his ancestors have been tested free of DD. The bull is not suspected to carry DD and can be used for breeding with no increased risk of the defect.

There is 1 DDC bull in the sale. Others are either tested free or are not potential carriers.

Genomic and Parentage tests: If a bull has had a genomic test, the EPDs section will say "Genomic EPDs". If a bull has had a parentage test, his sire's name is noted with "verified".

EPDs and \$ Indexes

Donna L. Lofgren, Department of Animal Sciences, Purdue University

Development of animal breeding models and advances in computer technology have provided beef producers with selection tools which allow animals within a breed to be compared for their genetic merit. These selection tools are Expected Progeny Difference (EPD) for individual traits, and \$ Indexes which combine several EPDs into one economic value. Individual beef breed associations conduct National Cattle Evaluations (NCE) once or twice each year. The NCE combine individual records with pedigree and progeny data to calculate EPDs. Interim EPDs are calculated for young animals whose records are processed between the times of the NCE.

The difference in EPD of two bulls is the difference in expected progeny performance of their progeny, if the bulls are mated to similar cows and their progeny are in similar management and environmental conditions. EPDs are expressed in the same units as the trait. For example, Birth Weight, Weaning Weight, and Yearling Weight EPDs are in pounds, while Carcass Fat EPD is in inches. The sign of the EPD indicates direction; positive means larger (heavier weights), and negative (-) means smaller (lighter weights). Which direction is “good” depends on the trait. Positive EPDs would be good for weaning weight but may be bad for birth weight. EPDs are valid only for comparing bulls of the same breed. Do not compare EPDs of bulls in different breeds. (There is one exception. The Simmental, Red Angus, Chianina, Maine Anjou and Gelbvieh associations combine their data in one multi-breed evaluation. Therefore, EPDs from those breeds, including SimAngus and Gelbvieh Balancer, can be directly compared.)

Growth and Maternal Traits

- Birth Weight, in pounds, predicts the weight at birth of the bull’s progeny compared to progeny of other bulls. A bull with an EPD of -1 is expected to have progeny which average 3 lb lighter than progeny of a bull with an EPD of +2.
- Weaning Weight, in pounds, is a measure of the weaning growth of the bull’s progeny. Higher EPDs mean heavier calf weights.
- Yearling Weight, in pounds. Higher EPDs mean heavier weights for the bull’s progeny.
- Maternal Milk, in pounds, is measured by the weaning weight of the calves. It predicts the milking ability of the bull’s daughters, expressed as her calf’s weaning weight. Higher EPDs mean heavier calf weights due to the daughter’s milking ability.
- Direct Calving Ease is a measure of the ease with which a bull’s calves are born to first calf heifers. Higher EPDs mean fewer assisted births.
- Maternal or Daughters’ Calving Ease is a measure of the ease with which a bull’s daughters calve as first-calf heifers. Higher EPDs mean fewer assisted births.
- Docility is a measure of the temperament or disposition of the bull’s progeny. Higher EPDs mean more favorable docility.

Carcass Traits

Carcass traits may be measured at slaughter, or measured on live animals using ultrasound. Many breeds report EPDs for carcass traits, using one type of measurement or a combination of both. All measure the expected performance of the bull’s progeny. Different breeds calculate EPDs for different traits. Most breeds use a constant age endpoint for carcass data; however, Gelbvieh use a constant fat endpoint. Some breeds update interim EPDs after the bulls are scanned during the test.

- Carcass Weight, in pounds. Higher EPDs mean heavier weights.
- Marbling is a measure of the marbling score of a bull's progeny. It is a subjective measure of % intramuscular fat. Higher EPDs mean higher marbling scores.
- Fat Thickness, in inches, measures the fat thickness at the 12th rib of the bull's progeny. Higher EPDs mean greater fat thickness.
- Ribeye Area, in square inches. Higher EPDs mean a larger ribeye area.
- Yield Grade is a measure of the relative proportion of closely trimmed, boneless retail cuts from the bull's progeny. Higher EPDs mean higher yield grades, and thus a lower proportion of retail cuts.
- Percent Retail Cuts is a measure of the percentage of closely trimmed, boneless retail cuts from the bull's progeny. Higher EPDs mean a higher percentage of retail cuts.

\$ Indexes

These are multi-trait selection indexes, which combine EPDs for several traits into a single economic value, which can be used to make selection decisions. The index values are interpreted like EPDs; the difference in index value between two bulls is the expected difference in average dollar value of their progeny, when the bulls are bred to similar cows. Typical beef production and economic values are used in calculating the indexes. Indexes are expressed in dollars per head, and higher indexes mean a higher dollar value per head. An index value only has meaning when it is compared to the index value of another animal of the same breed. Currently, indexes are calculated for Angus, Charolais, Gelbvieh, Hereford, Limousin, Red Angus, Shorthorn, Simmental, and SimAngus bulls.

- Angus \$W is Weaned Calf Value. This is the expected average of future progeny for preweaning performance, within a typical beef cowherd. It accounts for the economic impact of birth weight, weaning weight, maternal milk, and mature cow size.
- Angus \$F is Feedlot Value. This is the expected average of future progeny for postweaning feedlot performance.
- Angus \$QG is Quality Grade. This is the quality grade segment of \$G. The carcass Marbling and ultrasound % Intramuscular Fat EPDs contribute to \$QG.
- Angus \$YG is Yield Grade. This is the yield grade segment of \$G. It combines ribeye, fat thickness, and weight into an economic value for red meat yield.
- Angus \$G is Grid Value. This is the expected average of future progeny for carcass grid merit. It combines \$QG and \$YG, so it focuses on quality and red meat yield simultaneously.
- Angus \$B is Beef Value. This is the expected average of future progeny for postweaning performance and carcass value. The \$B value combines information from \$F and \$G.
- Charolais TSI is Terminal Sire Index. It is the expected profit potential of terminal progeny. It incorporates growth and carcass EPDs.
- Gelbvieh \$Cow is the value of an animal when retained as a replacement female. It includes maternal productivity, but also considers her future progeny's feedlot and carcass value.
- Gelbvieh EPI is Efficiency Profit Index. It aids producers in selecting for feed efficient cattle with acceptable amounts of gain.
- Gelbvieh FPI is Feeder Profit Index. This is the expected performance of progeny in the feedlot and sold on a grade and yield standpoint. It is a terminal index, including growth and carcass traits.

- Hereford BMI\$ is Baldy Maternal Index. This is the expected average performance of progeny of Hereford bulls used in rotational crossbreeding programs on Angus-based cows and heifers, with the progeny marketed on a Certified Hereford Beef LLC pricing grid.
- Hereford CEZ\$ is Calving Ease Index. This is similar to BMI\$, except that the bulls are mated only to yearling heifers. It has increased emphasis on calving ease.
- Hereford BII\$ is Brahman Influence Index. This is similar to BMI\$, except that the bulls are mated to Brahman-based cows. It puts more emphasis on fertility and age at puberty, and less on growth and calving ease.
- Hereford CHB\$ is Certified Hereford Beef Index. This is the expected average performance of progeny of Hereford bulls mated to British-cross cows, with all progeny sold as fed cattle on a Certified Hereford Beef LLC pricing grid. It is a terminal sire index, including growth and carcass information only, since all progeny are marketed and no females are retained in the herd.
- Limousin \$MTI is Mainstream Terminal Index. This is the expected average profit per carcass of progeny of Limousin bulls mated to British-cross cows, with all calves placed in the feedlot and sold on a mainstream grid. It is a terminal sire index, including growth and carcass information only, since all calves are marketed and no females are retained in the herd.
- Red Angus HB is HerdBuilder Index. This is the expected average performance of progeny where replacement heifers are retained in the herd and all remaining progeny are sold on a quality-based carcass grid.
- Red Angus GM is GridMaster Index. This is the expected average performance of progeny which are all put on feed and sold on a quality-based carcass grid.
- Shorthorn \$CEZ is Calving Ease Direct. This index assumes a bull will only be mated to heifers. It is the expected average performance of progeny for profitability, which is measured by the incidence of live calves at birth.
- Shorthorn \$BMI is British Maternal Index. This is the expected average performance of progeny of Shorthorn bulls when mated to a British cow base. It has a balance of growth and carcass traits, with a strong maternal component.
- Shorthorn \$F is Feedlot. This is the expected average performance of progeny when sold on the fed market. It has a strong emphasis on growth and carcass traits.
- Simmental and SimAngus API is All-Purpose Index. This is the expected average performance of progeny of Simmental bulls used on the entire Angus cowherd, with a portion of the daughters being retained for breeding and the remaining progeny being put on feed and sold grade and yield.
- Simmental and SimAngus TI is Terminal Index. This is the expected average performance of progeny of Simmental bulls mated to mature Angus cows, with all offspring placed in the feedlot and sold grade and yield. It includes growth and carcass information only, since all progeny are marketed.

Accuracy

Most EPDs are reported with an Accuracy (ACC) value, which ranges from 0 to 1. It is a measure of the reliability of the EPD. EPDs will change and become more accurate as additional data on the bull and his relatives are processed by the breed association. For most yearling bulls, ACC is low, because they have not sired any progeny. Some breeds report the accuracy of these EPDs as BK, I, P, P+, or PE. These indicate that the EPD is based on pedigree data, or is an interim EPD based on pedigree data and the bull's own performance.

Percentile Tables

Average EPDs for most traits are not zero. The actual average will be different for each breed. Percentile tables must be used to determine where a bull's EPDs and indexes rank within the breed. EPDs and \$ Indexes for the bulls in the IBEP test should be compared to percentiles for non-parent bulls of the same breed. Look up the bull's EPD in the table to determine where he ranks in his breed. For example, an Angus bull with a Yearling Weight EPD of +100 lb. is in the top 30% of Angus non-parent bulls. An Angus bull with a Birth Weight EPD of +1.0 lb. is in the top 40%. Remember that for most traits, a positive EPD is desirable. However, for Birth Weight, Carcass Fat, and Yield Grade, a negative EPD is desirable.

