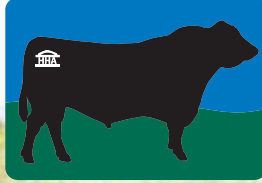


**HARDHAT**



**ANGUS**

# ANNUAL BULL SALE

20 two year old bulls  
9 yearling sires 14 - 19 months old



Lot 21

DKK21S75 - Sire: Sitz Stellar



Lot 3

DKKR83 - Sire: Rennylea Kodak K522



Lot 9

DKKR65 - Sire: SS Niagara



Lot 11

DKKR84 - Sire: Rennylea Kodak K522

Thursday 15th September 2022 - 1pm - Harden Showground Cattle Shed  
Auction Sale Interfaced with  AuctionsPlus

**Where cows that LAST breed bulls that LAST!**

Brad Cavanagh | M: 0428 638 384 | E: bcavanagh1984@gmail.com



Reference Sire - Hardhat Renown F143 N21



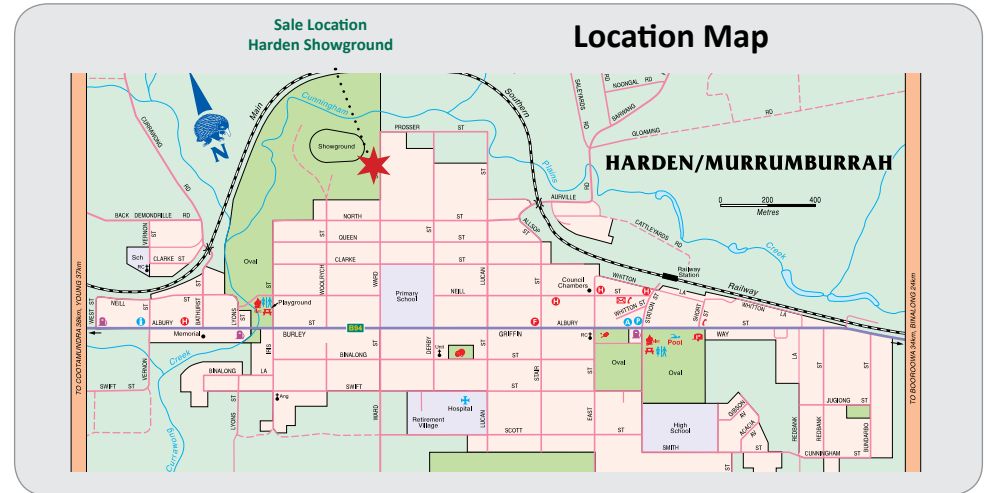
# ANNUAL BULL SALE

20 two year old bulls

9 yearling sires 14 - 19 months old

Thursday 15th September 2022

1pm - Harden Showground Cattle Shed



Lot 1



Lot 2



Lot 4



Lot 12



### Contact Information

Hardhat Angus - Brad Cavanagh  
 Mobile 0428 638 384  
 Email: bcavanagh1984@gmail.com

### Selling Agents



Aaron Seaman's Strategic Livestock Marketing  
 Aaron Seaman ..... 0488 915 315



Jim Hindmarsh & Co  
 Nick Harton ..... 0418 571 711



Brad, Jess, Olive, Henry & Fleur Cavanagh



Malcolm and Alana Cavanagh

## FOREWARD

Welcome to the 5th Hardhat Angus bull sale, which will be held on Thursday the 15th of September at the Harden Showground, Harden New South Wales.

Thank you for your interest in our genetics. We are extremely excited to offer 20 top of the drop two year old bulls and 9 elite yearling sires for your competition.

The sale draft has been grown out at our Harden property "Lynwood". We are very grateful to have been able to develop these bulls on grazing crop and improved pastures. The bulls will present in forward condition. We try to replicate the grass fed production systems of our area with very limited supplement. You can buy in confidence that the longevity of your bull has not been inhibited by overfeeding.

We are proud to offer you the male offspring produced from our elite cow herd. This herd has been carefully put together since our beginning in the year 2000.

Cows that last breed bulls that last!

The Hardhat Angus herd is based between Dubbo and Harden, New South Wales. We are committed to driving the functionality and low maintenance easy care nature of our herd. The seasonal variation over the past few years has placed a great environmental challenge on our cattle and our operation. We have seen severe drought followed by high rainfall years. Both extremes challenge the functionality of our cattle. Our breeding philosophy is based around combining the best cow making genetics we can find with high carcass merit sires. Our cows must thrive in a variable environment. These thriving females are the cattle our herd is focused on, moderate framed easy fleshing cows who have a structural conformation allowing them to stay productive to an old age. The selection pressure we place on the longevity of our females in turn results in male progeny who are athletic, robust and well prepared for a long working life.

Our 2022 bull draft offers some exciting genetics for your consideration. The bulls are catalogued in sire groups which gives you the opportunity to analyse how a sire line will add value to your herd in different areas.



Rennylea Kodak K522

The fourth calf crop of our resident herd sire Rennylea Kodak K522 will be one of the feature sire groups. Kodak has proven to be a great asset to the beef



industry as a whole. He has given us elite calving ease both directly and to his daughters. He provides well above breed average growth as well as breed leading fertility measures in both scrotal measures and days to calving. He provides highly positive rib fat which has been a great attribute over the past few years, where female fat stores have been under sustained pressure. He is a top 4% marbling bull giving him the ability to positively shift marbling averages across commercial herds where marbling premiums are beginning to become reality. As important as any of his qualities is his ability to improve foot claw set. Kodak in the flesh has an extremely long body and tremendous neck extension and shoulder set. His athletic movement reflects his great joint flexibility which is of high importance when trying to get an extended working life from your bull investment.

Kodak K522 died in August this year as an 8 year old bull. His semen and resulting progeny will be in limited supply into the future. We are extremely proud to have found Kodak, he will have a lasting impact on our herd. He now has over 1500 registered progeny and has been used over thousands of commercial heifers. We believe Kodak K522 is one of best Australian bred bulls of the past decade.

Brad visited Andrew Stewart at Stewart Select Angus in Indiana in 2016. In our opinion the Stewart Select cow herd was up there with the best in the US. At the time they had many Boyd New Day 454 and CA Bextor



SS Niagara



Jet SS X144 Dam of SS Niagara

daughters that were magnificent. SS Niagara is out of one of these magnificent New Day 454 cows, we had to use him! He was used as a cow making outcross sire. Two of his sons were used as yearlings over our mixed age spring calving group. Calves hitting the ground now are impressive. The two year old daughters of Niagara have calved easy this spring and look like females who will stay in our herd for many years.



