

LESSONS FROM THE



Angus SireTM
Benchmarking Program



STARTING vs FINISHING EBVS

INDIVIDUAL SIRE CHANGES



HOW MUCH DID EACH INDIVIDUAL ANIMAL'S EBVS CHANGE?

How was it calculated?

Initial EBVs:

EBVs and EBV Accuracies were calculated using the latest Angus BREEDPLAN analytical software based on the pedigree and performance information available when the sires were first entered into the ASBP.

Final EBVs:

EBVs and EBV Accuracies were again calculated for each sire once they had been progeny tested in the ASBP and all progeny performance data had been included in the analysis.



How much did EBVs change on average?



Table 1: Average 200 Day Growth EBVs for Sires in Cohort 3

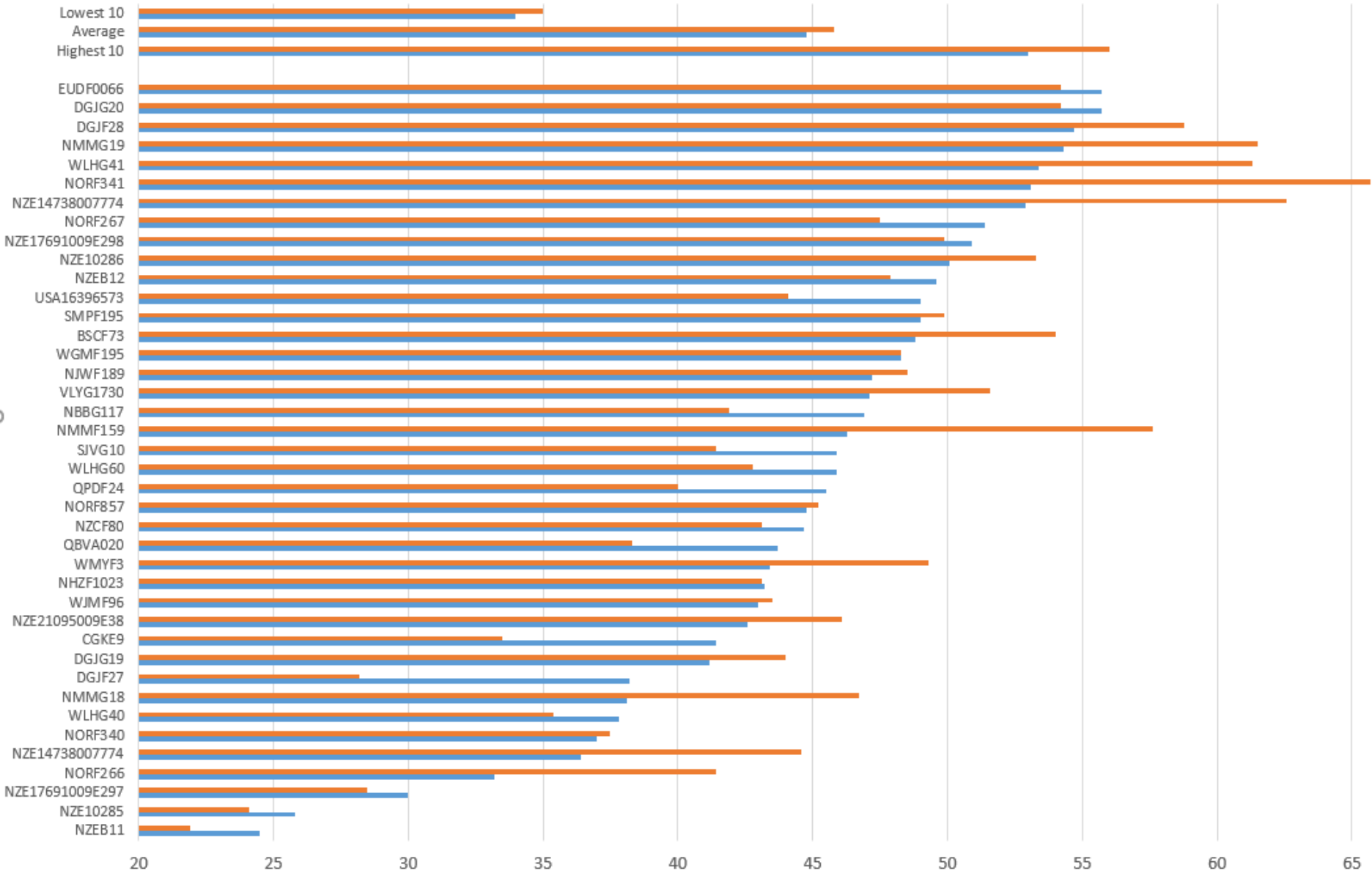
200 Day Growth (kg)	Initial EBV	Final EBV
Average Highest 10	+53	+56
Average Cohort 3	+45	+46
Average Lowest 10	+34	+35

