Jessons from the Angus Sire

# Angus Sire Benchmarking Program

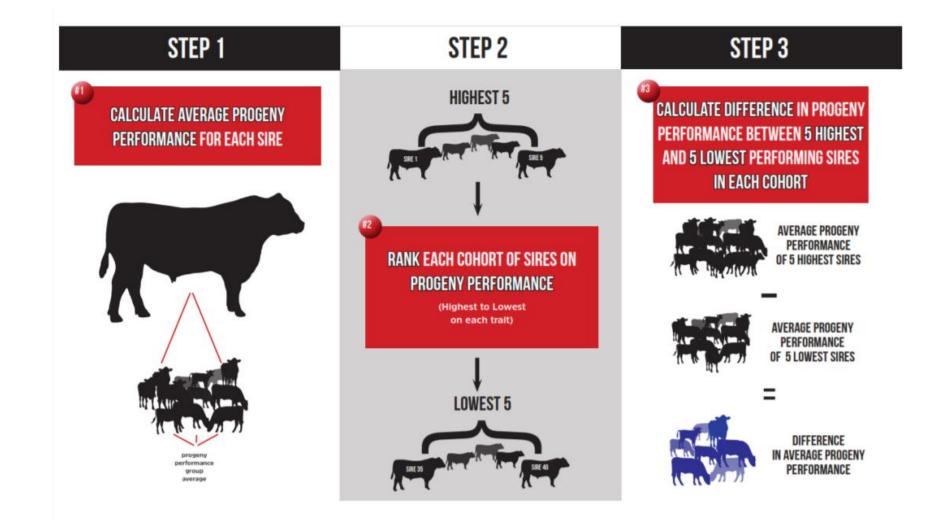
# CAPITALISING ON THE GENETIC VARIATION BETWEEN ANGUS ANIMALS





# How much genetic variation exists between Angus Animals?



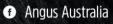


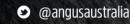




There is a significant amount of genetic variation between animals within the Angus population





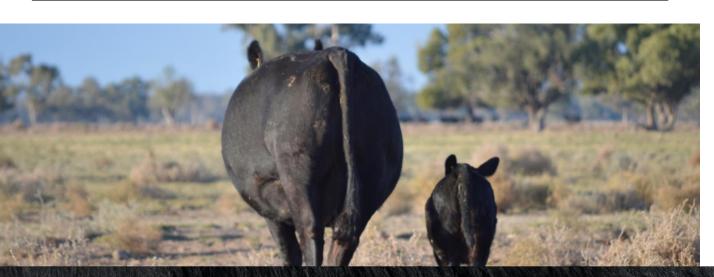




# **Variation in Fertility Traits**

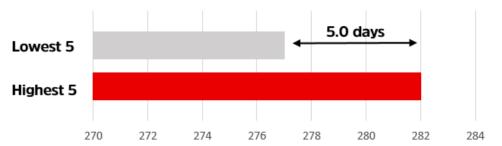
# Table 1 : Difference between average progeny performance of highest five and lowest five performing sires for birth and maternal traits

	Birth Weight	Gestation Length	Days to Calving
Cohort 5	4.9 kg	5.7 days	21 days
Cohort 6	4.6 kg	5.3 days	18 days
Cohort 7	3.8 kg	4.0 days	37 days
Average	4.4 kg	5.0 days	25 days

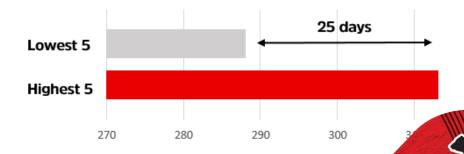


# Lowest 5 Highest 5

### **Difference in Gestation Length**



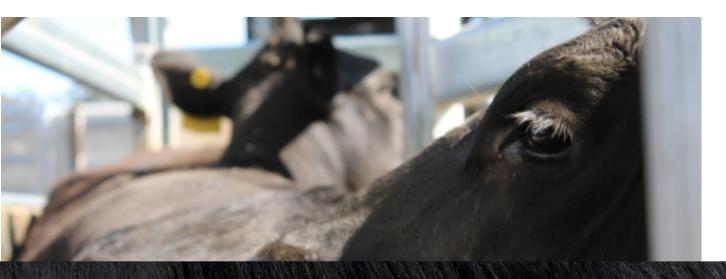
### Difference in Days to Calving



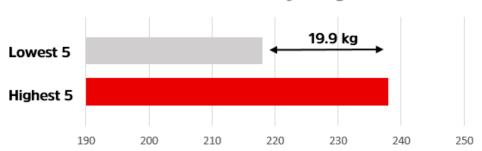
### **Variation in Growth Traits**

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

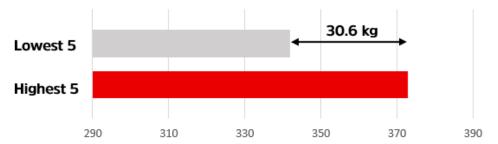
	200 Day Weight	400 Day Weight	600 Day Weight
Cohort 5	22.8 kg	32.7 kg	61.1 kg
Cohort 6	18.0 kg	28.4 kg	49.8 kg
Cohort 7	19.0 kg	30.8 kg	46.2 kg
Average	19.9 kg	30.6 kg	52.3 kg



