

LESSONS FROM THE



Angus SireTM
Benchmarking Program



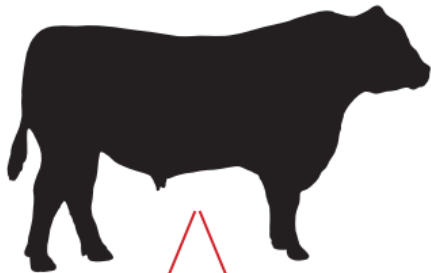
**How Much Genetic
Variation Exists
Between Angus
Animals?**

How was it calculated?

STEP 1

#1

CALCULATE AVERAGE PROGENY PERFORMANCE FOR EACH SIRE



progeny performance group average

STEP 2

HIGHEST 5



#2

RANK EACH COHORT OF SIRES ON PROGENY PERFORMANCE

(Highest to Lowest on each trait)

LOWEST 5



STEP 3

#3

CALCULATE DIFFERENCE IN PROGENY PERFORMANCE BETWEEN 5 HIGHEST AND 5 LOWEST PERFORMING SIRES IN EACH COHORT



AVERAGE PROGENY PERFORMANCE OF 5 HIGHEST SIRES



AVERAGE PROGENY PERFORMANCE OF 5 LOWEST SIRES

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DIFFERENCE IN AVERAGE PROGENY PERFORMANCE



Variation in Calving Ease & Fertility

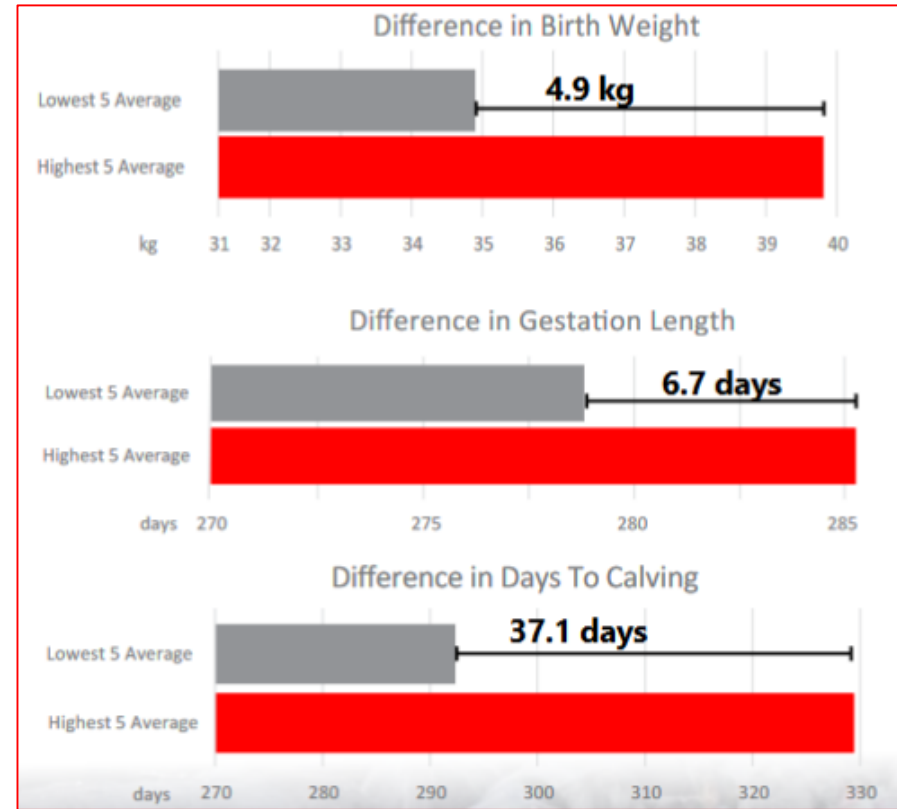
Traits

- Birth Weight
- Gestation Length
- Days to Calving



TABLE 1: Difference between average progeny performance of highest five and lowest five performing sires for birth and fertility traits

	Birth Weight	Gestation Length	Days to Calving
Cohort 1	4.4 kg	7.0 days	45.7 days
Cohort 2	4.8 kg	5.9 days	44.8 days
Cohort 3	5.5 kg	7.4 days	20.8 days
Average	4.9 kg	6.7 days	37.1 days