Minimal change was observed, on average, in the EBVs of sires in cohort 3 of the ASBP for 200 Day Growth.



How much did individual EBVs change?

Finishing EBV Starting EBV



How much did individual EBVs change?

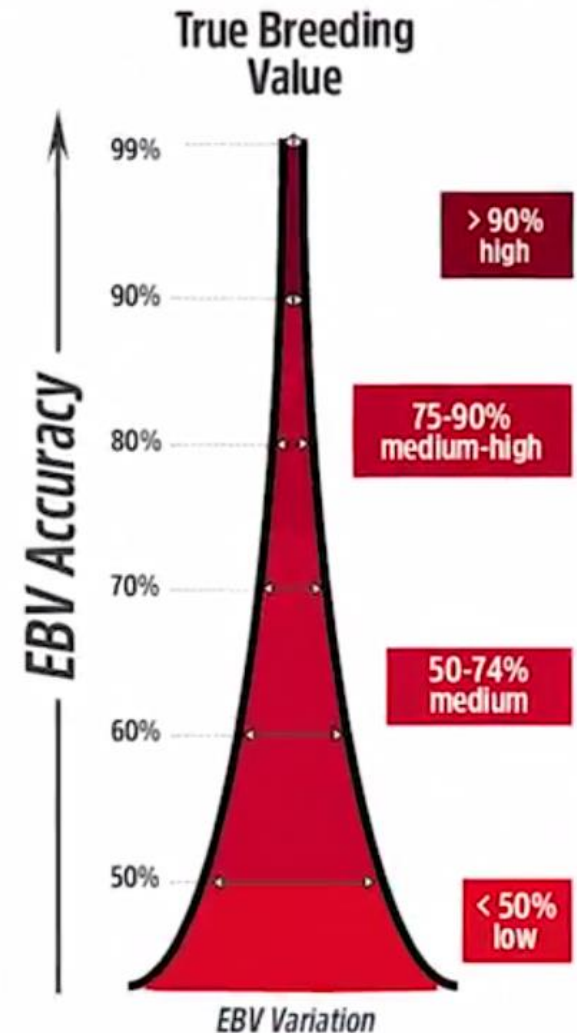
- While there was minimal change, on average, in the 200 Day Growth EBVs of sires in Cohort 3 of the ASBP, the EBVs for some individual sires did change.
- The EBVs for some sires increased, some decreased and some remained unchanged, there was not a significant amount of re-ranking observed.
- The EBV of a sire who had a low initial EBV may have increased, but the sire's EBV would still be relatively low by comparison to the other sires.