SITZ STELLAR 726D

Sitz Stellar is a feature sire of 2 yearlings in this years sale. Stellar was used as a genuine muscle bull who gives great depth and width of rib shape. His progeny display great Angus breed character and we look forward to having his daughters in production. Stellar's early structural data out of the US is incredible. We now have two years worth of AI calves on the ground and embryos recently implanted. You can expect the Stellar calves to hit the ground with amazing vigour, they are standouts from birth!



Hardhat Mittagong E10



Hardhat McLaren M125

We are pleased to offer three yearling sons of Hardhat McLaren E10 M125. McLaren M125 was the best son we bred out of our text book cow Hardhat Mittagong E10 pictured above. Many thanks to Stewie and Kirsty Edwards who owned M125 (Macca) for leasing him back to us for a breeding season. A bull with a mother as good as Hardhat Mittagong E10 is an asset to any breeding program.

The best thing about this excellent line up of sale bulls is we get to keep their sisters!

I look forward to seeing you on sale day.

Kind Regards, Brad Cavanagh - 0428 638 384

## HARDHAT ANGUS GUARANTEE

Hardhat Angus places great pride in our bulls performing for their new owner.

If within 12 months from sale day your bull becomes infertile or breaks down **NOT** due to injury or disease. We will replace the bull with an appropriate replacement or give you a credit for the next Hardhat Angus bull sale. The credit amount will be less the salvage value of the bull.

We expect our bulls to last much longer than this guarantee period. Please contact Brad if you have any issues after this time. We will do our best to solve any problems. The traditional hand shake guarantee still has its place here.



## INDEPENDENT STRUCTURAL ASSESSMENT

The structural conformation of our herd is a high priority. Jim Green of Beef Excel has been evaluating our herd for structure over the past few years. Liam Cardile has recently taken over these duties.

All of our bulls are structurally assessed at 400 day while our females are structurally assessed prior to calving at 22 months. The structural data is then submitted to Angus Breedplan to produce the Structural Trait Estimated Breeding Values. We have found this data to be very informing and accurate in analysing the genetic value of an animal's structure.

## ANGUS SIRE BENCHMARKING PROGRAM (ASBP)

Hardhat Angus is a strong supporter of the Angus Sire Benchmarking Program. It has been a great tool to not only benchmark Angus genetics but also to incorporate cutting edge research projects on a trial population who are fully phenotyped and genotyped. We look forward to receiving the data on our bulls each time they are released.

Our bulls currently in the Angus Sire Benchmarking Program include;

- ✓ Hardhat GM Grass Range Y21 J518 (Cohort 6)
- ✓ Hardhat GM Agronomist Y21 J516 (Cohort 6)
- ✓ Rennylea Kodak K522 (Cohort 7)
- ✓ Hardhat GM Grass King Y21 K15 (Cohort 7)
- ✓ Hardhat RES Michelin J536 M56 (Cohort 8)
- ✓ Hardhat H708 Maimuru J51 M41 (Cohort 9 and 10)
- ✓ Hardhat K522 Nebraska F143 N43 (Cohort 10)
- ✓ Hardhat KOD PUNCH M5 P156 (Cohort 11)
- ✓ Hardhat K522 KODAK M33 Q110 (Cohort 12)
- ✓ Alpine Ronaldo R232 (Cohort 13)



# NEW RELEASE SIRE

## ANGUS

### Alpine Ronaldo R232



H P C A Intensity

SIRE: Rennylea N452

Rennylea Elsa Erica G366

Coonamble Junior J266

DAM: Alpine Lowan M152

Alpine Lowan J125

### NOW AVAILABLE IN MALE AND FEMALE SEXED ULTRA PLUS

Australian EBV's as of July 2022

	CED	CE DTRS	GL	BW	200	400	600	MCW	MILK	DTC	SCR	CW	EMA	RIB F	RF	RBV	IMF	NFI-F
EBV	+9.1	+6.6	-5.2	+1.0	+48	+92	+124	+98	+26	-5.7	+3.2	+73	+9.1	-2.6	-2.9	+2.3	+3.4	+0.36
RANK	5%	15%	41%	4%	58	41%	33%	55%	4%	31%	12%	27%	12%	97%	95%	4%	10%	72%

	SVALUES	RANK
FOOT ANGLE	+0.76	8%
CLAW SET	+0.72	23%
SA	\$252	7%
SA+L	\$413	7%



SCAN QR code to view video footage.

As we looked for possible sire options in 2022 the draft of bulls by Rennylea N542 at Alpine Angus really stood out to me as the best sire group of bulls on the market. This sire group had eye appeal and great data. Ronaldo R232 is an extremely athletic free striding sire. He walks on near faultless feet with 5's for claw shape and foot angle backed by highly positive genetic structural data.

He is a very long bodied bull who carries this length through his hip which we appreciate. His front end is very well put together. His refined shoulder and neck combined with genetic data for calving ease made him a bull that really fits into our program well.

We see Ronaldo R232 as having ideal growth and mature cow weight data for a self replacing program. His scrotal data suggests fertility will also be a strength of his. Ronaldo R232 is a specialist heifer bull on data and in phenotype. We see great potential for him in commercial and stud heifer AI programs. *Bradley Cavanagh, Hard Hat Angus*

**EARLY BIRD RELEASE SEMEN SPECIAL \$50.00** (MIN 25 UNITS VALID TILL AUGUST 31st 2022)  
**RRP \$55.00** (CONVENTIONAL SEMEN)



Contact your STG Australia Area Sales Manager or the STG Call Centre on FREE CALL 1800 793 465

### Animal Health

7 in 1 Vaccinations- Our bulls receive many 7 in 1 vaccinations between birth and Sale. These include at 3 months, at weaning, at 400 days and the one in March 2022 before we develop bulls on grazing crops.

Vibriosis- The bulls have received 2 Vibrio vaccinations prior to the sale. They will be due for their annual booster in May each year.

Pestivirus- All bulls in the sale are either hair tested negative for persistently infected pestivirus. Bulls have also had two Pestigard vaccinations prior to the sale. An annual booster is due in May each year.

J BAS 6 – The Hardhat Angus herd is J BAS 6.

