



Understanding Calving Ease Daughters EBVs

Calving Ease Dir (%)	Calving Ease Dtrs (%)	Gestation Length (days)	Birth Wt. (kg)	2yr Wt. (kg)	Carcase Wt. (kg)	Eye Muscle Area (sq. cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)	NFI-P (kg/day)	NFI-F (kg/day)	Docility	Angus Breeding Index	Domestic Index	Heavy Grain Index	Heavy Grass Index
+4.6 99%	+6.1 97%	-5.2 99%	+2.1 99%	+3.1 99%	+42 98%	+4.1 98%	+1.7 98%	+2.0 98%	-0.7 98%	+1.3 98%	+0.35 96%	+1.05 96%	+25 90%	+\$ 77	+\$ 88	+\$ 65	+\$ 83
+3.2 98%	+2.0 96%	-9.8 99%	+2.2 99%	+3.1 99%	+21 98%	+4.0 98%	+1.3 98%	+1.2 98%	+0.2 98%	+2.7 98%	+0.03 96%	-0.13 96%	+13 95%	+\$ 127	+\$ 113	+\$ 139	+\$ 119
+0.7 98%	-2.9 96%	-0.3 99%	+3.1 99%	+3.1 99%	+26 98%	+4.0 98%	+1.3 98%	+1.2 98%	+0.2 98%	+2.7 98%	+0.03 96%	-0.13 96%	+13 95%	+\$ 105	+\$ 96	+\$ 120	+\$ 97
+1.0 98%	+1.3 94%	-5.0 99%	+3.6 99%	+3.9 99%	+31 98%	+4.0 98%	+1.3 98%	+1.2 98%	+0.2 98%	+2.7 98%	+0.03 96%	-0.13 96%	+13 95%	+\$ 139	+\$ 120	+\$ 165	+\$ 126
+5.9 98%	+6.2 93%	-9.0 99%	+2.2 99%	+3.1 99%	+26 98%	+4.0 98%	+1.3 98%	+1.2 98%	+0.2 98%	+2.7 98%	+0.03 96%	-0.13 96%	+13 95%	+\$ 164	+\$ 132	+\$ 194	+\$ 144

Calving Ease Daughters EBVs are estimates of genetic differences in the ability of a sire's daughters to calve unassisted at 2 years of age.

Higher Calving Ease Daughters EBVs indicate the animal is expected to produce a higher percentage of daughters who will calve unassisted at 2 years of age.

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Calving Ease Daughters EBVs are calculated from calving difficulty scores, birth weights and gestation length information, and/ or genomic information where available, and are expressed as differences in the percentage of daughters that will calve unassisted.

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Using Calving Ease Daughters EBVs to Compare the Genetics of Two Animals

Calving Ease Daughters EBVs can be used to estimate the difference in the percentage of daughters from two sires who will calve unassisted at 2 years of age, with the expected difference equating to half the difference in the Calving Ease Daughters EBV of the sires, all other things being equal (e.g. their daughter/s are joined to the same sire/s).

For example, a bull with a Calving Ease Daughters EBV of +4.0 would be expected to produce on average, 3% more daughters who will calve unassisted at 2 years of age than a bull with a Calving Ease Daughters EBV of -2.0 (i.e. 6% difference between sire's EBVs, then halved as the sire only contributed half the genetics).

Using Calving Ease Daughters EBVs to Benchmark an Animal's Genetics with the Breed

Similarly, Calving Ease Daughters EBVs can be used to benchmark an animal's genetics for calving ease relative to other Angus animals in Australia and New Zealand.

To benchmark an animal's genetics relative to other Angus animals, an animal's Calving Ease Daughters EBV can be compared to:

- the breed average EBV
- the percentile table

The current breed average and percentile table for Calving Ease Daughters can be found on the Angus Australia website, or they are normally listed in most BREDPLAN reports, sale and semen catalogues.

Considering Accuracy

An accuracy value is published in association with each Calving Ease Daughters EBV, which is usually displayed as a percentage value immediately below the EBV.

The accuracy value provides an indication of the reliability of the EBV in estimating the animal's genetics for calving ease (or true breeding value), and is an indication of the amount of information that has been used in the calculation of the EBV.

Calving Ease Daughters EBVs with accuracy values below 50% should be considered as preliminary or of low accuracy, 50-74% as of medium accuracy, 75-90% of medium to high accuracy, and 90% or greater as high accuracy.

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