The EPDs and \$ Indexes in the sale catalog are reported with the bull's percentile ranking in *'s. These are in 10% groups. An EPD with *10* is in the top 1-10% of the non-parent bulls of the breed, *9* is 11-20%, and so on; *2* is 81-90%, and *1* is 91-100% or the bottom 10%.

Percentile tables provided by the breed associations for breeds in the current IBEP test are available on our web site. (Although Simmental, Red Angus, Chianina, Maine Anjou and Gelbvieh association EPDs can be directly compared, percentile tables will be different for each breed.)

Indiana Beef Evaluation Program - 2017 Summer Test

Listing of Sale Bulls - Performance

Ear Tag	P E N	Breed	P Pct	C H	Bull Reg. No.	Bull's Sire	Birth		Off Test		U-sound adj to 365-d			Rank in Breed					Perf Index	
							M/D	Wt	Wt	ADG	REA	Rib Fat	%IM Fat	ADG	WPDA	SC	%Ret. Prod.	%IM Fat		
1	8	ANGUS	PB	P	BLK	18765838	SAV Ten Speed 3022	8/7	85	1465	3.90	14.6	0.28	2.98	*7*	*9*	*4*	*10*	*2*	107.1
4	8	ANGUS	PB	P	BLK	18658885	EXAR Denver 2002B	9/26	86	1380	3.71	13.9	0.48	3.62	*6*	*10*	*6*	*1*	*6*	107.3
5	8	ANGUS	PB	P	BLK	18658884	Car Don X Factor 836	9/19	76	1305	3.14	13.7	0.38	3.88	*2*	*8*	*10*	*6*	*7*	94.7
7	8	ANGUS	PB	P	BLK	18658880	EXAR Resistol 3710B	8/31	72	1320	3.52	14.6	0.23	2.98	*4*	*7*	*10*	*10*	*2*	99.1
9	7	ANGUS	PB	P	BLK	18772616	Hoover Advisor	9/18	83	1225	3.86	12.1	0.45	3.18	*7*	*6*	*5*	*1*	*4*	103.5
12	6	ANGUS	PB	P	BLK	18792572	JMB Traction 292	9/14	80	1190	3.89	14.2	0.42	3.31	*7*	*5*	*9*	*9*	*5*	102.3
14	8	ANGUS	PB	P	BLK	18747735	SAV Recharge 3436	8/14	80	1320	3.97	11.0	0.20	4.03	*8*	*6*	*7*	*2*	*8*	104.6
16	7	ANGUS	PB	P	BLK	18668053	SAV Resource 1441	9/15	82	1405	4.98	16.1	0.35	3.09	*10*	*10*	*5*	*9*	*3*	127.3
19	8	ANGUS	PB	P	BLK	18831432	SAV Net Worth 4200	8/18	84	1315	3.64	13.5	0.37	3.61	*5*	*6*	*7*	*5*	*6*	99.5
28	8	ANGUS	PB	P	BLK	18880457	RB Tour of Duty 177	5/8	78	1825	4.12	11.2	0.26	5.38	*9*	*10*	*8*	*1*	*10*	111.7
30	8	ANGUS	PB	P	BLK	18737397	Deer Valley All In	8/14	68	1335	3.70	12.7	0.17	3.06	*6*	*6*	*10*	*8*	*3*	100.8
32	7	ANGUS	PB	P	BLK	18737398	Deer Valley All In	9/5	72	1360	4.21	13.1	0.40	3.53	*9*	*9*	*8*	*4*	*5*	112.1
37	6	ANGUS	PB	P	BLK	18757178	MW Pendleton 35	9/20	79	1120	3.55	11.1	0.24	2.56	*4*	*4*	*8*	*4*	*1*	95.2
38	7	ANGUS	PB	P	BLK	18600437	MW Pendleton 35	9/18	82	1350	4.59	13.5	0.24	3.02	*10*	*10*	*8*	*6*	*3*	119.5
41	8	ANGUS	PB	P	BLK	18819048	RB Tour of Duty 177	6/7	75	1645	5.19	12.1	0.19	3.83	*10*	*8*	*5*	*4*	*7*	127.1
45	6	ANGUS	PB	P	BLK	18822479	Kiata New Design 3860	10/31	59	1125	3.42	12.8	0.43	3.57	*3*	*7*	*10*	*3*	*6*	97.9
46	7	ANGUS	PB	P	BLK	18772119	RB Tour of Duty 177	10/11	80	1230	3.78	13.4	0.34	2.98	*6*	*9*	*7*	*7*	*2*	105.0
47	8	ANGUS	PB	P	BLK	18695802	KCF Bennett Southside	9/7	88	1305	3.62	12.4	0.30	2.66	*5*	*7*	*10*	*6*	*1*	101.1
49	7	ANGUS	PB	P	BLK	18748645	Rathbun Accelerate Z523	9/10	82	1160	3.52	13.7	0.44	3.78	*4*	*4*	*5*	*7*	*7*	95.0
51	8	ANGUS	PB	P	BLK	18696035	KCF Bennett Southside	8/28	78	1370	3.94	12.7	0.34	3.14	*7*	*8*	*9*	*5*	*4*	107.1
58	8	ANGUS	PB	P	BLK	18583506	EXAR Stetson 3704B	8/1	68	1410	3.44	11.4	0.28	4.32	*4*	*6*	*6*	*3*	*9*	97.5
60	7	ANGUS	PB	P	BLK	18772921	WayView Rocky Top 010-264	8/29	77	1370	4.19	12.7	0.49	3.55	*9*	*8*	*9*	*2*	*6*	111.4
61	7	ANGUS	PB	P	BLK	18758288	KCF Bennett Absolute	8/11	72	1290	4.48	12.2	0.28	3.20	*9*	*5*	*7*	*7*	*4*	111.6
64	6	ANGUS	PB	P	BLK	18758356	Connealy Comrade 1385	9/5	72	1055	3.78	13.5	0.33	2.87	*6*	*2*	*4*	*10*	*2*	95.3
65	6	ANGUS	PB	P	BLK	18758365	Connealy Comrade 1385	8/29	70	1165	4.50	12.7	0.42	3.37	*10*	*3*	*4*	*4*	*5*	109.8
69	7	ANGUS	PB	P	BLK	18758289	KCF Bennett Absolute	9/1	76	1110	3.65	11.9	0.18	3.10	*5*	*3*	*6*	*9*	*3*	94.6
23	5	HERF	PB	P	RWF	P43768001	Churchill Red Bull 200Z	9/2	83	1395	3.96	13.3	0.26	2.60	*8*	*10*	*2*	*7*	*1*	110.5
25	5	SIM-AN	38	P	BWF	3150077	VSF United Way 68B	9/7	90	1295	4.46	13.6	0.22	2.96	*10*	*10*	*7*	*6*	*6*	118.1
26	5	SIM-AN	38	P	BWF	3283963	NB Sarge 44B	10/31	70	1070	3.55	11.7	0.41	3.11	*5*	*7*	*6*	*2*	*7*	101.2
53	5	SIM-AN	50	P	BLK	3173253	CCR Boulder 1339A	9/7	64	1190	3.65	11.4	0.42	2.68	*6*	*4*	*10*	*1*	*1*	101.0
54	5	SIM-AN	50	P	BLK	3173255	Hook's Xavier 14X	9/8	79	1185	3.38	13.9	0.31	2.84	*4*	*2*	*2*	*9*	*5*	96.4
55	5	SIM-AN	50	P	BLK	3173263	CCR Boulder 1339A	9/14	76	1170	3.34	11.9	0.38	4.36	*2*	*5*	*9*	*4*	*10*	95.9
10	5	SIMTAL	PB	P	BLK	3238509	Mr NLC Upgrade U8676	6/6	103	1850	4.92	14.1	0.12	1.90	*10*	*10*	*6*	*9*	*1*	130.0

Pol/Scu/Hor: P = Polled; S = Scurred; H = Dehorned

Color: BLK = Black; BWF = Black-White Face; RED = Red; RWF = Red-White Face; WHT = White; GRY = Gray; BRN = Brown; SMK = Smoke

%Ret. Prod. = % Retail Product; % IM Fat = % Intramuscular Fat

Bulls' ranking is in 10% groups: *10* is the top 1-10%, *9* is 11-20%, and so on; *2* is 81-90%, *1* is 91-100% (bottom 10%).

For ADG, WPDA, SC, %Ret. Prod., and %IM Fat, bulls in this test are ranked within breed; for breeds with fewer than six bulls, ranking is based on all bulls in the test.