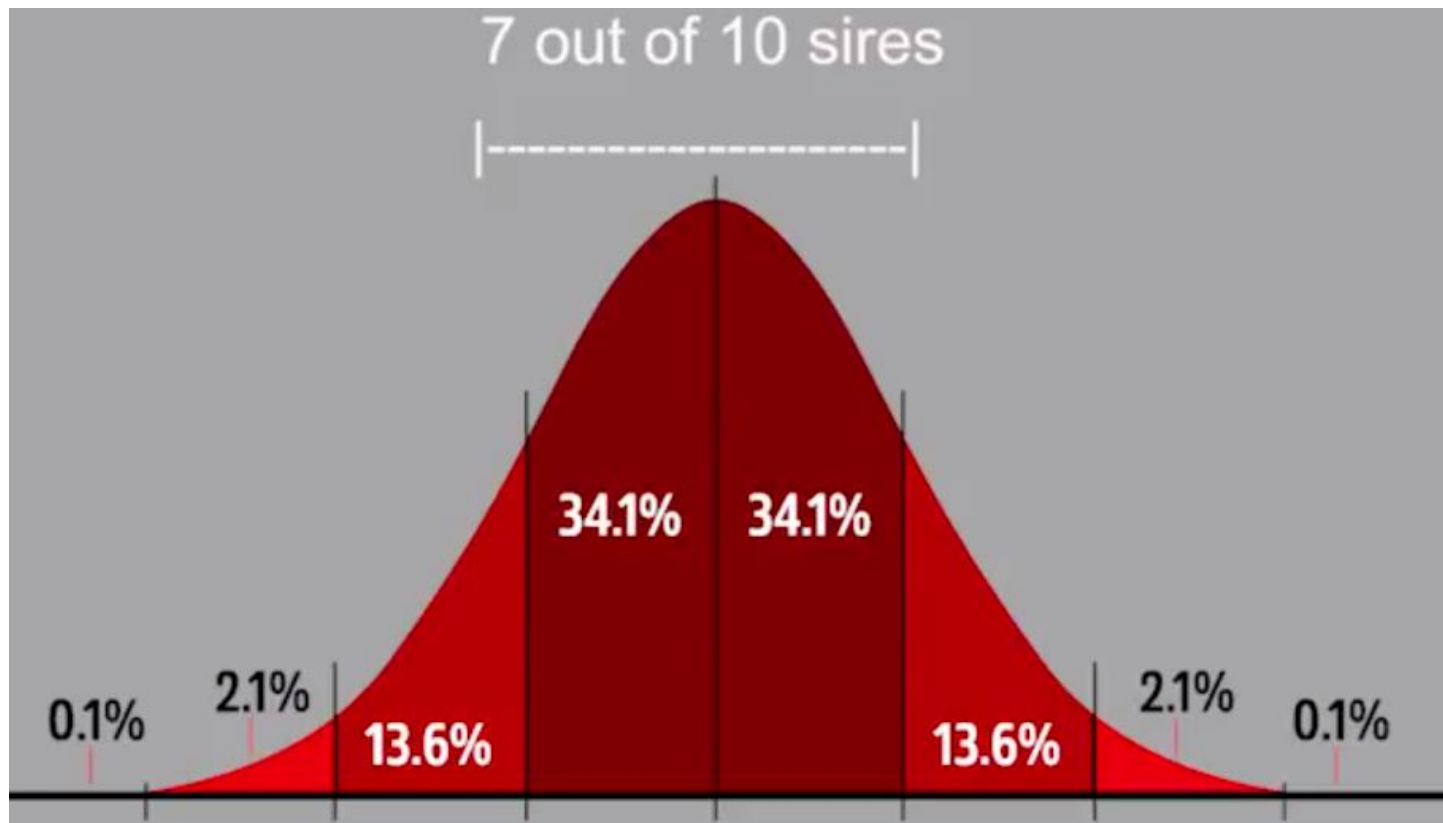
How much did Accuracies change on average?