Please ensure your bulls stay up to date with their annual vaccination program. A 7 in 1 vaccination, as well as a Pestigard and Vibriovax. We normally give an annual booster prior to each spring joining season.

### Pre Sale Vet Check

All bulls are crush side semen motility tested by Holbrook Vet Centre. Included in this pre sale inspection is a Physical reproductive examination (testicular palpation and measurement, penile inspection, temperament and structural soundness assessment).

### Semen Interest

The purchaser of the bull owns 100% possession of the bull.

Hardhat Angus retains a 50% semen interest in all bulls within the Sale. This allows Hardhat Angus the right to have semen collected at our cost at a time and place suitable for the bull owner. If any semen is sold Hardhat Angus has the right to 50% of Semen proceeds.

## UNDERSTANDING ANGUS BREEDPLAN EBVs

### What is Angus BREEDPLAN?

Angus BREEDPLAN is the genetic evaluation program adopted by Angus Australia for Angus and Angus influenced beef cattle. Angus BREEDPLAN uses Best Linear Unbiased Prediction (BLUP) technology to produce Estimated Breeding Values (EBVs) of recorded cattle for a range of important production traits (e.g. weight, carcass, fertility).

Angus BREEDPLAN includes pedigree, performance and genomic information from the Angus Australia and New Zealand Angus Association databases to evaluate the genetics of animals across Australia and New Zealand.

Angus BREEDPLAN analyses are conducted by the Agricultural Business Research Institute (ABRI), using software developed by the Animal Genetics and Breeding Unit (AGBU), a joint institute of NSW Agriculture and the University of New England. Ongoing BREEDPLAN research and development is supported by Meat and Livestock Australia.

### What is an EBV?

An animal's breeding value can be defined as its genetic merit for each trait. While it is not possible to determine an animal's true breeding value, it is possible to estimate it. These estimates of an animal's true breeding value are called EBVs (Estimated Breeding Values).

### Using EBVs to Compare the Genetics of Two Animals

Angus BREEDPLAN EBVs can be used to estimate the expected difference in the genetics of two animals, with the expected difference equating to half the difference in the EBVs of the animals, all other things being equal (e.g. they are joined to the same animal/s).

For example, a bull with a 200 Day Growth EBV of +60 would be expected to produce progeny that are, on average, 10 kg heavier at 200 days of age than a bull with a 200 Day Growth EBV of +40 kg (i.e. 20 kg difference between the sire's EBVs, then halved as the sire only contributes half the genetics).

Or similarly, a bull with an IMF EBV of +3.0 would be expected to produce progeny with on average, 1% more intramuscular fat in a 400 kg carcass than a bull with a IMF EBV of +1.0 (i.e. 2% difference between the sire's EBVs, then halved as the sire only contributes half the genetics).

### Using EBVs to Benchmark an Animal's Genetics with the Breed

EBVs can also be used to benchmark an animal's genetics relative to the genetics of other Angus or Angus infused animals in Australia and New Zealand.

To benchmark an animal's genetics relative to other Angus animals, an animal's EBV can be compared to:

- the breed average EBV
- the percentile table

The current breed average EBV and percentile table is provided in these explanatory notes.

### Considering Accuracy

An accuracy value is published in association with each EBV, which is usually displayed as a percentage value immediately below the EBV.

The accuracy value provides an indication of the reliability of the EBV in estimating the animal's genetics (or true breeding value), and is an indication of the amount of information that has been used in the calculation of the EBV.

EBVs with accuracy values below 50% should be considered as preliminary or of low accuracy, 50- 74% as of medium accuracy, 75-90% of medium to high accuracy, and 90% or greater as high accuracy.

### Description of Angus BREEDPLAN EBVs

EBVs are calculated for a range of traits within Angus BREEDPLAN, covering calving ease, growth, fertility, maternal performance, carcass merit, feed efficiency and structural soundness. A description of each EBV included in this sale catalogue is provided on the following pages.



## 1. UPON ARRIVAL:

- a) Ensure your new bulls socialises with a group of animals, (anything except other bulls) in the yards, when they arrive.
- b) Run the new bulls with a small group of empty females, (he has come from a different herd and may not have had exposure to some of the normal pathogens present in your herd – see further information below).
  - i. **This MUST be done with the empty females, for a period of 2 to 4 weeks.** Ideally the bull can then be rested for 6-8 weeks prior to joining.
  - ii. **Ideally give the cows prostaglandin every 2 weeks so they continue to cycle.**
- c) Ideally bulls should be insured for their first year as standard.

## 2. PRE-JOINING:

- a) We recommend a breeding soundness examination (BSE), including structural assessment, testicular palpation, service ability testing and semen testing (essential in single sire matings). This is mandatory for second joining and older bulls each year. It will improve the fertility performance of the herd, by removing infertile bulls from the joining group. If bulls are not service tested it is essential that you observe the bulls serve in the first week on joining.
  - i. These bulls will be given a risk rating and mating potential which will influence joining bull teams.
- b) **Keep vaccinations up to date;** Vibrovax, Leptospirosis 7-in-1, Pestigard and an annual drench, 4-6 weeks prior to joining.

## 3. JOINING - new bulls have the highest risk of breakdown in the herd, this risk can be reduced by:

- a) **PROTECT a new bull by not over-joining, 30 females per virgin bull maximum.**
- b) **Recommended to multi-sire join.**
  - i. Ideally mixing bulls of different age groups, experience levels and risk ratings.
- c) **It is recommended, IF single sire joining with a new bull, to rotate him with a proven bull for at least one cycle. Also, it is good practice to rotate proven bulls for the last cycle with all new bulls.**

**“Most new bull fertility issues develop or are acquired during the joining period, rather than being pre-existing problems, this means that bull observation during the joining period is essential!**

### **ONCE THE JOINING PROGRAM IS SET UP, MONITORING IS ESSENTIAL TO IDENTIFY ISSUES AS THEY DEVELOP.**

Your new bulls need to be run in mobs that are easily monitored, keep them close to promote observation, check them 2 to 3 times a week for the first three weeks and then weekly thereafter. This involves looking for,

1. The bull serving, (this has not been successful until the bull thrusts). If bulls are continually mounting without serving it is often a sign the bull has developed a penile infection and needs to be rested and replaced immediately. Sound bulls should serve every 1 to 2 mounts.
2. Lameness.
3. Evidence of penile or preputial swelling or inflammation.
4. Signs of ill health, lethargy, etc.
5. Estimate the number of females cycling, (for every 20 females, one cycles each day at the commencement of joining). After three weeks of joining, there should only be one cow cycling every three days in 20 females.