Variation in Growth Traits

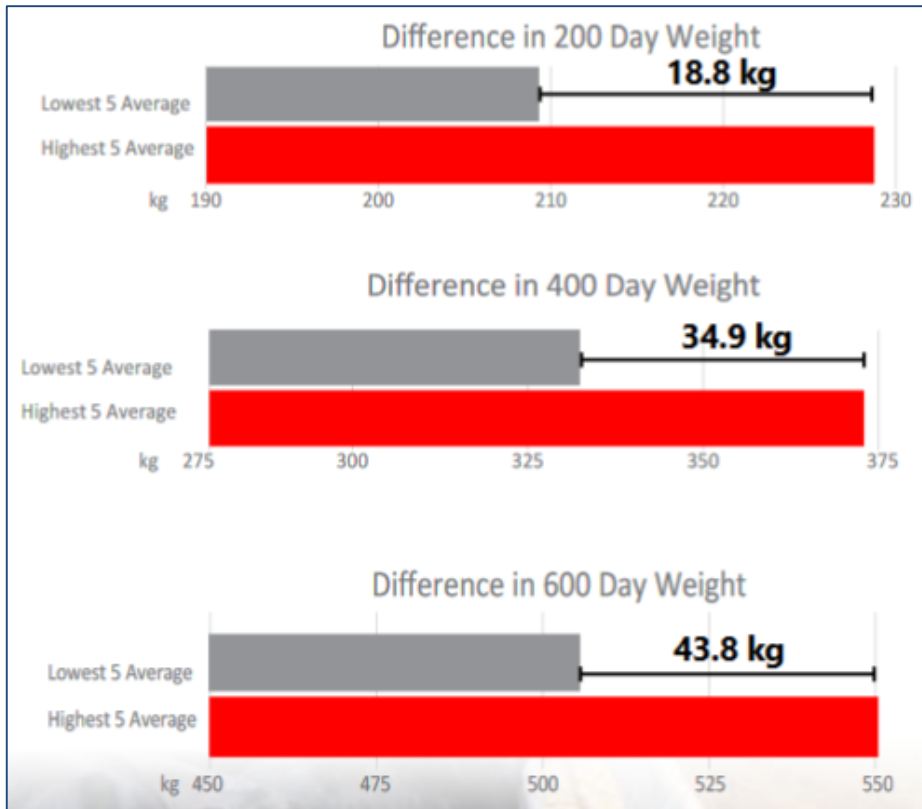


TABLE 2: Difference between average progeny performance of highest five and lowest five performing sires for growth traits (200, 400 and 600 days)

	200 Day Weight	400 Day Weight	600 Day Weight
Cohort 1	15.7 kg	28.4 kg	35.6 kg
Cohort 2	23.3 kg	35.0 kg	44.8 kg
Cohort 3	17.4 kg	41.3 kg	51.1 kg
Average	18.8 kg	34.9 kg	43.8 kg

Traits

- *200 Day Weight*
- *400 Day Weight*
- *600 Day Weight*



Variation in Net Feed Intake - Feedlot

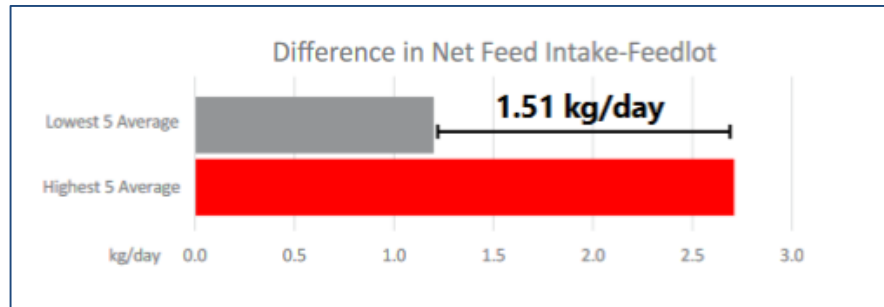
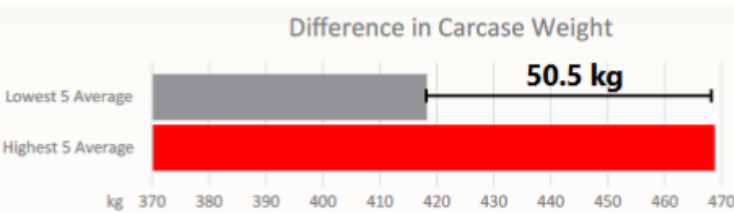
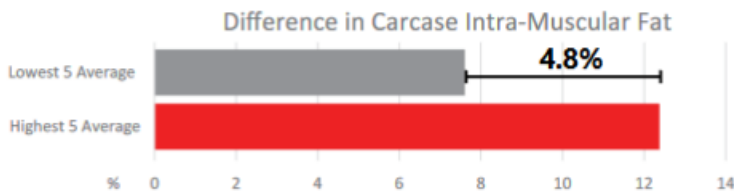
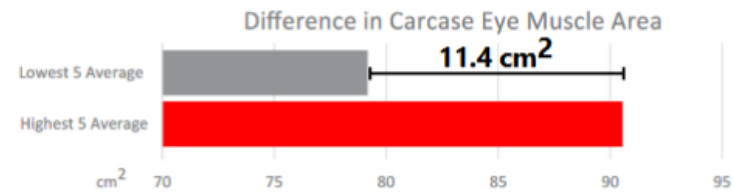
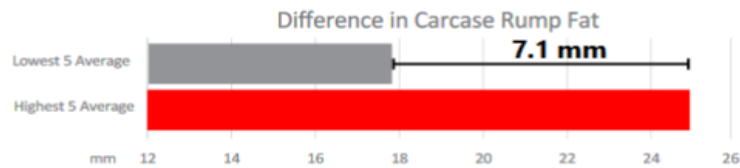
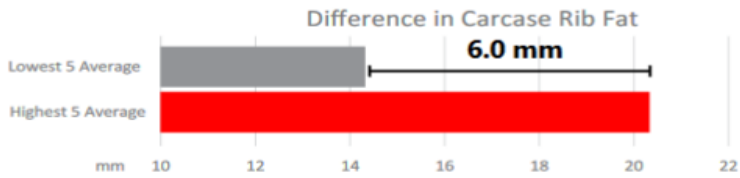