Tag No.: **32** ANGUS (PB) Polled Black Owner: David Long
 Tattoo: 6731 Born: 09/05/16 (S) Pen 7 Kiata Farms
 Name: Kiata All In 6731 Reg. No. 18737398 - DDF, OHF 3107 Layhigh Rd.
 Sire: Deer Valley All In Hamilton, OH
 Dam's Sire: GAR Retail Product **Sale Index 81.8** 45013
Perf. Index 112.1 513-383-4077

Birth Weight	72	On Test Wt.	834	Adj. REA	13.1
Birth CE	UN	End Test Wt.	1360	Adj. REA/cwt	0.96
Dam Age	9	ADG	4.21 (113)	Frame Score	5.4
205-d Adj. Wt.	692	WPDA	3.53 (110)	Adj. 365-Day SC	35
205-d PCT	103			Adj. Rib Fat	0.40
205-d NO	17			Adj. % IM Fat	3.53 (98)
				% Retail Product	64.4 (98)
				Carcass Merit	98.3

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	0.7 (.35)	59.0 (.30)	103.0 (.22)	22.0 (.21)	10.0 (.25)	14.0 (.20)	51.80	62.23	40.28
	7	*8*	*8*	*5*	*9*	*10*	*7*	*8*	*8*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	11.6 (.08)	38.0 (.28)	.61 (.25)	.56 (.28)	-.007 (.25)		33.77	6.51	130.43
	7	*6*	*7*	*7*	*8*		*7*	*8*	*8*

Tag No.: **25** SIM-AN (38% Simm, 50% Angus, 12% CS) Polled Black-WF Owner: Joe Neal
 Tattoo: 82BD Born: 09/07/16 (S) Pen 5 Neal Brothers Simmentals
 Name: SVFM Hoovers Way Reg. No. 3150077 Bicknell, IN
 Sire: VSF United Way 68B 47512
 Dam's Sire: Hoover Dam **Sale Index 81.0** 812-881-9381
Perf. Index 118.1

Birth Weight	90	On Test Wt.	738	Adj. REA	13.6
Birth CE	UN	End Test Wt.	1295	Adj. REA/cwt	0.96
Dam Age	2	ADG	4.46 (125)	Frame Score	6.2
205-d Adj. Wt.	701	WPDA	3.38 (107)	Adj. 365-Day SC	35
205-d PCT	100			Adj. Rib Fat	0.22
205-d NO	NC			Adj. % IM Fat	2.96 (94)
				% Retail Product	66.4 (101)
				Carcass Merit	97.4

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	API	TI
	1.1 (.34)	77.6 (.17)	129.2 (.16)	21.6 (.12)	10.3 (.17)	8.3 (.12)		147.8	87.3
	4	*10*	*10*	*6*	*5*	*7*		*9*	*10*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat	Yield Grade			
	11.6 (.08)	48.7 (.16)	.67 (.18)	.78 (.17)	-.009 (.16)	-.12 (.14)			
	7	*10*	*10*	*7*	*3*	*3*			

Tag No.: **23** HERF (PB) Polled Red-WF Owner: Brent Stuckey
 Tattoo: D17 Born: 09/02/16 (S) Pen 5 Stuckey Polled Herefords
 Name: Stuckey Red Bull 200Z D17 Reg. No. P43768001 Vincennes, IN
 Sire: Churchill Red Bull 200Z 47591
 Dam's Sire: GMF Boomers Pride M218 **Sale Index 80.3** 812-887-4946
Perf. Index 110.5

Birth Weight	83	On Test Wt.	900	Adj. REA	13.3
Birth CE	UN	End Test Wt.	1395	Adj. REA/cwt	1.00
Dam Age	9	ADG	3.96 (109)	Frame Score	5.9
205-d Adj. Wt.	703	WPDA	3.60 (113)	Adj. 365-Day SC	30
205-d PCT	122			Adj. Rib Fat	0.26
205-d NO	15			Adj. % IM Fat	2.60 (76)
				% Retail Product	66.3 (101)
				Carcass Merit	88.5

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	BMI\$	CEZ\$
	2.6 (.38)	63.0 (.30)	109.0 (P+)	29.0 (.16)	3.1 (.15)	4.0 (.13)		22.0	18.0
	7	*10*	*10*	*9*	*8*	*10*		*9*	*9*
	Carcass Wt	Marbling	Ribeye Area	Fat			BII\$	CHB\$	
	77.0 (P+)	.16 (P+)	.70 (P+)	-.009 (P+)			17.0	35.0	
	10	*8*	*10*	*8*			*8*	*10*	

Tag No.: **14** ANGUS (PB)
 Tattoo: D10 Born: 08/14/16 (S) Pen 8
 Name: KCC Recharge D10 Reg. No. 18747735
 Sire: *verified* SAV Recharge 3436
 Dam's Sire: Connealy Confidence 0100

Owner: Scott & Heather Koors
 Polled Black Koors Cattle Co.
 4754 E 640 N
 Greensburg, IN
 47240
 812-662-4336

Sale Index 77.8
 Perf. Index 104.6

Birth Weight	80	On Test Wt.	824	Adj. REA	11.0
Birth CE	UN	End Test Wt.	1320	Adj. REA/cwt	0.83
Dam Age	4	ADG	3.97 (107)	Frame Score	4.8
205-d Adj. Wt.	694	WPDA	3.24 (101)	Adj. 365-Day SC	34
205-d PCT	104			Adj. Rib Fat	0.20
205-d NO	22			Adj. % IM Fat	4.03 (112)
				% Retail Product	64.1 (98)
				Carcass Merit	105.0

Genomic EPDs:	Birth Wt -0.5 (.54) *9*	Wean Wt 65.0 (.47) *10*	Year Wt 118.0 (.42) *10*	Mat Milk 31.0 (.29) *10*	Direct CE 12.0 (.35) *10*	Mat CE 12.0 (.28) *10*	\$ Indexes:	\$W 73.66 *10*	\$F 72.01 *9*	\$G 24.60 *3*
	Docility 16.0 (.36) *6*	Carcass Wt 49.0 (.40) *9*	Marbling .19 (.37) *2*	Ribeye Area .74 (.37) *9*	Fat -.030 (.34) *10*			\$QG 15.64 *1*	\$YG 8.96 *10*	\$B 124.95 *7*

Tag No.: **16** ANGUS (PB)
 Tattoo: D001 Born: 09/15/16 (S) Pen 7
 Name: ORF Rock Ridge Reg. No. 18668053 - DDC
 Sire: *verified* SAV Resource 1441
 Dam's Sire: Sitz Upward 307R

Owner: Reuben Stence
 Polled Black Oval Ridge Farm
 9397 N. Grandturn Rd.
 Marshall, IL
 62441
 618-214-9759

Sale Index 76.5
 Perf. Index 127.3

Birth Weight	82	On Test Wt.	782	Adj. REA	16.1
Birth CE	UN	End Test Wt.	1405	Adj. REA/cwt	1.02
Dam Age	3	ADG	4.98 (134)	Frame Score	4.8
205-d Adj. Wt.	776	WPDA	3.75 (117)	Adj. 365-Day SC	33
205-d PCT	100			Adj. Rib Fat	0.35
205-d NO	NC			Adj. % IM Fat	3.09 (86)
				% Retail Product	66.9 (102)
				Carcass Merit	94.1

Genomic EPDs:	Birth Wt 4.3 (.49) *1*	Wean Wt 83.0 (.43) *10*	Year Wt 147.0 (.39) *10*	Mat Milk 21.0 (.32) *4*	Direct CE 0.0 (.34) *2*	Mat CE 7.0 (.31) *4*	\$ Indexes:	\$W 72.48 *10*	\$F 120.28 *10*	\$G 31.24 *5*
	Docility 22.0 (.36) *9*	Carcass Wt 68.0 (.38) *10*	Marbling .42 (.35) *4*	Ribeye Area .88 (.35) *10*	Fat -.004 (.31) *8*			\$QG 26.55 *5*	\$YG 4.69 *6*	\$B 171.94 *10*

Tag No.: **38** ANGUS (PB)
 Tattoo: 573 Born: 09/18/16 (S) Pen 7
 Name: RVN Pendleton 35-573 Reg. No. 18600437
 Sire: *verified* MW Pendleton 35
 Dam's Sire: SydGen Mandate 6079

Owner: James Cunningham
 Polled Black The Raven
 1748 Preston St.
 Marshall, IL
 62441
 217-822-2030

Sale Index 74.8
 Perf. Index 119.5

Birth Weight	82	On Test Wt.	776	Adj. REA	13.5
Birth CE	UN	End Test Wt.	1350	Adj. REA/cwt	0.89
Dam Age	4	ADG	4.59 (123)	Frame Score	5.6
205-d Adj. Wt.	781	WPDA	3.63 (113)	Adj. 365-Day SC	35
205-d PCT	107			Adj. Rib Fat	0.24
205-d NO	4			Adj. % IM Fat	3.02 (84)
				% Retail Product	65.3 (100)
				Carcass Merit	91.9

Genomic EPDs:	Birth Wt 3.3 (.52) *2*	Wean Wt 76.0 (.45) *10*	Year Wt 132.0 (.36) *10*	Mat Milk 25.0 (.29) *7*	Direct CE 2.0 (.33) *3*	Mat CE 8.0 (.27) *5*	\$ Indexes:	\$W 74.15 *10*	\$F 98.86 *10*	\$G 26.07 *3*
	Docility 9.0 (.33) *3*	Carcass Wt 66.0 (.40) *10*	Marbling .30 (.36) *3*	Ribeye Area .78 (.36) *10*	Fat -.015 (.33) *9*			\$QG 21.14 *3*	\$YG 4.93 *6*	\$B 162.29 *10*

Tag No.: **61** ANGUS (PB) Polled Black Owner: David Powell
 Tattoo: D1 Born: 08/11/16 (S) Pen 7 Powell Farms
 Name: Powcow Absolute D1 Reg. No. 18758288 - DDF 3534 West Terre Haute Road
 Sire: *verified* KCF Bennett Absolute 47471 Worthington, IN
 Dam's Sire: HA Program 5652 **Sale Index 74.3** 812-384-5689
Perf. Index 111.6

Birth Weight	72	On Test Wt.	730	Adj. REA	12.2
Birth CE	UN	End Test Wt.	1290	Adj. REA/cwt	1.03
Dam Age	5	ADG	4.48 (120)	Frame Score	4.4
205-d Adj. Wt.	469	WPDA	3.15 (98)	Adj. 365-Day SC	34
205-d PCT	93			Adj. Rib Fat	0.28
205-d NO	9			Adj. % IM Fat	3.20 (89)
				% Retail Product	65.9 (101)
				Carcass Merit	94.9