## 4. POST-JOINING:

- a. **Annual breeding soundness evaluation is a non-negotiable procedure.**
  - b. Good management of bulls is a year-round procedure.
    - i. Keep bulls in working body condition – they should be in body condition score 3/5 at the start of mating, which will involve removing weight following the joining period.
    - ii. Manage bulls in groups of joining teams to establish stable social hierarchies and minimise bull fighting.
- ✓ Bulls need to be removed from the cows at the same time, to help create their bull mobs. This will limit the number of potential injuries by reducing the number of bull interactions.
  - ✓ Bull paddock management is very important to minimise injury between joinings. The bulls need enough room to reduce fighting, restricted feed and water will increase interaction. Paddocks will require co-grazing with sheep, or crash-grazing by other mobs to manage feed quality and quantity on offer for the bulls.
  - ✓ The target between joining is to restrict weight gain in older bulls to prevent breakdowns. Ideally young bulls have access to a higher level of nutrition as they continue to grow.
  - ✓ Early pregnancy testing is essential for good female management and detection of surprises. The earlier the pregnancy testing is undertaken, the more likely the cause of the problem will be identified. This will not only give you early notice of the problem but also help in formulating a plan to help reduce the chance of the problem occurring again in the future.

### **PENILE INFECTIONS IN BULLS – “Balanoposthitis”:**

Penile infections are a common disease in young bulls during their first joining season in any new herd. Mitigating the risk of this disease as outlined above is essential to reduce the number of breakdowns and optimise bull cost per calf.

These infections are caused by a range of bacterial, viral, and other organisms (“pathogens”). The genital form of infectious bovine rhinotracheitis (IBR; herpes virus) is commonly implicated. The issue is that any given property has its own population of reproductive tract pathogens and if the new bulls make their first contact with these pathogens at the time of high workload (such as joining) they are at a high risk of developing a penile injury.

These injuries typically involve a reddened inflamed penis, developing to ulceration and pustules. Some bulls will stop serving due to pain (will continue to mount, but not serve), but other high libido bulls will continue to serve and create significant inflammation commonly leading to preputial tears, abscesses and prolapses. These are often perceived to be a “broken penis”, which they are not and **IF treated promptly may regain normal function!**

Treatment involves prompt removal of the affected bull from the joining mob, sexual rest (typically for the remainder of the joining) and treatment with antibiotics and anti-inflammatories. Preputial prolapses require surgical replacement.

If undetected these injuries commonly cause a significant decrease in pregnancy rate and commonly result in permanent infertility in the bull. **Observation and intervention are essential!**

Prevention of this condition is best achieved as outlined above, by deliberate pre-exposure of new bulls to a small number of females (low workload) well before the joining so that they are exposed and can develop immunity to the herds’ pathogens prior to the high workload of the joining period.

Positive fertility outcomes are a significant driver of profitability in beef breeding enterprises, but this requires informed and active management!

Dr. Shane P. Thomson. BVetBio. BVSc. MAnSc. | HVC Production & Breeding.

BIRTH			
<b>Calving Ease Direct</b>	(%)	Genetic differences in the ability of a sire's calves to be born unassisted from 2 year old heifers.	Higher EBVs indicate fewer calving difficulties in 2 year old heifers.
<b>Calving Ease Daughters</b>	(%)	Genetic differences in the ability of a sire's daughters to calve unassisted at 2 years of age.	Higher EBVs indicate fewer calving difficulties in 2 year old heifers.
<b>Gestation Length</b>	days	Genetic differences between animals in the length of time from the date of conception to the birth of the calf.	Lower EBVs indicate shorter gestation length.
<b>Birth Weight</b>	kg	Genetic differences between animals in calf weight at birth.	Lower EBVs indicate lighter birth weight.

GROWTH			
<b>200 Day Growth</b>	kg	Genetic differences between animals in live weight at 200 days of age due to genetics for growth.	Higher EBVs indicate heavier live weight.
<b>400 Day Weight</b>	kg	Genetic differences between animals in live weight at 400 days of age.	Higher EBVs indicate heavier live weight.
<b>600 Day Weight</b>	kg	Genetic differences between animals in live weight at 600 days of age.	Higher EBVs indicate heavier live weight.
<b>Mature Cow Weight</b>	kg	Genetic differences between animals in live weight of cows at 5 years of age.	Higher EBVs indicate heavier mature weight.
<b>Milk</b>	kg	Genetic differences between animals in live weight at 200 days of age due to the maternal contribution of its dam.	Higher EBVs indicate heavier live weight.

FERTILITY			
<b>Days to Calving</b>	kg	Genetic differences between animals in the time from the start of the joining period (i.e. when the female is introduced to a bull) until subsequent calving.	Lower EBVs indicate shorter time to calving.
<b>Scrotal Size</b>	cm	Genetic differences between animals in scrotal circumference at 400 days of age.	Higher EBVs indicate larger scrotal circumference.

CARCASE			
<b>Carcase Weight</b>	kg	Genetic differences between animals in hot standard carcase weight at 750 days of age.	Higher EBVs indicate heavier carcase weight.
<b>Eye Muscle Area</b>	cm <sup>2</sup>	Genetic differences between animals in eye muscle area at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate larger eye muscle area.
<b>Rib Fat</b>	mm	Genetic differences between animals in fat depth at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate more fat.
<b>Rump Fat</b>	mm	Genetic differences between animals in fat depth at the P8 rump site in a 400 kg carcase.	Higher EBVs indicate more fat.
<b>Retail Beef Yield</b>	%	Genetic differences between animals in boned out saleable meat from a 400 kg carcase.	Higher EBVs indicate higher yield.
<b>Intramuscular Fat</b>	%	Genetic differences between animals in intramuscular fat (marbling) at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate more intramuscular fat.

FEED EFFICIENCY			
<b>Net Feed Intake (Post Weaning)</b>	kg/day	Genetic differences between animals in feed intake at a standard weight and rate of weight gain when animals are in a growing phase.	Lower EBVs indicate more feed efficiency.