Table 2: Average 200 Day Growth EBV Accuracies for Sires in Cohort 3

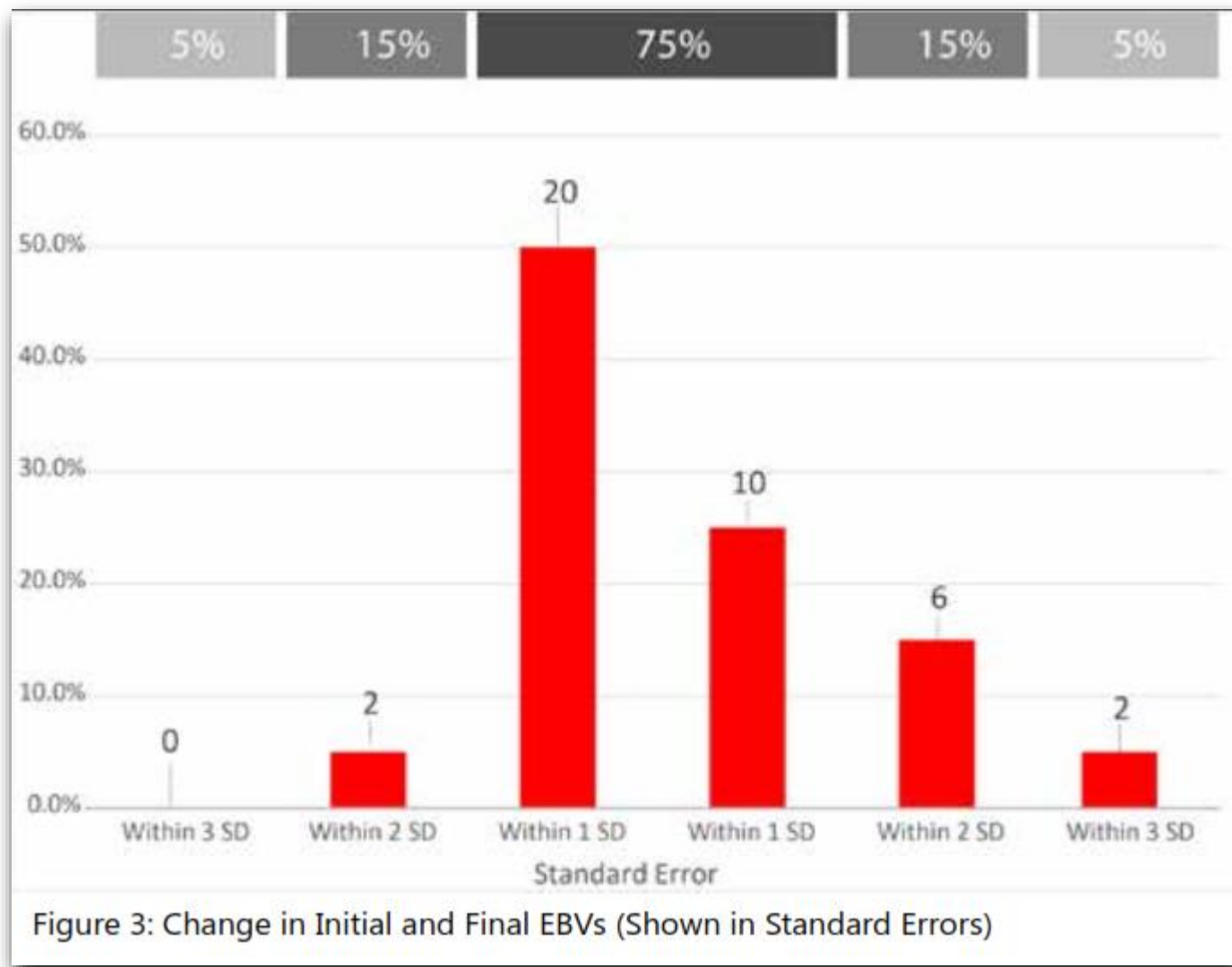
200 Day Growth (kg)	Initial Accuracy	Final Accuracy
Average Highest 10	69%	93%
Average Cohort 3	71%	92%
Average Lowest 10	74%	93%