Genomic EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	2.7 (.53)	67.0 (.46)	115.0 (.39)	18.0 (.34)	8.0 (.36)	9.0 (.32)	56.46	89.31	48.26
	3	*10*	*10*	*2*	*7*	*7*	*8*	*10*	*10*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	19.0 (.37)	48.0 (.43)	.90 (.39)	.61 (.39)	-.015 (.37)		42.10	6.16	170.29
	8	*9*	*9*	*8*	*9*		*10*	*8*	*10*

Tag No.: **10** SIMTAL (PB) Polled Black Owner: Ben Ison
 Tattoo: D154 Born: 06/06/16 (S) Pen 5 B&K Cattle
 Name: Mr Picabo D154 Reg. No. 3238509 10601 US Hwy 8 W
 Sire: Mr NLC Upgrade U8676 Crandon, WI
 Dam's Sire: SAS/ASF All Star **Sale Index 72.5** 54520
Perf. Index 130.0 715-216-0394

Birth Weight	103	On Test Wt.	1235	Adj. REA	14.1
Birth CE	UN	End Test Wt.	1850	Adj. REA/cwt	0.93
Dam Age	9	ADG	4.92 (135)	Frame Score	5.7
205-d Adj. Wt.	721	WPDA	3.89 (122)	Adj. 365-Day SC	33
205-d PCT	100			Adj. Rib Fat	0.12
205-d NO	NC			Adj. % IM Fat	1.90 (55)
				% Retail Product	67.3 (103)
				Carcass Merit	79.0

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	2.4 (.22)	72.2 (.19)	105.1 (.19)	21.4 (.19)	6.7 (.19)	5.8 (.19)			
	4	*9*	*9*	*6*	*3*	*2*			
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat	Yield Grade	API	TI	
	11.5 (.17)	35.6 (.16)	.20 (.22)	.90 (.22)	-.067 (.22)	-.35 (.18)	113.3	74.9	
	7	*9*	*7*	*8*	*8*	*7*	*4*	*9*	

Tag No.: **28** ANGUS (PB) Polled Black Owner: Robert C. Winter
 Tattoo: D607 Born: 05/08/16 (S) Pen 8 Cedar Hill Land & Cattle Co.
 Name: CHLC Tour of Duty D607 Reg. No. 18880457 11115 Lanc-Circleville Rd.
 Sire: RB Tour of Duty 177 Amanda, OH
 Dam's Sire: SAV 8180 Traveler 004 **Sale Index 72.3** 43102
Perf. Index 111.7 614-332-2110

Birth Weight	78	On Test Wt.	1310	Adj. REA	11.2
Birth CE	UN	End Test Wt.	1825	Adj. REA/cwt	0.79
Dam Age	10	ADG	4.12 (111)	Frame Score	6.2
205-d Adj. Wt.	752	WPDA	3.61 (113)	Adj. 365-Day SC	35
205-d PCT	91			Adj. Rib Fat	0.26
205-d NO	2			Adj. % IM Fat	5.38 (150)
				% Retail Product	63.1 (97)
				Carcass Merit	123.0

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	3.2 (.29)	51.0 (.26)	96.0 (.26)	26.0 (.18)	4.0 (.23)	9.0 (.17)	40.54	45.66	30.34
	2	*6*	*7*	*8*	*4*	*7*	*4*	*6*	*5*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	13.0 (.05)	41.0 (.24)	.38 (.22)	.50 (.24)	-.010 (.21)		24.76	5.58	115.39
	5	*7*	*4*	*6*	*9*		*4*	*7*	*6*

Tag No.: **51** ANGUS (PB) Polled Black Owner: Carol Bennett
 Tattoo: B29 Born: 08/28/16 (S) Pen 8 Bennett Angus
 Name: Bennett Southern Man Reg. No. 18696035 6 Hall Rd.
 Sire: KCF Bennett Southside Eddyville, IL
 Dam's Sire: SAV Beacon 0008 Sale Index 70.8
 Perf. Index 107.1 62928
 618-759-1046

Birth Weight	78	On Test Wt.	878	Adj. REA	12.7
Birth CE	UN	End Test Wt.	1370	Adj. REA/cwt	0.97
Dam Age	3	ADG	3.94 (106)	Frame Score	5.2
205-d Adj. Wt.	675	WPDA	3.49 (109)	Adj. 365-Day SC	36
205-d PCT	105			Adj. Rib Fat	0.34
205-d NO	28			Adj. % IM Fat	3.14 (87)
				% Retail Product	65.0 (99)
				Carcass Merit	93.3

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	2.1 (.34)	69.0 (.29)	123.0 (.21)	27.0 (.15)	7.0 (.23)	12.0 (.14)	60.04	92.52	35.63
	4	*10*	*10*	*8*	*6*	*10*	*9*	*10*	*7*

Docility	Carcass Wt	Marbling	Ribeye Area	Fat	\$QG	\$YG	\$B
	64.0 (.23)	.63 (.20)	.61 (.23)	.002 (.20)	34.45	1.18	172.85
	10	*7*	*8*	*7*	*8*	*3*	*10*

Tag No.: **65** ANGUS (PB) Polled Black Owner: David Powell
 Tattoo: D15 Born: 08/29/16 (S) Pen 6 Powell Farms
 Name: Powcow Comrade D15 Reg. No. 18758365 3534 West Terre Haute Road
 Sire: *verified* Connealy Comrade 1385 Worthington, IN
 Dam's Sire: Stenberg Coalition 509 Sale Index 69.5
 Perf. Index 109.8 47471
 812-384-5689

Birth Weight	70	On Test Wt.	602	Adj. REA	12.7
Birth CE	UN	End Test Wt.	1165	Adj. REA/cwt	1.04
Dam Age	2	ADG	4.50 (121)	Frame Score	3.9
205-d Adj. Wt.	496	WPDA	2.97 (93)	Adj. 365-Day SC	32
205-d PCT	96			Adj. Rib Fat	0.42
205-d NO	6			Adj. % IM Fat	3.37 (94)
				% Retail Product	64.9 (99)
				Carcass Merit	96.4

Genomic EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	-4.2 (.53)	43.0 (.47)	83.0 (.39)	24.0 (.32)	17.0 (.36)	10.0 (.31)	51.69	52.38	25.62
	10	*3*	*4*	*6*	*10*	*8*	*7*	*7*	*3*

Docility	Carcass Wt	Marbling	Ribeye Area	Fat	\$QG	\$YG	\$B
38.0 (.36)	22.0 (.42)	.38 (.38)	.38 (.38)	.048 (.36)	24.76	0.86	92.84
10	*2*	*4*	*4*	*1*	*4*	*3*	*3*

Tag No.: **30** ANGUS (PB) Polled Black Owner: David Long
 Tattoo: 6805 Born: 08/14/16 (S) Pen 8 Kiata Farms
 Name: Kiata All In 6805 Reg. No. 18737397 - DDF 3107 Layhigh Rd.
 Sire: Deer Valley All In Hamilton, OH
 Dam's Sire: CRA Bextor 872 5205 608 Sale Index 69.5
 Perf. Index 100.8 45013
 513-383-4077

Birth Weight	68	On Test Wt.	872	Adj. REA	12.7
Birth CE	UN	End Test Wt.	1335	Adj. REA/cwt	0.98
Dam Age	8	ADG	3.70 (100)	Frame Score	5.9
205-d Adj. Wt.	708	WPDA	3.28 (103)	Adj. 365-Day SC	41
205-d PCT	106			Adj. Rib Fat	0.17
205-d NO	17			Adj. % IM Fat	3.06 (85)
				% Retail Product	66.7 (102)
				Carcass Merit	93.5

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	-0.4 (.36)	61.0 (.31)	106.0 (.24)	24.0 (.21)	13.0 (.25)	15.0 (.20)	57.33	66.33	39.30
	9	*9*	*9*	*6*	*10*	*10*	*9*	*9*	*8*

Docility	Carcass Wt	Marbling	Ribeye Area	Fat	\$QG	\$YG	\$B
	39.0 (.28)	.46 (.25)	.74 (.28)	-.036 (.25)	28.21	11.09	132.13
	7	*5*	*9*	*10*	*5*	*10*	*8*

Tag No.: **41** ANGUS (PB) Polled Black Owner: Dennis Dolph
 Tattoo: 3742 Born: 06/07/16 (S) Pen 8 Dolph Angus
 Name: Dolph Tour Corks 276 Reg. No. 18819048 69130 Willow Road
 Sire: *verified* RB Tour of Duty 177 Walkerton, IN
 Dam's Sire: PA Safeguard 021 46574
 574-274-8941

Sale Index 69.0
 Perf. Index 127.1

Birth Weight	75	On Test Wt.	996	Adj. REA	12.1
Birth CE	UN	End Test Wt.	1645	Adj. REA/cwt	0.82
Dam Age	3	ADG	5.19 (140)	Frame Score	5.7
205-d Adj. Wt.	645	WPDA	3.46 (108)	Adj. 365-Day SC	33
205-d PCT	100			Adj. Rib Fat	0.19
205-d NO	NC			Adj. % IM Fat	3.83 (106)
				% Retail Product	64.4 (98)
				Carcass Merit	102.5

Genomic EPDs:	Birth Wt 0.4 (.44) *8*	Wean Wt 40.0 (.39) *2*	Year Wt 69.0 (.35) *2*	Mat Milk 29.0 (.28) *9*	Direct CE 8.0 (.32) *7*	Mat CE 3.0 (.27) *1*	\$ Indexes:	\$W 47.89 *6*	\$F 10.40 *2*	\$G 22.65 *2*
	Docility 18.0 (.33) *7*	Carcass Wt 27.0 (.37) *3*	Marbling .12 (.34) *1*	Ribeye Area .58 (.34) *8*	Fat -.029 (.30) *10*			\$QG 11.99 *1*	\$YG 10.66 *10*	\$B 77.29 *2*