<b>Net Feed Intake (Feedlot)</b>	kg/day	Genetic differences between animals in feed intake at a standard weight and rate of weight gain when animals are in a feedlot finishing phase.	Lower EBVs indicate more feed efficiency.
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TEMPERAMENT			
<b>Docility</b>	%	Genetic differences between animals in temperament.	Higher EBVs indicate better temperament.

STRUCTURE			
<b>Front Feet Angle</b>	%	Genetic differences between animals in desirable front feet angle (strength of pastern, depth of heel).	Higher EBVs indicate more desirable structure.
<b>Front Feet Claw Set</b>	%	Genetic differences between animals in desirable front feet claw set structure (shape and evenness of claw).	Higher EBVs indicate more desirable structure.
<b>Rear Feet Angle</b>	%	Genetic differences between animals in desirable rear feet angle (strength of pastern, depth of heel).	Higher EBVs indicate more desirable structure.
<b>Rear Leg Hind View</b>	%	Genetic differences between animals in desirable rear leg structure when viewed from behind.	Higher EBVs indicate more desirable structure.
<b>Rear Leg Side View</b>	%	Genetic differences between animals in desirable rear leg structure when viewed from the side.	Higher EBVs indicate more desirable structure.

SELECTION INDEXES			
<b>Angus Breeding Index</b>	\$	Genetic differences between animals in net profitability per cow joined in a typical commercial self replacing herd using Angus bulls. This selection index is not specific to a particular production system or market end-point, but identifies animals that will improve overall profitability in the majority of commercial grass and grain finishing beef production systems.	Higher selection index values indicate greater profitability.
<b>Domestic Index</b>	\$	Genetic differences between animals in net profitability per cow joined in a commercial self replacing herd targeting the domestic supermarket trade.	Higher selection index values indicate greater profitability.
<b>Heavy Grain Index</b>	\$	Genetic differences between animals in net profitability per cow joined in a commercial self replacing herd targeting pasture grown steers with a 200 day feedlot finishing period for the grain fed high quality, highly marbled markets.	Higher selection index values indicate greater profitability.
<b>Heavy Grass Index</b>	\$	Genetic differences between animals in net profitability per cow joined in a commercial self replacing herd targeting pasture finished steers.	Higher selection index values indicate greater profitability.



# RECESSIVE GENETIC CONDITIONS

## INFORMATION FOR BULL BUYERS

This is information for bull buyers about the recessive genetic conditions, Arthrogyrosis Multiplex (AM), Hydrocephalus (NH), Contractural Arachnodactyly (CA) and Developmental Duplications (DD).

### Putting undesirable Genetic Recessive Conditions in perspective

All animals, including humans, carry single copies (alleles) of undesirable or “broken” genes. In single copy form, these undesirable alleles usually cause no harm to the individual. But when animals carry 2 copies of certain undesirable or “broken” alleles it often results in bad consequences. Advances in genomics have facilitated the development of accurate diagnostic tests to enable the identification and management of numerous undesirable or “broken” genes. Angus Australia is proactive in providing its members and their clients with relevant tools and information to assist them in the management of known undesirable genes and our members are leading the industry in their use of this technology.

**Key point: With today’s DNA tools undesirable genetic conditions can be managed!**

### What are AM, NH, CA and DD?

AM, NH, CA and DD are all recessive conditions caused by “broken” alleles within the DNA of individual animals. When a calf inherits 2 copies of the AM or NH alleles their development is so adversely affected that they will be still-born.

In other cases, such as CA and DD, calves carrying 2 copies of the broken allele may reach full-term. In such cases the animal may either appear relatively normal, or show physical symptoms that affect their health and/or performance.

**Key point: The number of reported observations of AM, NH, CA and DD calves is very low and there is certainly no need for panic.**

### How are the conditions inherited?

Research in the U.S. and Australia indicates that AM, NH, CA and DD are simply inherited recessive conditions. This means that a single gene (or pair of alleles) controls the condition. For this mode of inheritance two copies of the undesirable allele need to be present before the condition is seen; in which case you may get an abnormal calf. A more common example of a trait with a simple recessive pattern of inheritance is black and red coat colour.

Animals with only one copy of the undesirable allele (and one copy of the normal form of the allele) appear normal and are known as “carriers”.

### What happens when carriers are mated to other animals?

Carriers, will on average, pass the undesirable allele to a random half (50 %) of their progeny.

If animals tested free of the undesirable gene are mated to carrier animals the condition will not be expressed at all. All calves will appear normal, but approximately half (50%) could be expected to be carriers.

**Key point: For the condition to be expressed the undesirable gene needs to be present on both sides of the pedigree and both the sire and dam need to be a carrier.**

### How is the genetic status of animals reported?

DNA-based diagnostic tests have been developed which can be used to determine whether an individual animal is either a carrier or free of the alleles resulting in AM, NH, CA or DD.

Angus Australia uses advanced software to calculate the probability of (untested) animals to being carriers of AM, NH, CA or DD. The software uses the test results of any relatives in the calculations and the probabilities may change as new results for additional animals become available.

The genetic status of animals is being reported using five categories:

AMF	Tested AM free
AMFU	Based on pedigree AM free – Animal has not been tested
AM__%	__% probability the animal is an AM carrier
AMC	Tested AM-Carrier
AMA	AM-Affected

For NH, CA and DD, simply replace AM in the above table with NH, CA or DD.

Registration certificates and the Angus Australia web-database display these codes. This information is displayed on the animal details page and can be accessed by conducting an “Animal Search” from the Angus Australia website or looking up individual animals listed in a sale catalogue.

**Key point: The genetic status of an animal is subject to change and will be re-analysed and adjusted each week as DNA test results of relatives are received.**

### Implications for Commercial Producers

Your decision on the importance of the genetic condition status of replacement bulls should depend on the genetics of your cow herd (which bulls you previously used) and whether some female progeny will be retained or sold as breeders.

Most Angus breeders are proactive and transparent in managing known genetic conditions, endeavouring to provide the best information available. The greatest risk to the commercial sector from undesirable genetic recessive conditions comes from unregistered bulls with unknown genetic background. The genetic condition testing that Angus Australia seedstock producers are investing in provides buyers of registered Angus bulls with unmatched quality assurance.

