Comparing EBVs from Different Analyses

TIP SHEET

With the majority of breed associations currently running their own individual BREEDPLAN analysis, beef producers often question whether EBVs from different analyses can be directly compared. The answer is no – only EBVs produced in the same BREEDPLAN analysis can be directly compared. For this reason, all EBVs published by ABRI identify the BREEDPLAN analysis in which they were produced.

There are multiple reasons why only EBVs from the same analysis should be directly compared. Each BREEDPLAN analysis has its own unique genetic base (historic genetic level of the population). In addition, each BREEDPLAN analysis has its own range of genetic parameters (including heritability of traits and genetic correlations between traits) and type of analysis (e.g. purebred vs crossbred analysis). Even where the same animals are present in multiple genetic evaluations, the number and type (i.e. purebred and/or crossbred) of progeny and associated performance data recorded may vary between different analyses.

✕ **EBVs of animals in <u>DIFFERENT</u> analyses <u>CANNOT</u> be compared.**

This includes where animals of different breeds are analysed separately, and where animals of similar breed type are in different analyses. For example, EBVs from the Australian Charolais BREEDPLAN analysis are not comparable to EBVs from the Australian Brahman BREEDPLAN analysis. Equally, EBVs from the UK Simmental BREEDPLAN analysis are not equivalent to EBVs in the South African Simmentaler BREEDPLAN analysis.

✓ **EBVs of animals in the <u>SAME</u> analysis <u>CAN</u> be compared.**

For example, EBVs of animals of different breeds and/or countries of origin within a single BREEDPLAN analysis. This includes a BREEDPLAN analysis where multiple breed associations have combined to run a joint analysis (e.g. TransTasman).

For further information, please contact staff at your BREEDPLAN processing centre.

"Only EBVs for animals within the same BREEDPLAN analysis can be directly compared"

For more information visit breedplan.une.edu.au