Tag No.: **60** ANGUS (PB) Polled Black Owner: Delmar Kemp
 Tattoo: 35 Born: 08/29/16 (S) Pen 7 Kemp Family Angus
 Name: KF Boyd Reg. No. 18772921 7313 W 1050 S
 Sire: WayView Rocky Top 010-264 Milroy, IN
 Dam's Sire: Dalebanks Extender 6012 46156
 765-525-9377

Sale Index 69.0
 Perf. Index 111.4

Birth Weight	77	On Test Wt.	846	Adj. REA	12.7
Birth CE	UN	End Test Wt.	1370	Adj. REA/cwt	0.98
Dam Age	9	ADG	4.19 (113)	Frame Score	6.0
205-d Adj. Wt.	627	WPDA	3.49 (109)	Adj. 365-Day SC	35
205-d PCT	100			Adj. Rib Fat	0.49
205-d NO	NC			Adj. % IM Fat	3.55 (99)
				% Retail Product	63.6 (97)
				Carcass Merit	97.9

EPDs:	Birth Wt 2.3 (.05) *4*	Wean Wt 52.0 (.05) *6*	Year Wt 88.0 (.05) *5*	Mat Milk 25.0 (.05) *7*	Direct CE 4.0 (.05) *4*	Mat CE 6.0 (.05) *3*	\$ Indexes:	\$W 53.62 *8*	\$F 41.45 *5*	\$G 34.69 *6*
	Docility 5.0 (.05) *2*	Carcass Wt 29.0 (.05) *4*	Marbling .53 (.05) *6*	Ribeye Area .37 (.05) *4*	Fat .012 (.05) *5*			\$QG 30.98 *6*	\$YG 3.71 *5*	\$B 103.69 *5*

Tag No.: **4** ANGUS (PB) Polled Black Owner: John Hanlin
 Tattoo: 658 Born: 09/26/16 (S) Pen 8 Hanlin Farms
 Name: Hanlin Denver 658 Reg. No. 18658885 9089 W. Balbec Road
 Sire: EXAR Denver 2002B Pennville, IN
 Dam's Sire: SAV First Class 0207 47369
 260-726-5857

Sale Index 68.3
 Perf. Index 107.3

Birth Weight	86	On Test Wt.	916	Adj. REA	13.9
Birth CE	UN	End Test Wt.	1380	Adj. REA/cwt	0.93
Dam Age	5	ADG	3.71 (100)	Frame Score	7.2
205-d Adj. Wt.	908	WPDA	3.79 (119)	Adj. 365-Day SC	34
205-d PCT	110			Adj. Rib Fat	0.48
205-d NO	9			Adj. % IM Fat	3.62 (101)
				% Retail Product	63.5 (97)
				Carcass Merit	98.9

EPDs:	Birth Wt 3.9 (.33) *1*	Wean Wt 63.0 (.29) *9*	Year Wt 111.0 (.22) *9*	Mat Milk 30.0 (.20) *10*	Direct CE 5.0 (.23) *5*	Mat CE 10.0 (.19) *8*	\$ Indexes:	\$W 52.84 *8*	\$F 74.18 *9*	\$G 33.60 *6*
	Docility 41.0 (.23) *7*	Carcass Wt .56 (.20) *6*	Marbling .42 (.23) *5*	Ribeye Area .016 (.20) *5*	Fat .016 (.20) *5*			\$QG 32.01 *7*	\$YG 1.59 *3*	\$B 131.90 *8*

Tag No.: **1** ANGUS (PB) Polled Black Owner: Aaron Cain
 Tattoo: 6973 Born: 08/07/16 (ET) Pen 8 Cain's Ranch
 Name: CAIN Ten Speed 6973 Reg. No. 18765838 2926 N 350 W
 Sire: SAV Ten Speed 3022 Anderson, IN
 Dam's Sire: SAV Net Worth 4200 46011
 765-617-8989

Sale Index 67.5
 Perf. Index 107.1

Birth Weight	85	On Test Wt.	978	Adj. REA	14.6
Birth CE	UN	End Test Wt.	1465	Adj. REA/cwt	1.06
Dam Age	6	ADG	3.90 (105)	Frame Score	5.5
205-d Adj. Wt.	748	WPDA	3.54 (111)	Adj. 365-Day SC	32
205-d PCT	100			Adj. Rib Fat	0.28
205-d NO	NC			Adj. % IM Fat	2.98 (83)
				% Retail Product	67.4 (103)
				Carcass Merit	92.9

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	2.7 (.05)	67.0 (.05)	120.0 (.05)	21.0 (.05)	3.0 (.05)	7.0 (.05)	57.42	86.67	32.98
	3	*10*	*10*	*4*	*3*	*4*	*9*	*10*	*6*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	3.0 (.05)	59.0 (.05)	.44 (.05)	.86 (.05)	.001 (.05)		27.38	5.60	161.26
	2	*10*	*5*	*10*	*7*		*5*	*7*	*10*

Tag No.: **46** ANGUS (PB) Polled Black Owner: Donald Jay Snider
 Tattoo: 0116 Born: 10/11/16 (S) Pen 7 Snider-Clayton Farm
 Name: SC Tour of Duty 0116 Reg. No. 18772119 20879 CR 142
 Sire: RB Tour of Duty 177 Goshen, IN
 Dam's Sire: Hoover Dam 46526
 574-831-4634

Sale Index 67.5
 Perf. Index 105.0

Birth Weight	80	On Test Wt.	758	Adj. REA	13.4
Birth CE	UN	End Test Wt.	1230	Adj. REA/cwt	1.07
Dam Age	3	ADG	3.78 (102)	Frame Score	5.8
205-d Adj. Wt.	652	WPDA	3.52 (110)	Adj. 365-Day SC	34
205-d PCT	96			Adj. Rib Fat	0.34
205-d NO	4			Adj. % IM Fat	2.98 (83)
				% Retail Product	66.2 (101)
				Carcass Merit	92.0

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	1.0 (.30)	58.0 (.27)	101.0 (.22)	29.0 (.17)	6.0 (.25)	9.0 (.18)	57.60	59.27	37.67
	7	*8*	*8*	*9*	*6*	*7*	*9*	*8*	*7*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	50.0 (.24)	.46 (.21)	.82 (.24)	-.028 (.20)			28.21	9.46	148.63
	9	*5*	*10*	*10*			*5*	*10*	*9*

Tag No.: **58** ANGUS (PB) Polled Black Owner: Austin Keene
 Tattoo: K160 Born: 08/01/16 (S) Pen 8 Keene Farms
 Name: KF Stetson 160 Reg. No. 18583506 3385 Hwy. 34 S.
 Sire: EXAR Stetson 3704B Harrisburg, IL
 Dam's Sire: SS Objective T510 OT26 62946
 276-971-6773

Sale Index 65.8
 Perf. Index 97.5

Birth Weight	68	On Test Wt.	980	Adj. REA	11.4
Birth CE	UN	End Test Wt.	1410	Adj. REA/cwt	0.90
Dam Age	6	ADG	3.44 (92)	Frame Score	5.2
205-d Adj. Wt.	714	WPDA	3.36 (105)	Adj. 365-Day SC	33
205-d PCT	115			Adj. Rib Fat	0.28
205-d NO	7			Adj. % IM Fat	4.32 (120)
				% Retail Product	64.3 (98)
				Carcass Merit	109.2

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	-0.4 (.32)	64.0 (.28)	111.0 (.21)	29.0 (.13)	15.0 (.23)	14.0 (.12)	68.38	63.37	43.82
	9	*9*	*9*	*9*	*10*	*10*	*10*	*8*	*9*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	23.0 (.05)	31.0 (.05)	.79 (.05)	.47 (.05)	.012 (.05)		39.17	4.65	112.19
	9	*4*	*9*	*6*	*5*		*9*	*6*	*6*

Tag No.: **47** ANGUS (PB) Polled Black Owner: James W. Hall
 Tattoo: H485 Born: 09/07/16 (S) Pen 8 Halls Angus
 Name: Hall's Southside 485 Reg. No. 18695802 7 Hall Road
 Sire: KCF Bennett Southside Eddyville, IL
 Dam's Sire: Coleman Regis 904 62928
 618-672-4603

Sale Index 65.3
 Perf. Index 101.1

Birth Weight	88	On Test Wt.	852	Adj. REA	12.4
Birth CE	UN	End Test Wt.	1305	Adj. REA/cwt	0.99
Dam Age	5	ADG	3.62 (97)	Frame Score	5.5
205-d Adj. Wt.	667	WPDA	3.41 (107)	Adj. 365-Day SC	37
205-d PCT	104			Adj. Rib Fat	0.30
205-d NO	28			Adj. % IM Fat	2.66 (74)
				% Retail Product	65.5 (100)
				Carcass Merit	87.0

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	2.2 (.36)	66.0 (.31)	116.0 (.21)	25.0 (.18)	9.0 (.24)	13.0 (.16)	56.29	81.39	34.62
	4	*10*	*10*	*7*	*8*	*10*	*8*	*10*	*6*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	12.0 (.05)	47.0 (.05)	.40 (.05)	.58 (.05)	.035 (.05)		25.58	0.20	126.16
	4	*9*	*4*	*8*	*2*		*4*	*2*	*7*

Tag No.: **12** ANGUS (PB) Polled Black Owner: Ted and Kathy Willer
 Tattoo: 666 Born: 09/14/16 (S) Pen 6 Willer Timber Ridge
 Name: WTR 924 Traction 666 Reg. No. 18792572 4342 S 300 E
 Sire: JMB Traction 292 Greencastle, IN
 Dam's Sire: WAR Alliance 9126 6006 46135
 765-653-2364

