



Nothing is more dependable for predicting genetic potential.

GE-EPDs powered by HD 50K.

Angus breeders and their customers now have access to genomic-enhanced expected progeny differences (GE-EPDs), powered by the High Density 50K (HD 50K) platform.

- Combines the industry-leading American Angus Association National Cattle Evaluation EPDs with the industry's first and only 54,000-marker panel
- Nothing delivers greater dependability to help predict the genetic merit of young, unproven Angus cattle, and enhance the scope of selection for relatively proven animals for difficult, time-consuming and hard-to-measure traits

<p>Angus EPDs: The industry's largest, most frequent and only genomic-enhanced genetic evaluation</p>	<ul style="list-style-type: none"> • Combines pedigree information, performance data from the animal, its relatives and progeny, and HD 50K genomic information • A single EPD value for each trait enables simple, dependable comparisons of genetic merit between Black Angus animals • Includes accuracy values that range from zero to one <ul style="list-style-type: none"> – Higher accuracy values mean the EPD has greater reliability and less potential to change as additional progeny data accumulates
<p>HD 50K: The industry's first and only commercially adapted high-density marker platform</p>	<ul style="list-style-type: none"> • More than 54,000 DNA markers • 14 economically important traits • Results reported as percentile ranks associated with molecular breeding values, benchmarked against more than 5,000 HD 50K-tested Black Angus animals and reported to the nearest 1 percent
<p>Together, more dependable predictions for more profitable decisions</p>	<ul style="list-style-type: none"> • HD 50K information, when combined with Angus EPDs, provide the most accurate and complete picture of the animal's genetic potential • Enhances selection, mating and marketing decisions to accelerate genetic progress

Powerful information to help accelerate genetic improvement.

Sire Prospects and Herd Sires

With GE-EPDs powered by HD 50K, you can more dependably identify:

- Sires to use extensively, strategically or sparingly, based on your breeding objectives
- Genetically superior young sires to accelerate genetic improvement
- Calving-ease sires for use on replacement heifers
- Sires more likely to produce more productive replacement females
- Sires that excel in feedlot growth, efficiency and carcass merit

Replacement Heifers and Donor Prospects

GE-EPDs powered by HD 50K enable:

- More accurate and complete evaluation of genetic strengths and weaknesses in females at an earlier age, for a lifetime of wiser mating decisions
- Prediction of genetic merit in females with reliabilities equivalent to more than a lifetime of natural calf production
- Reduced risk associated with embryo transfer (ET) production through more informed donor selection

ET Progeny

The addition of HD 50K data to EPDs helps you:

- Determine differences in genetic merit among ET full siblings at a young age and independent of recipient dam effects
- Make more informed selection, mating and marketing decisions about ET calves

See how more comprehensive genetic information can work for you.

- All samples must be sent to Angus Genetics, Inc. (AGI)
 - Samples should be submitted on FTA® cards
 - Results reported as GE-EPDs, associated accuracies and HD 50K percentile ranks
 - Complete information and order forms are available at www.pfizeranimalgenetics.com and www.angus.org
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To learn more, contact your Pfizer Animal Genetics or American Angus Association representative, or visit www.pfizeranimalgenetics.com or www.angus.org.



Traits with HD 50K genomic predictions

- Calving Ease
 - Birth weight
 - Calving ease direct
- Growth
 - Weaning weight
 - Average daily gain
 - Yearling weight
- Efficiency
 - Dry matter intake
 - Residual feed intake
- Maternal
 - Calving ease maternal
 - Milking ability
- Carcass
 - Carcass weight
 - Fat thickness
 - Ribeye area
 - Marbling score
 - Tenderness