NOTHING IS MORE DEPENDABLE FOR EARLY PREDICTION OF GENETIC POTENTIAL
GE-EPDS POWERED BY HD 50K FOR CANADIAN ANGUS.

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

- GE-EPDs combine pedigree and performance data from the Canadian Angus Association (CAA) with genomic predictions from the industry’s first and only high density panel.
- Nothing delivers greater dependability to help predict the genetic merit of young, unproven Canadian Black and Red Angus cattle. HD 50K for Canadian Angus enhances the scope of selection for difficult, time-consuming and hard-to-measure traits.

HD 50K: THE INDUSTRY STANDARD FOR DEPENDABLE Boosts IN EPD ACCURACY FOR RED AND BLACK ANGUS ANIMALS

- More than 54,000 DNA markers
- 13 economically important traits and SNP parentage verification
- Results are reported as GE-EPDs and percentile ranks associated with molecular breeding values determined by the animal's genotype.

ENHANCE YOUR CATTLE SELECTION DECISIONS WITH THE POWER OF GENOMICS.

SIRE PROSPECTS AND HERD SIRES

With GE-EPDs powered by HD 50K and percentile ranks, you can more accurately identify:
- Sires to use, based on your breeding objectives
- Genetically superior young sires to accelerate genetic improvement
- Calving-ease sires for use on replacement heifers
- Sires likely to yield 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 and percentile ranks 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 and mating decisions
HD 50K INFORMATION, WHEN INTEGRATED INTO CAA EPDS, PROVIDES THE MOST ACCURATE AND COMPLETE PICTURE OF THE ANIMAL’S GENETIC POTENTIAL

Together, more dependable predictions for more profitable decisions

INCREASED EPD ACCURACY WITH GE-EPDS:

Higher accuracy values mean the EPD has greater reliability and less potential to change as additional progeny data accumulates

<table>
<thead>
<tr>
<th>WW EPD</th>
<th>Accuracy</th>
<th>Possible Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional EPD</td>
<td>+ 45 lbs</td>
<td>0.10 +/- 10.4 lbs</td>
</tr>
<tr>
<td>GE-EPD (same bull)</td>
<td>+ 40 lbs</td>
<td>0.35 +/- 7.6 lbs</td>
</tr>
</tbody>
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To order a kit, contact the Canadian Angus Association at 1-888-571-3580 or www.cdnangus.ca
Hair, ear punch (Allflex tissue sampling units) or semen samples can be used for HD 50K testing.
The Zoetis HD 50K Black Angus test kits should be requested for Black Angus animals.
The Zoetis HD 50K Red Angus test kit should be requested for Canadian Red Angus or Red gene carrier animals.

To learn more, contact the Canadian Angus Association at 1-888-571-3580 or your Zoetis representative.

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