Sale Index 61.3
 Perf. Index 102.3

Birth Weight	80	On Test Wt.	704	Adj. REA	14.2
Birth CE	UN	End Test Wt.	1190	Adj. REA/cwt	1.18
Dam Age	7	ADG	3.89 (105)	Frame Score	4.9
205-d Adj. Wt.	580	WPDA	3.16 (99)	Adj. 365-Day SC	36
205-d PCT	88			Adj. Rib Fat	0.42
205-d NO	3			Adj. % IM Fat	3.31 (92)
				% Retail Product	66.9 (102)
				Carcass Merit	97.1

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	1.5 (.34)	51.0 (.30)	93.0 (.24)	32.0 (.20)	5.0 (.24)	9.0 (.19)	53.52	45.55	25.78
	5	*6*	*7*	*10*	*5*	*7*	*8*	*6*	*3*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat		\$QG	\$YG	\$B
	12.0 (.05)	47.0 (.05)	.40 (.05)	.58 (.05)	.035 (.05)		25.58	0.20	126.16
	4	*9*	*4*	*8*	*2*		*4*	*2*	*7*

Tag No.: **26** SIM-AN (38% Simmental, 62% Angus) Polled Black-WF Owner: Joe Neal
 Tattoo: 57D Born: 10/31/16 (S) Pen 5 Neal Brothers Simmentals
 Name: NB Mr 57D Reg. No. 3283963 4812 N. Neal Rd.
 Sire: NB Sarge 44B Bicknell, IN
 Dam's Sire: Mytty In Focus 47512
 812-881-9381

Sale Index 60.3
 Perf. Index 101.2

Birth Weight	70	On Test Wt.	626	Adj. REA	11.7
Birth CE	UN	End Test Wt.	1070	Adj. REA/cwt	0.97
Dam Age	9	ADG	3.55 (100)	Frame Score	5.3
205-d Adj. Wt.	634	WPDA	3.25 (103)	Adj. 365-Day SC	34
205-d PCT	100			Adj. Rib Fat	0.41
205-d NO	5			Adj. % IM Fat	3.11 (99)
				% Retail Product	63.9 (97)
				Carcass Merit	97.8

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G
	-1.1 (.29)	60.0 (.25)	101.9 (.11)	22.9 (.11)	12.5 (.12)	8.1 (.10)	53.52	45.55	25.78
	8	*6*	*8*	*7*	*7*	*6*	*8*	*6*	*3*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat	Yield Grade	API	TI	
	11.7 (.09)	29.6 (.13)	.54 (.16)	.40 (.15)	-.007 (.16)	-.07 (.13)	129.9	73.0	
	7	*7*	*9*	*2*	*3*	*2*	*7*	*7*	

Tag No.:	9		ANGUS (PB)		Polled Black		Owner: Andy Strasburg			
Tattoo:	9186	Born:	09/18/16	(S)	Pen	7	Strasburg Angus			
Name:	S/A Advisor 1010-9186		Reg. No.		18772616		5544 Langer Rd.			
Sire:	Hoover Advisor						Marshall, WI			
Dam's Sire:	CRA Bextor 872 5205 608						53559			
							608-444-2637			
							Sale Index 60.0			
							Perf. Index 103.5			
Birth Weight	83	On Test Wt.	742		Adj. REA	12.1				
Birth CE	UN	End Test Wt.	1225		Adj. REA/cwt	0.95				
Dam Age	6	ADG	3.86 (104)	Frame Score	5.1	Adj. Rib Fat	0.45			
205-d Adj. Wt.	651	WPDA	3.29 (103)	Adj. 365-Day SC	33	Adj. % IM Fat	3.18	(88)		
205-d PCT	96					% Retail Product	63.4	(97)		
205-d NO	2					Carcass Merit	92.7			
EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G	
	2.0 (.27)	51.0 (.22)	84.0 (.15)	23.0 (.12)	6.0 (.17)	8.0 (.10)	48.22	37.21	36.25	
	4	*6*	*5*	*5*	*6*	*5*	*6*	*5*	*7*	
							\$ Indexes:	\$QG	\$YG	\$B
Docility	Carcass Wt	Marbling	Ribeye Area	Fat				30.18	6.07	106.27
	29.0 (.20)	.51 (.16)	.64 (.19)	.022 (.16)			*6*	*8*	*5*	
	4	*6*	*8*	*4*						

Tag No.:	5		ANGUS (PB)		Polled Black		Owner: John Hanlin			
Tattoo:	657	Born:	09/19/16	(S)	Pen	8	Hanlin Farms			
Name:	Hanlin X Factor 657		Reg. No.		18658884		9089 W. Balbec Road			
Sire:	Car Don X Factor 836						Pennville, IN			
Dam's Sire:	SAV Mandan 7759						47369			
							260-726-5857			
							Sale Index 59.3			
							Perf. Index 94.7			
Birth Weight	76	On Test Wt.	912		Adj. REA	13.7				
Birth CE	UN	End Test Wt.	1305		Adj. REA/cwt	0.99				
Dam Age	4	ADG	3.14 (85)	Frame Score	6.3	Adj. Rib Fat	0.38			
205-d Adj. Wt.	877	WPDA	3.52 (110)	Adj. 365-Day SC	38	Adj. % IM Fat	3.88	(108)		
205-d PCT	106					% Retail Product	65.2	(100)		
205-d NO	9					Carcass Merit	103.8			
EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G	
	1.5 (.30)	62.0 (.24)	109.0 (.13)	30.0 (.10)	8.0 (.16)	12.0 (.08)	60.32	71.17	31.68	
	5	*9*	*9*	*10*	*7*	*10*	*9*	*9*	*5*	
							\$ Indexes:	\$QG	\$YG	\$B
Docility	Carcass Wt	Marbling	Ribeye Area	Fat				30.98	0.70	136.51
	45.0 (.19)	.53 (.14)	.56 (.18)	.032 (.16)			*6*	*3*	*9*	
	8	*6*	*7*	*3*						

Tag No.:	49		ANGUS (PB)		Polled Black		Owner: James W. Hall			
Tattoo:	H487	Born:	09/10/16	(S)	Pen	7	Halls Angus			
Name:	Hall's Accelerate 487		Reg. No.		18748645		7 Hall Road			
Sire:	Rathbun Accelerate Z523						Eddyville, IL			
Dam's Sire:	Thomas Top Hand 0536						62928			
							618-672-4603			
							Sale Index 58.8			
							Perf. Index 95.0			
Birth Weight	82	On Test Wt.	720		Adj. REA	13.7				
Birth CE	UN	End Test Wt.	1160		Adj. REA/cwt	1.16				
Dam Age	3	ADG	3.52 (95)	Frame Score	4.9	Adj. Rib Fat	0.44			
205-d Adj. Wt.	618	WPDA	3.05 (95)	Adj. 365-Day SC	33	Adj. % IM Fat	3.78	(105)		
205-d PCT	96					% Retail Product	66.2	(101)		
205-d NO	28					Carcass Merit	103.1			
EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$W	\$F	\$G	
	1.7 (.35)	59.0 (.30)	105.0 (.20)	25.0 (.12)	8.0 (.23)	12.0 (.12)	52.03	65.91	35.76	
	5	*8*	*9*	*7*	*7*	*10*	*7*	*9*	*7*	
							\$ Indexes:	\$QG	\$YG	\$B
Docility	Carcass Wt	Marbling	Ribeye Area	Fat				30.98	4.78	120.87
	35.0 (.23)	.53 (.20)	.69 (.23)	.029 (.20)			*6*	*6*	*7*	
	6	*6*	*9*	*3*						

Tag No.: **53** SIM-AN (50% Simmental, 50% Angus) Polled Black Owner: Tom Saxe
 Tattoo: D614 Born: 09/07/16 (S) Pen 5 Saxe Farm
 Name: SF Boulder Answer D614 Reg. No. 3173253 Thompsonville, IL
 Sire: CCR Boulder 1339A 62890
 Dam's Sire: GCCR Easy Answer Y108 **Sale Index 58.0** 618-627-2243
Perf. Index 101.0

Birth Weight	64	On Test Wt.	734	Adj. REA	11.4
Birth CE	UN	End Test Wt.	1190	Adj. REA/cwt	0.92
Dam Age	2	ADG	3.65 (103)	Frame Score	4.6
205-d Adj. Wt.	655	WPDA	3.11 (99)	Adj. 365-Day SC	36
205-d PCT	107			Adj. Rib Fat	0.42
205-d NO	5			Adj. % IM Fat	2.68 (85)
				% Retail Product	63.1 (96)
				Carcass Merit	90.4

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:		
	-2.3 (.35) *10*	65.2 (.31) *7*	102.8 (.20) *8*	25.8 (.13) *9*	16.8 (.20) *10*	10.7 (.12) *9*			
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat	Yield Grade		API	TI
	12.1 (.09) *8*	27.8 (.20) *6*	.63 (.20) *10*	.80 (.18) *8*	-.005 (.19) *2*	-.20 (.16) *5*		164.7 *10*	83.9 *10*

Tag No.: **45** ANGUS (PB) Polled Black Owner: Mark E. Underwood
 Tattoo: 652 Born: 10/31/16 (S) Pen 6 Underwood Angus Farms
 Name: Underwood 652 of 5050 Reg. No. 18822479 13067 N 500 E
 Sire: Kiata New Design 3860 North Manchester, IN
 Dam's Sire: Double O In Focus U56 **Sale Index 57.5** 46962
Perf. Index 97.9 260-578-6656

Birth Weight	59	On Test Wt.	698	Adj. REA	12.8
Birth CE	UN	End Test Wt.	1125	Adj. REA/cwt	0.99
Dam Age	7	ADG	3.42 (92)	Frame Score	5.7
205-d Adj. Wt.	740	WPDA	3.42 (107)	Adj. 365-Day SC	37
205-d PCT	105			Adj. Rib Fat	0.43
205-d NO	5			Adj. % IM Fat	3.57 (99)
				% Retail Product	64.4 (98)
				Carcass Merit	98.8