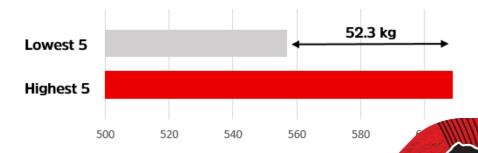
### Difference in 200 Day Weight



### Difference in 400 Day Weight



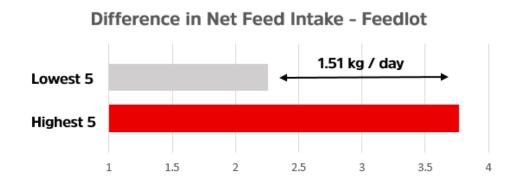
### Difference in 600 Day Weight



### **Variation in Net Feed Intake**

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 5	1.56 kg/day	
Cohort 6	1.72 kg/day	
Cohort 7	1.24 kg/day	
Average	1.51 kg/day	





### **Variation in Carcase Composition**

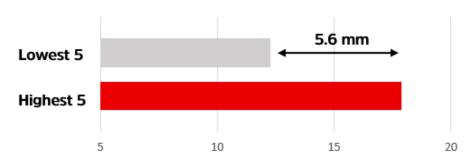
Table 4 : Difference between average progeny performance of highest five and lowest five performing sires for Carcase Composition Traits (Carcase Weight, Eye Muscle Area, Intramuscular Fat, Rib Fat, Rump Fat)

	Carcase Weight	Carcase EMA	Carcase IMF	Carcase Rib Fat	Carcase Rump
Cohort 5	48.3 kg	10.9 cm <sup>2</sup>	3.8 %	7.8 mm	7.4 mm
Cohort 6	50.5 kg	10.6 cm <sup>2</sup>	4.2 %	4.4 mm	5.7 mm
Cohort 7	40.4 kg	6.7 cm <sup>2</sup>	3.5 %	4.6 mm	7.3 mm
Average	46.4 kg	9.4 cm²	3.8 %	5.6 mm	6.8 mm

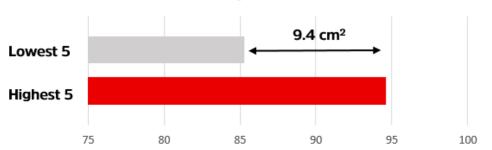


# Difference in Carcase Weight Lowest 5 Highest 5 350 370 390 410 430 450 470

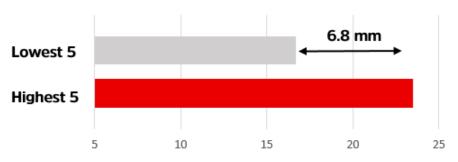
#### Difference in Carcase Rib Fat



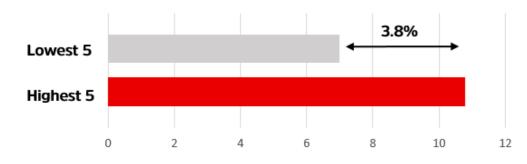




### **Difference in Carcase Rump Fat**



#### Difference in Intramuscular Fat





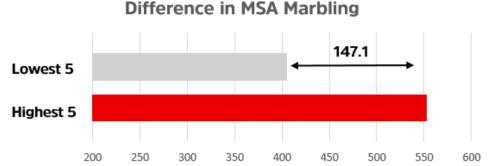
### **Variation in Carcase Quality**

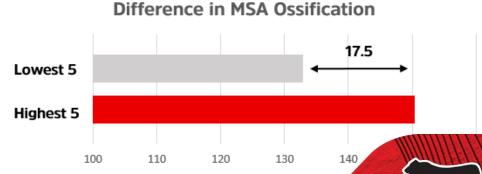
Table 5 : Difference between average progeny performance of highest five and lowest five performing sires for Carcase Quality traits

	MSA Index	MSA Marbling	MSA Ossification
Cohort 5	2.5	154.6	20.8
Cohort 6	2.2	148.2	16.4
Cohort 7	2.0	138.5	15.4
Average	2.2	147.1	17.5



# Lowest 5 Highest 5





# 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





**Enhancing & Promoting** the value of Angus

Search for an animal by ID.

e.g. ABCZ123

# HOW DO YOU **REALLY KNOW** IT'S ANGUS



ABOUT \* NEWS & EVENTS \* MEMBERS \* REGISTRATIONS \* TACE \* BREEDING \* ANGUS.TECH MARKETING \* EXPORT \* SIRE BENCHMARKING \* ANGUS BEEF BRANDS \* YOUTH

#### **ABOUT**

General Information

Consultative Committee

**Bull Nominations** 

#### SIRE COHORTS

First Cohort

Second Cohort

Third Cohort

Fourth Cohort

Fifth Cohort

Sixth Cohort

Seventh Cohort

Eighth Cohort

Ninth Cohort

#### LESSONS FROM THE ASBP

Project Overview

Capitalising on genetic variation

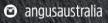
EBVs reliably predict progeny performa

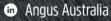
Starting vs. Finishing EBVs

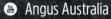
Individual Sire EBV Changes

**CLICK HERE** 











Angus Australia gratefully acknowledges the co-funding contribution of the Meat & Livestock Australia Donor Company

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