For further information contact Angus Australia’s Breed Development and Innovation Manager at (02) 6773 4602





REFERENCE SIRES

RS

G A R PHOENIX<sup>PV</sup>

HBR

Ident: USA18636106 MYYTY IN FOCUS<sup>#</sup> Mating Type: ET DOB: 15/08/2016  
 CONNEALY IN SURE 8524<sup>#</sup> ENTREENA OF CONANGA 657<sup>#</sup>  
 Sire: USA17328461 G A R SURE FIRE<sup>SV</sup> \$Index Values  
 G A R NEW DESIGN 5050<sup>#</sup> \$A \$D \$GN \$GS  
 CHAIR ROCK 5050 G A R 8086<sup>#</sup> \$326 \$271 \$434 \$317  
 CHAIR ROCK GRID MAKER 2107<sup>#</sup> AMF,CAF,DDF,NHF,DWF,MAF,MHF,OHF,OSF,RGF  
 C R A BEXTOR 872 5205 608<sup>#</sup> Traits Observed: Genomics  
 G A R PROPHET<sup>SV</sup> G A R OBJECTIVE 1885<sup>#</sup>  
 Dam: USA18127279 G A R PROPHET N744<sup>#</sup> MCC DAYBREAK<sup>#</sup>  
 G A R DAYBREAK 440<sup>#</sup> G A R YIELD GRADE N76<sup>#</sup>



Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
EBV's	+8.5	+3.9	-3.9	+2.8	+73	+127	+165	+135	+19
Acc	80%	67%	98%	98%	97%	97%	96%	91%	87%
SC	DC	CWT	EMA	Rib	Rump	RBV	IMF%	NFI-F	DOC
+4.4	-5.6	+97	+9.8	-1.2	-1.7	+2.8	+2.9	+0.12	+15
96%	58%	87%	88%	88%	85%	84%	86%	78%	89%

Statistics: Number of Herds: 75, Prog Analysed: 905, Genomic Prog: 544

REFERENCE SIRES

RS

HARDHAT 2138 MACLAREN E10 M125<sup>PV</sup>

HBR

Ident: DKKM125 MYYTY IN FOCUS<sup>#</sup> Mating Type: ET DOB: 21/08/2016  
 A A R TEN X 7008 S A<sup>SV</sup> A A R LADY KELTON 5551<sup>#</sup>  
 Sire: USA17307074 DEER VALLEY ALL IN<sup>SV</sup> \$Index Values  
 SITZ UPWARD 307R<sup>SV</sup> \$A \$D \$GN \$GS  
 DEER VALLEY RITA 0274<sup>#</sup> \$236 \$187 \$323 \$222  
 G A R OBJECTIVE 2345<sup>#</sup> AMF,U,CAFU,DDFU,NHFU  
 BOOROOMOOKA UNDERTAKEN U170<sup>PV</sup> Traits Observed:  
 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> BWT,200WT,400WT,600WT,SC,  
 BOOROOMOOKA UAAISE U101<sup>SV</sup> Scan(EMA,Rib,Rump,IMF),DOC,Structure(-  
 S A F 598 BANDO 5175<sup>#</sup> Claw Set x 1, Foot Angle x 1),Genomics  
 KENNY'S CREEK MITTAGONG C75<sup>SV</sup>  
 TE MANIA MITTAGONG V254<sup>#</sup>



Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
EBV's	-0.7	+9.2	-5.0	+3.2	+47	+90	+115	+65	+20
Acc	65%	60%	73%	76%	73%	73%	74%	72%	69%
SC	DC	CWT	EMA	Rib	Rump	RBV	IMF%	NFI-F	DOC
+1.2	-4.1	+58	+2.3	-0.4	-1.7	-0.1	+3.6	+0.37	+0
73%	51%	70%	67%	71%	69%	69%	67%	60%	58%

Statistics: Number of Herds: 1, Prog Analysed: 5, Genomic Prog: 0

RS

G A R QUANTUM<sup>PV</sup>

HBR

Ident: USA18636059 G A R PREDESTINED<sup>#</sup> Mating Type: Natural DOB: 18/08/2016  
 G A R PROGRESS<sup>SV</sup> ENTREENA OF CONANGA 657<sup>#</sup>  
 Sire: USA17354145 G A R MOMENTUM<sup>PV</sup> \$Index Values  
 ALC BIG EYE D09N<sup>#</sup> \$A \$D \$GN \$GS  
 G A R BIG EYE 1770<sup>#</sup> \$261 \$220 \$357 \$247  
 G A R OBJECTIVE 3387<sup>#</sup> AMF,CAF,DDF,NHF,DWF,MHF,OHF,OSF,RGF  
 MYYTY IN FOCUS<sup>#</sup> Traits Observed: Genomics  
 CONNEALY IN SURE 8524<sup>#</sup> G A R IN SURE 1524<sup>#</sup>  
 ENTREENA OF CONANGA 657<sup>#</sup> SUMMITCREST COMPLETE 1P55<sup>#</sup>  
 G A R COMPLETE 3011<sup>#</sup> G A R OBJECTIVE 277L<sup>#</sup>



Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
EBV's	+1.3	-0.5	-3.5	+4.6	+61	+109	+131	+101	+23
Acc	72%	60%	98%	96%	94%	94%	93%	86%	81%
SC	DC	CWT	EMA	Rib	Rump	RBV	IMF%	NFI-F	DOC
+3.3	-2.5	+84	+14.1	-1.3	-1.9	+2.2	+3.3	+0.55	-
91%	53%	85%	84%	85%	81%	81%	83%	66%	-

Statistics: Number of Herds: 3, Prog Analysed: 240, Genomic Prog: 27

RS

HARDHAT RENOWN F143 N21<sup>PV</sup>

HBR

Ident: DKKN21 R R RITO 707<sup>#</sup> Mating Type: ET DOB: 10/03/2017  
 RITO 707 OF IDEAL 3407 7075<sup>#</sup> IDEAL 3407 OF 1418 076<sup>#</sup>  
 Sire: USA17633839 S A V RENOWN 3439<sup>PV</sup> \$Index Values  
 S A V 8180 TRAVELER 004<sup>#</sup> \$A \$D \$GN \$GS  
 S A V BLACKCAP MAY 4136<sup>#</sup> \$183 \$168 \$222 \$165  
 S A V MAY 2397<sup>#</sup> AMF,U,CAFU,DDFU,NHFU  
 CONNEALY ONWARD<sup>#</sup> Traits Observed: BWT,200WT,400WT,SC,  
 SITZ UPWARD 307R<sup>SV</sup> SITZ HENRIETTA PRIDE 81M<sup>#</sup> Scan(EMA,Rib,Rump,IMF),DOC,Structure(-  
 Dam: NKLF143 KANSAS ANNIE F143<sup>SV</sup> ARDROSSAN DIRECTION W109<sup>PV</sup> Claw Set x 1, Foot Angle x 1),Genomics  
 KANSAS ANNIE C10<sup>SV</sup>  
 KANSAS ANNIE Y21<sup>SV</sup>



Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
EBV's	-8.5	-7.7	-6.9	+6.4	+63	+113	+145	+127	+15
Acc	64%	54%	72%	83%	77%	77%	76%	74%	67%
SC	DC	CWT	EMA	Rib	Rump	RBV	IMF%	NFI-F	DOC
+1.5	-3.7	+83	+6.7	+0.4	+0.6	+1.9	-1.0	-0.40	-2
77%	43%	71%	68%	71%	69%	68%	66%	58%	54%

Statistics: Number of Herds: 1, Prog Analysed: 25, Genomic Prog: 4

REFERENCE SIRES

**RS RENNYLEA H708<sup>PV</sup> APR**

Ident: NORH708 B/R NEW DESIGN 036<sup>#</sup> Mating Type: ET DOB: 07/08/2012

G A R PREDESTINED<sup>#</sup>  
G A R EXT 4206<sup>#</sup>  
Sire: **NORC511 RENNYLEA C511<sup>PV</sup>**  
B/R NEW DIMENSION 7127<sup>SV</sup>  
RENNYLEA W449<sup>SV</sup>  
RENNYLEA T329<sup>#</sup>  
TE MANIA ULONG U41<sup>SV</sup>  
TE MANIA AFRICA A217<sup>PV</sup>  
TE MANIA JEDDA Y32<sup>SV</sup>  
Dam: **NORE176 RENNYLEA E176<sup>PV</sup>**  
B/R NEW DIMENSION 7127<sup>SV</sup>  
RENNYLEA B124<sup>PV</sup>  
RENNYLEA X131<sup>SV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$205	\$158	\$307	\$198

**AMFU,CAFU,DDF,NHFU**

**Traits Observed:**  
BWT,200WT,400WT,600WT,SC,  
Scan(EMA,Rib,Rump,IMF),DOC,Genomics

**TACE** Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-3.4</b>	<b>-0.9</b>	<b>+1.2</b>	<b>+4.8</b>	<b>+48</b>	<b>+100</b>	<b>+129</b>	<b>+126</b>	<b>+13</b>
Acc	89%	78%	98%	98%	97%	97%	97%	96%	93%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.5</b>	<b>-3.7</b>	<b>+71</b>	<b>+10.5</b>	<b>-3.2</b>	<b>-5.1</b>	<b>+1.5</b>	<b>+6.3</b>	<b>+0.76</b>	<b>+11</b>
97%	75%	94%	93%	94%	93%	91%	92%	91%	97%

Statistics: Number of Herds: 25, Prog Analysed: 465, Genomic Prog: 406

**RS RENNYLEA KODAK K522<sup>SV</sup> HBR**

Ident: NORK522 BOOROOMOOKA UNDERTAKEN U170<sup>PV</sup> Mating Type: AI DOB: 11/08/2014

BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup>  
BOOROOMOOKA UAAISE U101<sup>SV</sup>  
Sire: **NORE11 RENNYLEA EDMUND E11<sup>PV</sup>**  
YTHANBRAE HENRY VIII U8<sup>SV</sup>  
LAWSONS HENRY VIII Y5<sup>SV</sup>  
YTHANBRAE DIRECTION T270<sup>#</sup>  
TE MANIA YORKSHIRE Y437<sup>PV</sup>  
TE MANIA BERKLEY B1<sup>PV</sup>  
TE MANIA LOWAN Z53<sup>#</sup>  
Dam: **NORF810 RENNYLEA EISA ERICA F810<sup>#</sup>**  
HYLINE RIGHT TIME 338<sup>#</sup>  
RENNYLEA EISA ERICA C299<sup>PV</sup>  
RENNYLEA EISA ERICA X571<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$207	\$161	\$284	\$198

**AMFU,CAFU,DDFU,NHFU**

**Traits Observed:** GL,BWT,200WT,400WT,  
600WT,SC,Scan(EMA,Rib,Rump,IMF),  
DOC,Genomics

**TACE** Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+10.6</b>	<b>+10.7</b>	<b>-5.8</b>	<b>+1.3</b>	<b>+48</b>	<b>+86</b>	<b>+114</b>	<b>+118</b>	<b>+10</b>
Acc	91%	78%	99%	98%	98%	98%	98%	96%	95%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+4.7</b>	<b>-7.2</b>	<b>+64</b>	<b>+3.4</b>	<b>+3.4</b>	<b>+1.3</b>	<b>-1.3</b>	<b>+4.0</b>	<b>+0.54</b>	<b>-8</b>
97%	71%	93%	92%	93%	92%	91%	90%	86%	95%

Statistics: Number of Herds: 73, Prog Analysed: 1520, Genomic Prog: 599

REFERENCE SIRES

**RS SITZ STELLAR 726D<sup>PV</sup> HBR**

Ident: USA18397542 H A IMAGE MAKER 0415<sup>#</sup> Mating Type: Natural DOB: 23/01/2016

BENFIELD SUBSTANCE 8506<sup>#</sup>  
BENFIELD EDELLA 1105<sup>#</sup>  
Sire: **USA17292558 MOHNEN SUBSTANTIAL 272<sup>#</sup>**  
LT TERRITORY 5824 OF EA<sup>#</sup>  
MOHNEN GLYN MAWR ELBA 1758<sup>#</sup>  
MOHNEN GLYN MAWR ELBA 1345<sup>#</sup>  
CONNEALY PRODUCT 568<sup>#</sup>  
CONNEALY FINAL PRODUCT<sup>PV</sup>  
EBONISTA OF CONANGA 471<sup>#</sup>  
Dam: **USA17776820 SITZ PRIDE 200B<sup>#</sup>**  
SITZ UPWARD 307R<sup>SV</sup>  
SITZ PRIDE 308Y<sup>#</sup>  
SITZ PRIDE 44P<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$257	\$224	\$317	\$243