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	\$W	\$F	\$G
	-0.7 (.31) *9*	49.0 (.26) *5*	84.0 (.11) *5*	27.0 (.12) *8*	11.0 (.17) *9*	10.0 (.10) *8*		51.58 *7*	35.05 *4*	42.27 *9*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat			\$QG	\$YG	\$B
		26.0 (.05) *3*	.71 (.05) *8*	.38 (.05) *4*	.004 (.05) *7*			36.96 *8*	5.31 *7*	102.56 *4*

Tag No.: **64** ANGUS (PB) Polled Black Owner: David Powell
 Tattoo: D32 Born: 09/05/16 (S) Pen 6 Powell Farms
 Name: Powcow Comrade D32 Reg. No. 18758356 - OHF 3534 West Terre Haute Road
 Sire: *verified* Connealy Comrade 1385 Worthington, IN
 Dam's Sire: BAF Incentive 119Y **Sale Index 57.0** 47471
Perf. Index 95.3 812-384-5689

Birth Weight	72	On Test Wt.	582	Adj. REA	13.5
Birth CE	UN	End Test Wt.	1055	Adj. REA/cwt	1.20
Dam Age	2	ADG	3.78 (102)	Frame Score	3.6
205-d Adj. Wt.	523	WPDA	2.74 (86)	Adj. 365-Day SC	32
205-d PCT	101			Adj. Rib Fat	0.33
205-d NO	6			Adj. % IM Fat	2.87 (80)
				% Retail Product	67.5 (103)
				Carcass Merit	91.5

Genomic EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	\$W	\$F	\$G
	-1.3 (.53) *10*	46.0 (.46) *4*	81.0 (.38) *4*	17.0 (.31) *2*	12.0 (.37) *10*	9.0 (.30) *7*		48.19 *6*	33.44 *4*	25.87 *3*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat			\$QG	\$YG	\$B
	22.0 (.35) *9*	30.0 (.42) *4*	.20 (.38) *2*	.93 (.38) *10*	.017 (.35) *5*			16.14 *2*	9.73 *10*	95.84 *4*

Tag No.: **69** ANGUS (PB) Polled Black Owner: David Powell
 Tattoo: D16 Born: 09/01/16 (S) Pen 7 Powell Farms
 Name: Powcow Absolute D16 Reg. No. 18758289 - DDF 3534 West Terre Haute Road
 Sire: *verified* KCF Bennett Absolute 47471 Worthington, IN
 Dam's Sire: SydGen CC & 7 812-384-5689

Sale Index 55.0
 Perf. Index 94.6

Birth Weight	76	On Test Wt.	654	Adj. REA	11.9
Birth CE	UN	End Test Wt.	1110	Adj. REA/cwt	1.08
Dam Age	5	ADG	3.65 (98)	Frame Score	4.5
205-d Adj. Wt.	516	WPDA	2.85 (89)	Adj. 365-Day SC	34
205-d PCT	103			Adj. Rib Fat	0.18
205-d NO	9			Adj. % IM Fat	3.10 (86)
				% Retail Product	67.2 (103)
				Carcass Merit	94.5

Genomic EPDs:	Birth Wt 1.9 (.52) *4*	Wean Wt 51.0 (.46) *6*	Year Wt 87.0 (.38) *5*	Mat Milk 19.0 (.33) *2*	Direct CE 9.0 (.34) *8*	Mat CE 6.0 (.31) *3*	\$ Indexes:	\$W 44.08 *5*	\$F 49.08 *6*	\$G 27.22 *4*
	Docility 9.0 (.36) *3*	Carcass Wt 33.0 (.42) *5*	Marbling .20 (.38) *2*	Ribeye Area .77 (.38) *10*	Fat -.021 (.36) *10*			\$QG 16.14 *2*	\$YG 11.08 *10*	\$B 113.27 *6*

Tag No.: **7** ANGUS (PB) Polled Black Owner: John Hanlin
 Tattoo: 650 Born: 08/31/16 (S) Pen 8 Hanlin Farms
 Name: Hanlin Resistol 650 Reg. No. 18658880 - DDF, OHF 9089 W. Balbec Road
 Sire: EXAR Resistol 3710B 47369 Pennville, IN
 Dam's Sire: CFT El Capitan 3150 260-726-5857

Sale Index 54.8
 Perf. Index 99.1

Birth Weight	72	On Test Wt.	880	Adj. REA	14.6
Birth CE	UN	End Test Wt.	1320	Adj. REA/cwt	1.15
Dam Age	4	ADG	3.52 (95)	Frame Score	5.5
205-d Adj. Wt.	710	WPDA	3.38 (106)	Adj. 365-Day SC	40
205-d PCT	86			Adj. Rib Fat	0.23
205-d NO	9			Adj. % IM Fat	2.98 (83)
				% Retail Product	68.7 (105)
				Carcass Merit	93.9

EPDs:	Birth Wt 1.0 (.31) *7*	Wean Wt 42.0 (.26) *3*	Year Wt 84.0 (.19) *5*	Mat Milk 21.0 (.10) *4*	Direct CE 9.0 (.20) *8*	Mat CE 13.0 (.09) *10*	\$ Indexes:	\$W 31.84 *2*	\$F 39.84 *5*	\$G 38.55 *8*
	Docility	Carcass Wt 28.0 (.21) *4*	Marbling 38.0 (.18) *10*	Ribeye Area .87 (.21) *10*	Fat -.033 (.18) *10*			\$QG 24.76 *4*	\$YG 13.79 *10*	\$B 103.92 *5*

Tag No.: **54** SIM-AN (50% Simmental, 50% Angus) Polled Black Owner: Tom Saxe
 Tattoo: D616 Born: 09/08/16 (S) Pen 5 Saxe Farm
 Name: SF Xavier Answer D616 Reg. No. 3173255 20457 Neal Davis Rd.
 Sire: Hook's Xavier 14X 62890 Thompsonville, IL
 Dam's Sire: GCCR Easy Answer Y108 618-627-2243

Sale Index 53.5
 Perf. Index 96.4

Birth Weight	79	On Test Wt.	762	Adj. REA	13.9
Birth CE	UN	End Test Wt.	1185	Adj. REA/cwt	1.12
Dam Age	2	ADG	3.38 (95)	Frame Score	4.8
205-d Adj. Wt.	695	WPDA	3.10 (98)	Adj. 365-Day SC	32
205-d PCT	113			Adj. Rib Fat	0.31
205-d NO	5			Adj. % IM Fat	2.84 (90)
				% Retail Product	67.3 (102)
				Carcass Merit	96.1

EPDs:	Birth Wt 0.9 (.35) *5*	Wean Wt 82.0 (.32) *10*	Year Wt 130.7 (.21) *10*	Mat Milk 22.4 (.19) *7*	Direct CE 11.3 (.21) *6*	Mat CE 10.1 (.18) *8*	\$ Indexes:	API	TI
	Docility 9.7 (.15) *3*	Carcass Wt 48.9 (.20) *10*	Marbling .56 (.21) *9*	Ribeye Area 1.22 (.20) *10*	Fat -.015 (.21) *3*	Yield Grade -0.28 (.18) *7*		159.4 *10*	88.0 *10*

Tag No.: **55** SIM-AN (50% Simmental, 50% Angus) Polled Black Owner: Tom Saxe
 Tattoo: D624 Born: 09/14/16 (S) Pen 5 Saxe Farm
 Name: SF Boulder Line D624 Reg. No. 3173263 Thompsonville, IL
 Sire: CCR Boulder 1339A 62890
 Dam's Sire: WLA BLK TS Newline Jon **Sale Index 52.5** 618-627-2243
Perf. Index 95.9

Birth Weight	76	On Test Wt.	752	Adj. REA	11.9
Birth CE	UN	End Test Wt.	1170	Adj. REA/cwt	1.04
Dam Age	7	ADG	3.34 (94)	Frame Score	4.9
205-d Adj. Wt.	612	WPDA	3.11 (99)	Adj. 365-Day SC	35
205-d PCT	99			Adj. Rib Fat	0.38
205-d NO	10			Adj. % IM Fat	4.36 (138)
				% Retail Product	64.9 (99)
				Carcass Merit	118.4

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:		
	-3.4 (.36)	54.4 (.32)	88.8 (.21)	29.3 (.14)	16.5 (.21)	9.7 (.13)			
	10	*3*	*5*	*10*	*10*	*8*			
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat	Yield Grade		API	TI
	13.4 (.08)	18.2 (.20)	.58 (.20)	.82 (.18)	-.014 (.20)	-.27 (.17)		158.3	78.3
	9	*3*	*9*	*8*	*3*	*6*		*10*	*9*

Tag No.: **19** ANGUS (PB) Polled Black Owner: John Finke & Dr. Deena Stoner
 Tattoo: 7 Born: 08/18/16 (ET) Pen 8 NickKatie Farms
 Name: NickKatie Worthy King Reg. No. 18831432 Columbus, IN
 Sire: SAV Net Worth 4200 47203-9747
 Dam's Sire: Leachman Right Time **Sale Index 49.3** 812-350-9942
Perf. Index 99.5

Birth Weight	84	On Test Wt.	860	Adj. REA	13.5
Birth CE	UN	End Test Wt.	1315	Adj. REA/cwt	0.97
Dam Age	11	ADG	3.64 (98)	Frame Score	5.4
205-d Adj. Wt.	808	WPDA	3.26 (102)	Adj. 365-Day SC	34
205-d PCT	100			Adj. Rib Fat	0.37
205-d NO	NC			Adj. % IM Fat	3.61 (100)
				% Retail Product	65.0 (99)
				Carcass Merit	99.9

