

Using Australian Brangus Selection Indexes



Selection indexes assist beef producers to make selection decisions that take into account the relevant growth, carcase, fertility and efficiency attributes of each animal to identify candidates whose progeny will be the most profitable for a particular commercial enterprise. Selection indexes provide an overall indication of an animal's genetic value for profit in a specific production system/target market and are calculated based on weightings placed on individual traits that are deemed to be important for that production system.

The weightings are calculated using [BreedObject](#) software that analyses all sources of costs and income for the production system represented by each selection index. As such, selection indexes account for both sides of the profit equation and reflect the short and long term profit possible through selection of superior genetics. For example, short term profit can be generated by a bull through the sale of his progeny, and the longer term profit generated by his daughters in a self-replacing cow herd.

Best Practice Guide to Animal Selection Using Australian Brangus Selection Indexes

Incorporating selection index information into breeding decisions takes the hard work out of trying to decide how much emphasis you need to put on individual EBVs when determining which animals you want to retain in your herd or purchase. The recommended strategy for selecting animals is to complete the following steps:

1. Identify the selection index of most relevance to your or your client's breeding objectives. This decision should be aided by the index descriptions at the end of this document.
2. Rank animals on the chosen selection index. This can be done via the web search facility available for the breed.
3. Consider the individual BREEDPLAN EBVs of importance. All breed level selection indexes are designed for the average of the production system specified in their description. This means that individual farm environments and management choices may require that their own thresholds are applied. For example, if looking for a bull to use over heifers, particular attention should be paid to Calving Ease and Birth Weight EBVs.
4. Consider other traits of importance. Structure, fertility (e.g. BULLCHECK™), temperament, genetic conditions and pedigree are all important additional considerations.

Further information is available in the [A BREEDPLAN Guide to Animal Selection](#) tip sheet that can be found in the [Help Centre](#) on the BREEDPLAN website.



Available Australian Brangus Selection Indexes

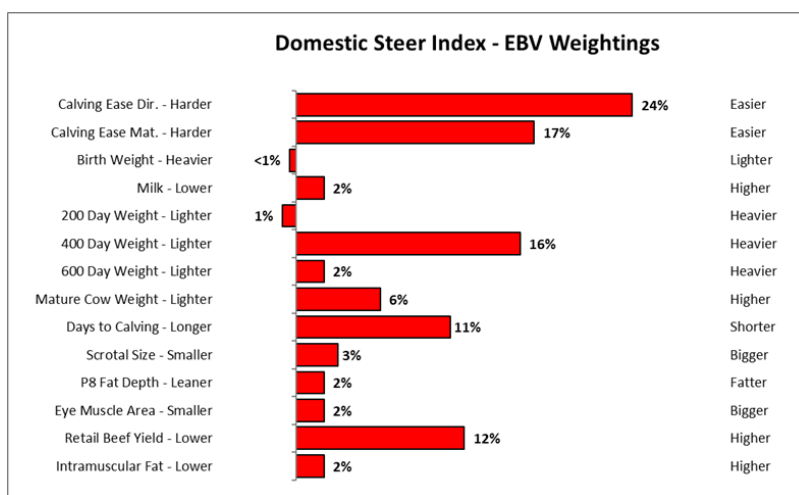
The Australian Brangus Cattle Association Ltd. currently reports two different selection indexes. These are the:

- Domestic Steer Index
- Export Steer Index

Each selection index is reported in units of net profitability per cow mated (\$), and relates to a self-replacing Brangus herd. In addition, each selection index targets the following specifications:

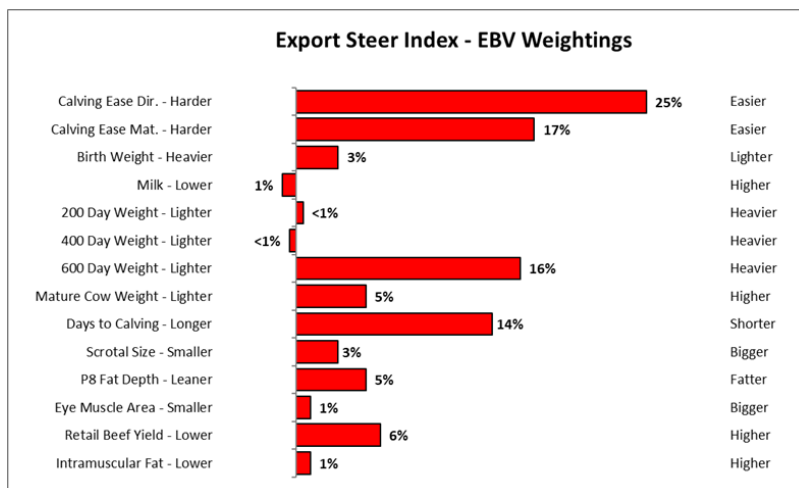
Domestic Steer Index

- Self-replacing commercial herd targeting the domestic trade.
- Temperate environment.
- Selected heifers are retained for breeding so maternal traits are important.
- Steer progeny are pasture grown and finished on grain for 75 days.
- Steers target 490 kg live weight (265 kg HSCW & 10 mm P8 fat depth) at 15 months of age.



Export Steer Index

- Self-replacing commercial herd targeting the export trade.
- Tropical environment.
- Selected heifers are retained for breeding so maternal traits are important.
- Steer progeny are pasture grown and finished on grain for 75 days.
- Steers target 620 kg live weight (325 kg HSCW & 16 mm P8 fat depth) at 30 months of age.



More detail on the trait and EBV emphasis for each of the selection indexes described above is available in the [Australian Brangus Selection Indexes: Technical Specifications](#) tip sheet that can be found in the [Help Centre](#) on the BREEDPLAN website.

If you have any further queries regarding the Australian Brangus Selection Indexes, please do not hesitate to contact staff at your BREEDPLAN processing centre.