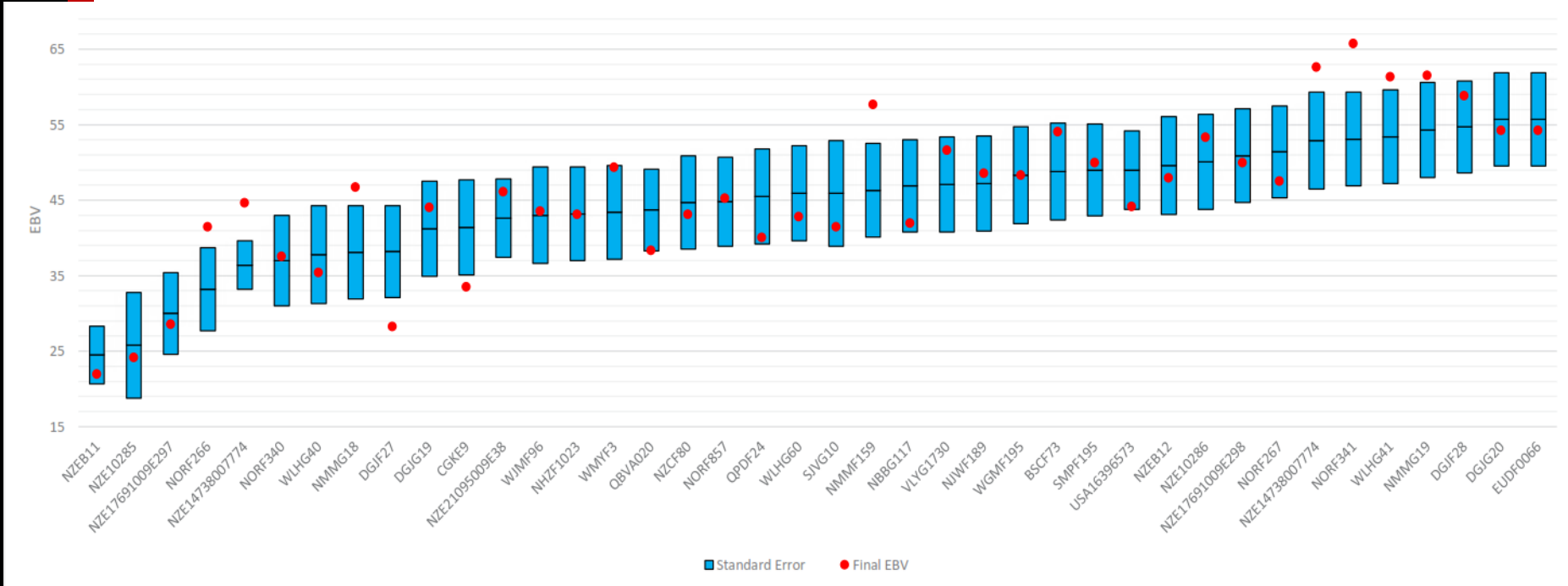
Were the changes in the EBVs of Individual Sires Within Expected Ranges?