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	\$W	\$F	\$G
	3.4 (.05)	45.0 (.05)	82.0 (.05)	24.0 (.05)	4.0 (.05)	8.0 (.05)		35.96	37.36	29.21
	2	*4*	*4*	*6*	*4*	*5*		*3*	*5*	*4*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat			\$QG	\$YG	\$B
	-1.0 (.05)	34.0 (.05)	.44 (.05)	.38 (.05)	.021 (.05)			27.38	1.83	109.55
	1	*5*	*5*	*4*	*4*			*5*	*4*	*5*

Tag No.: **37** ANGUS (PB) Polled Black Owner: Christopher Gher
 Tattoo: 4912 Born: 09/20/16 (S) Pen 6 Gher Angus Farm
 Name: 3GHER Pendleton 35-4912 Reg. No. 18757178 Paris, IL
 Sire: MW Pendleton 35 61944
 Dam's Sire: Connealy Impression **Sale Index 47.8** 217-822-2030
Perf. Index 95.2

Birth Weight	79	On Test Wt.	676	Adj. REA	11.1
Birth CE	UN	End Test Wt.	1120	Adj. REA/cwt	0.89
Dam Age	4	ADG	3.55 (96)	Frame Score	5.0
205-d Adj. Wt.	677	WPDA	3.03 (95)	Adj. 365-Day SC	34
205-d PCT	98			Adj. Rib Fat	0.24
205-d NO	4			Adj. % IM Fat	2.56 (71)
				% Retail Product	64.5 (99)
				Carcass Merit	84.9

EPDs:	Birth Wt	Wean Wt	Year Wt	Mat Milk	Direct CE	Mat CE	\$ Indexes:	\$W	\$F	\$G
	1.3 (.30)	61.0 (.25)	102.0 (.15)	30.0 (.11)	7.0 (.17)	10.0 (.11)		66.06	58.67	21.04
	6	*9*	*8*	*10*	*6*	*8*		*10*	*8*	*2*
	Docility	Carcass Wt	Marbling	Ribeye Area	Fat			\$QG	\$YG	\$B
	18.0 (.05)	46.0 (.20)	.23 (.15)	.55 (.19)	.008 (.16)			17.73	3.31	124.88
	7	*9*	*2*	*7*	*6*			*2*	*5*	*7*

IBEP HALL OF FAME
Highest Performance-Indexing Sale Eligible Individual (11,212 Tested)

Test	Breed (%)	ADG	WPDA	Perf. Index	Owner & Address
67	Angus	5.48	3.72	126.0	Bill Washburn, Olney, IL
68	SimAngus (50)	4.55	3.94	114.5	Saxe Farm, Thompsonville, IL
69	Angus	5.63	3.79	127.9	Schrader Farms Angus, Columbia City
70	Angus	5.44	3.38	118.7	Tucker Angus Farm, Morgantown, KY
71	SimAngus (50)	4.92	3.87	123.7	Bill Washburn, Olney, IL
72	Angus	4.79	3.90	119.8	Kiata Farms, Hamilton, OH
73	Angus	5.29	3.73	130.4	Bill Washburn, Olney, IL
74	Angus	5.46	3.70	126.9	Small Cattle Farms, Bloomfield
75	Angus	5.24	3.97	126.3	Bill Washburn, Olney, IL
76	Angus	4.89	3.92	128.1	Kiata Farms, Hamilton, OH
77	Simmental	4.93	4.09	126.1	Eggersman Brothers, Brownstown
78	Angus	4.56	3.81	119.5	Willer Timber Ridge, Greencastle
79	Angus	5.50	3.51	127.7	Dan Stewart, Yorktown
80	Simmental	4.92	3.89	130.0	B&K Cattle, Crandon, WI

Highest Sale-Indexing Bull

Test	Breed (%)	ADG	WPDA	Sale Index	Owner & Address
67	Angus	4.82	3.62	25/28	Bill Washburn, Olney, IL
68	Angus	3.72	3.33	58/70	Powell Farms, Worthington
69	Angus	4.70	3.83	64/70	Kiata Farms, Hamilton, OH
70	Angus	4.57	3.93	63/70	Kiata Farms, Hamilton, OH
71	Angus	4.36	3.72	65/70	Cardinal Hill Farms, Glasgow, KY
72	Angus	4.17	3.77	64/70	Powell Farms, Worthington
73	Angus	4.37	3.75	65/70	Way View Cattle Co. LLC, Hebron, OH
74	Angus	3.98	3.52	60/70	Powell Farms, Worthington
75	Angus	4.39	3.76	62/70	Kohli Farms, Circleville, OH
76	Angus	4.19	3.56	69/70	Powell Farms, Worthington
77	Angus	4.86	3.81	60/70	Kohli Farms, Circleville, OH
78	Angus	3.77	3.69	105.4	Kiata Farms, Hamilton, OH
79	Angus	4.77	3.76	91.0/100	Kiata Farms, Hamilton, OH
80	Angus	4.21	3.53	81.8/100	Kiata Farms, Hamilton, OH

IBEP HALL OF FAME
Highest-Indexing Get-of-Sire (1,253 Tested)

Test	Breed	ADG	WPDA	Perf. Index	Owner & Address
60	Angus Sire: Grubbs Modern Design 44	3.92	3.16	105.1	Grubbs Angus Farm, Hillsboro
61	Maine-Anjou Sire: NAGE Revenue 65R	3.57	3.37	115.4	Barry & Susan Wilson, West Baden Springs
62	Angus Sire: Dalebanks Alliance 0872	4.75	3.66	110.5	Rural Venture Farm, Lawrenceburg, KY
63	Angus Sire: Dr J Analyst M250	4.37	3.24	108.8	Bill Washburn, Olney, IL
64	Angus Sire: CRA Bextor 872 5205 608	4.29	3.70	107.7	Kiata Farms, Hamilton, OH and Wessel Angus, Trafalgar
65	Simmental Sire: Sand Ranch Hand	4.48	3.51	110.7	Bill Washburn, Olney, IL
66	Angus Sire: SS Objective T510 0T26	4.01	3.39	101.1	Powell Farms, Worthington
67	Angus Sire: TC Total 410	4.67	3.58	112.5	Bill Washburn, Olney, IL
68	SimAngus Sire: ALC Big Eye D09N	4.12	3.59	104.0	Saxe Farm, Thompsonville, IL
69	SimAngus Sire: Mr NLC Upgrade U8676	4.79	3.73	112.5	Bill Washburn, Olney, IL
70	Angus Sire: CRA Bextor 872 5205 608	4.51	3.75	109.6	Kiata Farms, Hamilton, OH
71	SimAngus Sire: Mr NLC Upgrade U8676	4.05	3.70	107.7	Bill Washburn, Olney, IL
72	SimAngus Sire: ALC Big Eye D09N	4.61	3.91	116.1	Saxe Farm, Thompsonville, IL
73	Angus Sire: Connealy Confidence 0100	4.86	3.63	122.3	Bill Washburn, Olney, IL
74	Angus Sire: Home Acres CC&7 7118	4.58	3.26	108.4	Home Acres Farm Inc., Lebanon, OH
75	Angus Sire: SS Niagara Z29	4.71	3.69	115.0	Stewart Select Angus, Greensburg
76	Angus Sire: Deer Valley All In	3.89	3.48	106.4	Brown Family Farms, Norman and Kiata Farms, Hamilton, OH
77	Angus Sire: SS Niagara Z29	4.71	3.80	113.7	Stewart Select Angus, Greensburg
78	Angus Sire: Home Acres CC&7 7118	4.52	3.01	109.0	Home Acres Farm Inc., Lebanon, OH
79	Angus Sire: SS Niagara Z29	4.53	3.68	114.7	Rolling Acres Angus, Freetown Snider-Clayton Farms, Goshen and Underwood Angus Farms, N. Manchester
80	Angus Sire: RB Tour of Duty 177	3.99	3.21	104.5	Dolph Angus, Walkerton and Snider-Clayton Farm, Goshen

80th IBEP BULL SALE - OCTOBER 21, 2017
Bulls in Order by Breed and Ear Tag

Tag Number	Breed	Performance Index	Page Number	Price
1	ANGUS	107.1	20	
4	ANGUS	107.3	19	
5	ANGUS	94.7	22	
7	ANGUS	99.1	24	
9	ANGUS	103.5	22	
12	ANGUS	102.3	21	
14	ANGUS	104.6	16	
16	ANGUS	127.3	16	
19	ANGUS	99.5	25	
28	ANGUS	111.7	17	
30	ANGUS	100.8	18	
32	ANGUS	112.1	15	
37	ANGUS	95.2	25	
38	ANGUS	119.5	16	
41	ANGUS	127.1	19	
45	ANGUS	97.9	23	
46	ANGUS	105.0	20	
47	ANGUS	101.1	21	
49	ANGUS	95.0	22	
51	ANGUS	107.1	18	
58	ANGUS	97.5	20	
60	ANGUS	111.4	19	
61	ANGUS	111.6	17	
64	ANGUS	95.3	23	
65	ANGUS	109.8	18	
69	ANGUS	94.6	24	
23	HEREFORD	110.5	15	
25	SIM-ANGUS	118.1	15	
26	SIM-ANGUS	101.2	21	
53	SIM-ANGUS	101.0	23	
54	SIM-ANGUS	96.4	24	
55	SIM-ANGUS	95.9	25	
10	SIMMENTAL	130.0	17	

INDIANA BEEF EVALUATION PROGRAM
Lilly Hall, Dept. of Animal Sciences
915 W. State St.
West Lafayette, IN 47907-2054

2017 Officers

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	Wayne Singleton	Animal Sciences, Purdue, Prof. Emeritus	(765) 494-4839