



# Understanding EBV Standard Error Graphs

The EBV Standard Error graph provides an indication of the possible change in EBVs for each trait as more information becomes available.

The horizontal bar for each trait displays one standard error either side of the current EBV value, meaning that statistically, there is a 67% chance that the true breeding value for this trait will be within this range.

Another way of looking at this is to consider that as more performance information is added for this animal, the EBV would be expected to fall within the EBV range displayed in the graph on 7 out of 10 occasions.

Of course, as the EBV takes into account all the pedigree, performance and genomic information that is available at this point in time, the EBV is also the most reliable indication available of the animal's breeding value for each trait at this point in time, irrespective of accuracy.

## Accessing the EBV Standard Error Graph

The EBV Standard Error Graph for an animal can be accessed from the EBV Enquiry facility on the Angus Australia website.

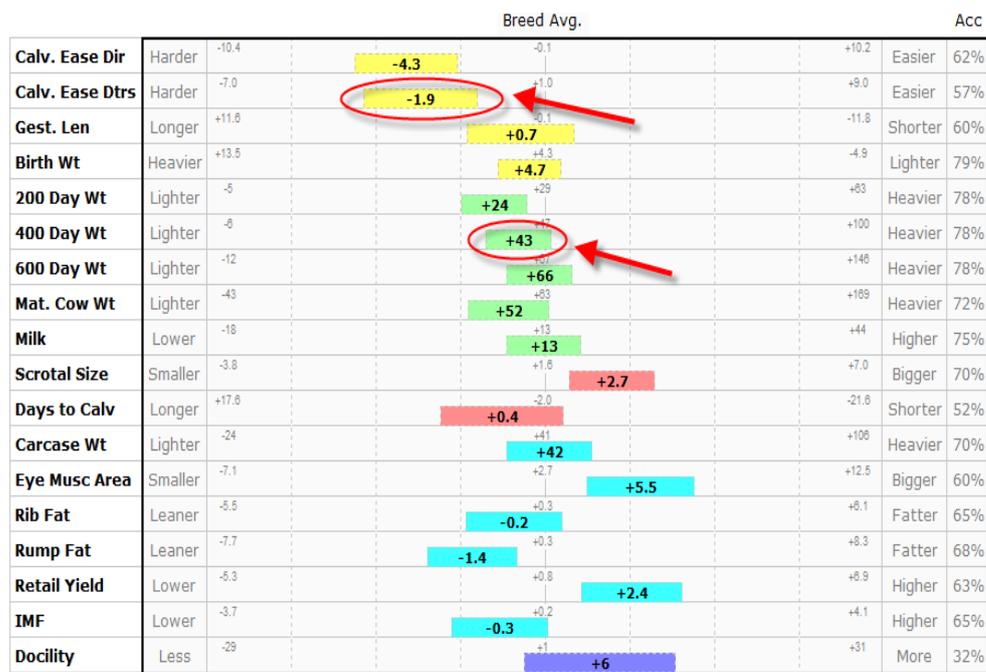
To access the EBV Standard Error graph, users need to navigate to animal's individual animal details page and then click either "EBV Graph" or the graph icon as they would normally do to display the EBV Percentile graph.

At the bottom of the EBV Percentile Graph, a button will display titled "Switch Graph". Clicking on this button will display the EBV Standard Error graph for the animal.

## Further Assistance

For further assistance with the interpretation and understanding of the EBV Standard Error graph, please contact staff at Angus Australia.

## Interpreting the EBV Standard Error Graph



- The EBV Accuracy for each trait is shown at the right side of the graph.
- The Breed Average EBV values are listed in the centre of the graph and reflect the average EBVs of current animals within the breed (i.e. all 2 year old animals).
- The minimum and maximum EBV values displayed at the left and right of the graph for each trait represent four standard deviations from the current Breed Average values, rather than the current minimum and maximum EBV values for the breed.
- The horizontal bar displays where the animal is placed in relation to the current animals within the breed for each trait. One standard error either side of the current EBV value is displayed, meaning that statistically, the animal's true breeding value for this trait will be within this range on 7 out of 10 occasions.

In the example above the animal's 400 Day Wt EBV is of higher accuracy than its Calv. Ease Dtrs EBV and so there is less possible change in the 400 Day Wt EBV as additional information becomes available.