TABLE 3: Difference between average progeny performance of highest five and lowest five performing sires for Net Feed Intake - Feedlot

	Net Feed Intake - Feedlot
Cohort 1	1.24 kg/day
Cohort 2	1.70 kg/day
Cohort 3	1.58 kg/day
Average	1.51 kg/day



Variation in Carcass Composition





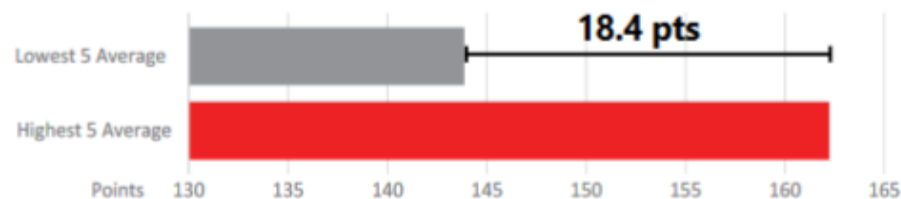
Variation in Carcase Quality



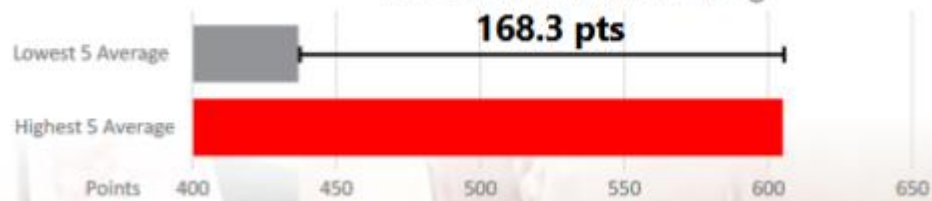
Difference in Shear Force



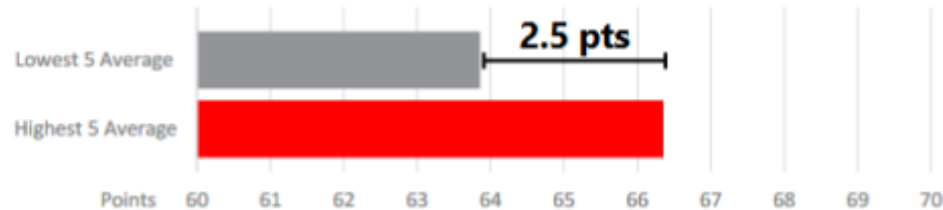
Difference in MSA Ossification



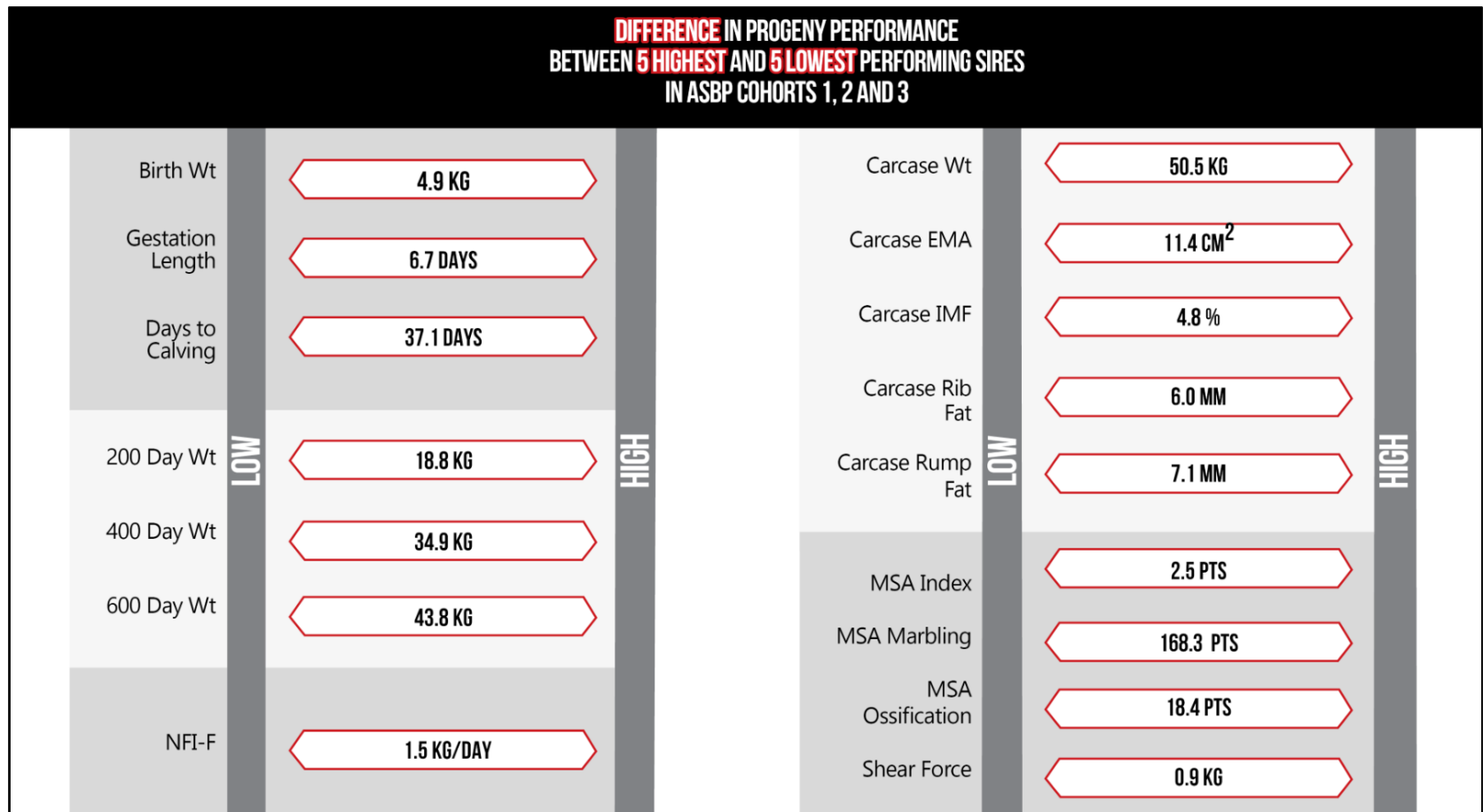
Difference in MSA Marbling



Difference in MSA Index



There is a significant amount of genetic variation between animals within the angus population.



This variation presents an opportunity to improve the **productivity** and **profitability** of Angus enterprises by **utilising better genetics.**



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' and 'AUSTRALIA' below it) and the tagline 'Enhancing & Promoting the value of Angus'. Below this is a large red banner for 'ANGUS | PRODUCER SPOTLIGHT' featuring Bruce Derryhouse. The banner includes a photo of Bruce kneeling in a field with several black Angus cows. Text on the banner states: 'BRUCE DWERRYHOUSE HAS BEEN BREEDING ANGUS CATTLE FOR 20 YEARS AND IS IMPRESSED WITH THE BREED'S EVENNESS, MOTHERING ABILITY AND GROWTH RATE.' Below this, it says '"SUNSHINE", GLENELLEN, NORTH OF ALBURY' and '#ANGUSPREMIUM'. A quote from Bruce is displayed in a white box: '"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 banner is a navigation menu with links for ABOUT, NEWS & EVENTS, MEMBERS, REGISTRATIONS, BREEDPLAN, BREEDING, MARKETING, EXPORT, SIRE BENCHMARKING (highlighted in yellow), ANGUS FOUNDATION, and ANGUS YOUTH. The main content area is divided into three columns: 'ABOUT' with links for General Information, Consultative Committee, and Bull Nominations; 'SIRE COHORTS' with links for First Cohort through Seventh Cohort; and 'LESSONS FROM THE ASBP' with links for Project Overview and Capitalising on genetic variation.