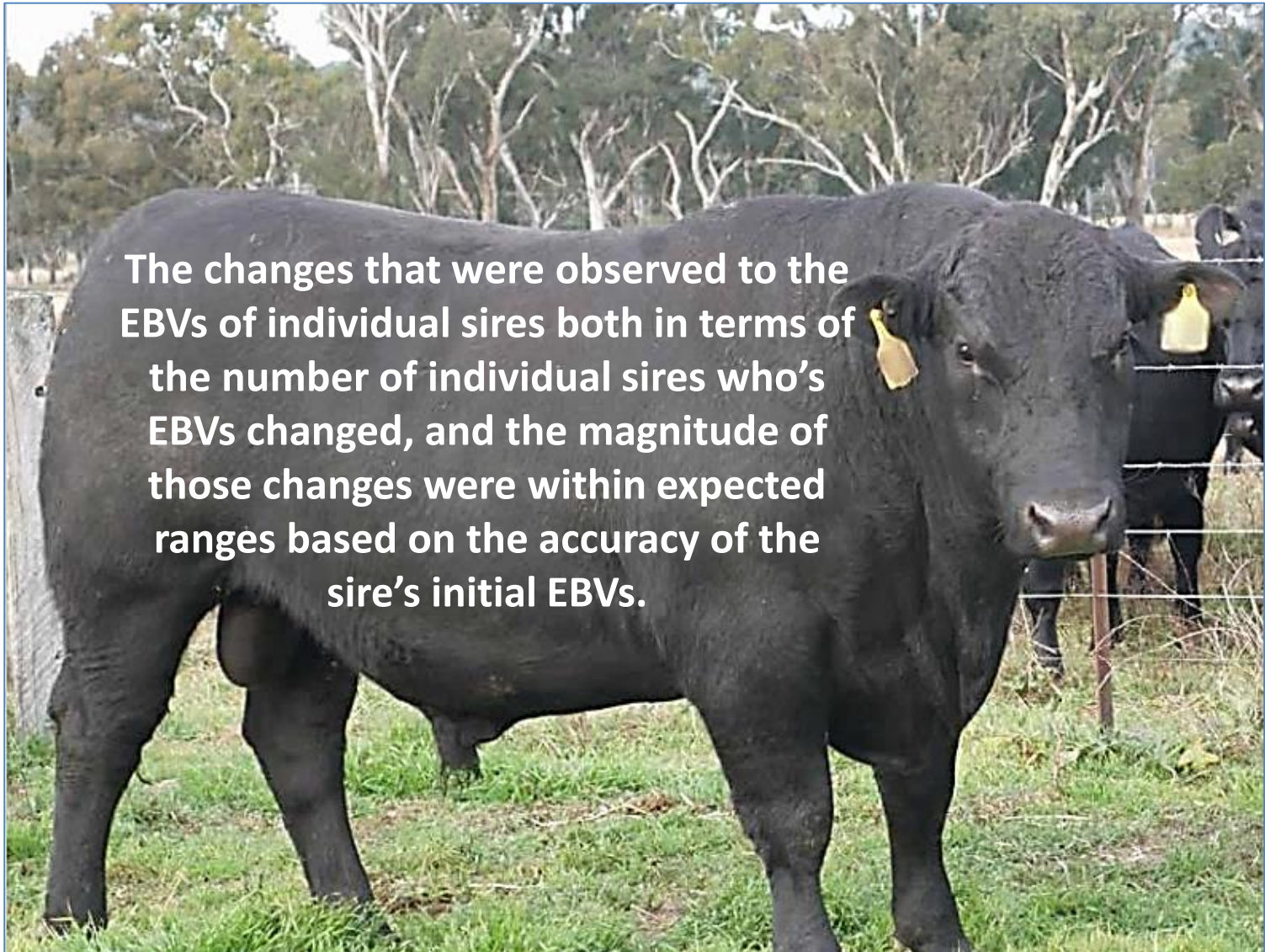
Were the changes in the EBVs of Individual Sires Within Expected Ranges?



Change in EBV Expected (1SE) Vs Change in EBV Observed



Summary: Individual Sire EBV Changes



Initial EBVs, despite being of low accuracy describe the relative genetic merit of the sires well.



FOR MORE INFORMATION:

The screenshot shows the Angus Australia website. At the top, there is a navigation bar with links for HOME, MEMBER SEARCH, ANIMAL SEARCH, EBV SEARCH, CATALOGUES, MATING PREDICTOR, MEMBER LOGIN, and SHOP. Social media icons for Facebook, Twitter, YouTube, and Instagram are also present. The main header features the Angus Australia logo (a silhouette of a cow above the word 'Angus' in a red box with 'AUSTRALIA' below it) and the tagline 'Enhancing & Promoting the value of Angus'. The central content area is a 'Producer Spotlight' for Bruce Derryhouse. It includes a photo of him kneeling in a field with several black Angus cows. A quote from him reads: "THE ANGUS COWS HAVE BEEN IDEAL. THEY ARE REALLY GOOD MOTHERS, & VERY GOOD MILKERS. THEY JUST SUIT US, THEY ARE EASY-CARE CATTLE." Below the photo, it states he has been breeding Angus cattle for 20 years and is impressed with the breed's evenness, mothering ability, and growth rate. His location is listed as "SUNSHINE", GLENELLEN, NORTH OF ALBURY, and the hashtag #ANGUSPREMIUM is shown. A navigation menu at the bottom lists various sections: ABOUT, NEWS & EVENTS, MEMBERS, REGISTRATIONS, BREEDPLAN, BREEDING, MARKETING, EXPORT, SIRE BENCHMARKING (highlighted in yellow), ANGUS FOUNDATION, and ANGUS YOUTH. Below this menu, three columns of content are visible: 'ABOUT' with links for General Information, Consultative Committee, and Bull Nominations; 'SIRE COHORTS' with links for First through Seventh Cohort; and 'LESSONS FROM THE ASBP' with links for Project Overview and Capitalising on genetic variation.