**AMF,CAF,DDF,NHF,DWF,MAF,MHF,  
OHF,OSF**

**Traits Observed: Genomics**

**TACE** Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+6.7</b>	<b>+7.2</b>	<b>-9.1</b>	<b>+2.8</b>	<b>+58</b>	<b>+114</b>	<b>+147</b>	<b>+112</b>	<b>+18</b>
Acc	67%	47%	98%	97%	93%	92%	89%	83%	78%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.7</b>	<b>-6.2</b>	<b>+73</b>	<b>+7.6</b>	<b>+2.4</b>	<b>+1.4</b>	<b>+0.4</b>	<b>+1.2</b>	<b>+0.39</b>	<b>+6</b>
89%	41%	82%	80%	80%	77%	76%	76%	58%	60%

Statistics: Number of Herds: 36, Prog Analysed: 299, Genomic Prog: 60

**RS S S NIAGARA Z29<sup>SV</sup> HBR**

Ident: USA17287387 S A F CONNECTION<sup>#</sup> Mating Type: Natural DOB: 05/01/2012

SYDGEN C C & 7<sup>#</sup>  
SYDGEN FOREVER LADY 4087<sup>#</sup>  
Sire: **USA16124994 HOOVER DAM<sup>#</sup>**  
TC GRIDIRON 258<sup>#</sup>  
ERICA OF ELLSTON C124<sup>#</sup>  
ERICA OF ELLSTON V65<sup>#</sup>  
BOYD NEW DAY 8005<sup>#</sup>  
B/R NEW DAY 454<sup>#</sup>  
B/R RUBY 1224<sup>#</sup>  
Dam: **USA16715036 JET S S X144<sup>#</sup>**  
MYTTY IN FOCUS<sup>#</sup>  
JET S S T151<sup>#</sup>  
JET S S 54P<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$245	\$203	\$330	\$229

**AMF,CAF,DDF,NHF,DWF,MHF,OHF,OSF,RF**

**Traits Observed: Genomics**

**TACE** Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+4.6</b>	<b>+2.2</b>	<b>-2.8</b>	<b>+3.3</b>	<b>+61</b>	<b>+113</b>	<b>+146</b>	<b>+125</b>	<b>+18</b>
Acc	79%	62%	97%	96%	94%	93%	93%	88%	85%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+0.7</b>	<b>-1.2</b>	<b>+84</b>	<b>+9.4</b>	<b>-1.2</b>	<b>-2.8</b>	<b>+1.9</b>	<b>+2.4</b>	<b>-0.03</b>	<b>+16</b>
91%	53%	86%	84%	85%	81%	81%	82%	66%	86%

Statistics: Number of Herds: 24, Prog Analysed: 193, Genomic Prog: 73

**Lot 1 HARDHAT H708 J531 R56# APR**

**Ident:** DKKR56 **Mating Type:** AI **DOB:** 25/07/2020  
 G A R PREDESTINED#  
 RENNYLEA C511<sup>PV</sup>  
**Sire:** NORH708 RENNYLEA H708<sup>PV</sup>  
 TE MANIA AFRICA A217<sup>PV</sup>  
 RENNYLEA E176<sup>PV</sup>  
 RENNYLEA B124<sup>PV</sup>  
 N BAR EMULATION EXT#  
 SINCLAIR EMULATION XXP<sup>SV</sup>  
**Dam:** DKKJ531 HARDHAT XXP SPICE GIRL Y97 J531#  
 N BAR PRIMROSE Y3051#  
 YTHANBRAE THE DON W57#  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105#

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$169	\$131	\$240	\$154

AMFU,CAFU,DDFU,NHFU

Traits Observed: GL,BWT



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-2.1</b>	<b>-0.3</b>	<b>-1.9</b>	<b>+4.5</b>	<b>+44</b>	<b>+86</b>	<b>+112</b>	<b>+103</b>	<b>+16</b>
Acc	59%	53%	84%	74%	66%	66%	67%	65%	61%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.9</b>	<b>-2.9</b>	<b>+62</b>	<b>+5.2</b>	<b>-1.1</b>	<b>-1.1</b>	<b>+0.1</b>	<b>+3.9</b>	<b>+0.51</b>	<b>-</b>
64%	47%	64%	62%	66%	63%	64%	62%	58%	-

R56 is a long bodied RENNYLEA H708 son with a beautiful skin type. Use this sire to add Marbling. His Sinclair Emulation XXP dam produced our top price bull in 2021. The XXP cows are unique to Hardhat Angus.

Purchaser:..... \$:.....

**Lot 2 HARDHAT H708 K27 R54<sup>SV</sup> APR**

**Ident:** DKKR54 **Mating Type:** AI **DOB:** 24/07/2020  
 G A R PREDESTINED#  
 RENNYLEA C511<sup>PV</sup>  
**Sire:** NORH708 RENNYLEA H708<sup>PV</sup>  
 TE MANIA AFRICA A217<sup>PV</sup>  
 RENNYLEA E176<sup>PV</sup>  
 RENNYLEA B124<sup>PV</sup>  
 N BAR EMULATION EXT#  
 SINCLAIR EMULATION XXP<sup>SV</sup>  
**Dam:** DKKK27 HARDHAT XXP CLEO W05 K27#  
 N BAR PRIMROSE Y3051#  
 NOONEE ULMARRA U19#  
 HARDHAT CLEO W05#  
 NOONEE CLEO P143+94#

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$158	\$133	\$223	\$141

AMFU,CAFU,DD1%,NHFU

Traits Observed: GL,BWT,Genomics



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-6.1</b>	<b>+0.4</b>	<b>-1.8</b>	<b>+4.9</b>	<b>+43</b>	<b>+85</b>	<b>+102</b>	<b>+96</b>	<b>+12</b>
Acc	60%	55%	84%	74%	73%	72%	73%	71%	67%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.7</b>	<b>-2.5</b>	<b>+61</b>	<b>+6.3</b>	<b>-1.9</b>	<b>-2.5</b>	<b>+1.1</b>	<b>+3.5</b>	<b>-0.07</b>	<b>-</b>
69%	49%	70%	68%	72%	69%	70%	68%	62%	-

R54 is a high marbling RENNYLEA H708 sire from the Sinclair Emulation XXP dam. XXP produces the best quality udders in the Angus breed.

Purchaser:..... \$:.....

**Lot 3 HARDHAT KODAK L38 R83<sup>SV</sup> HBR**

**Ident:** DKKR83 **Mating Type:** Natural **DOB:** 10/08/2020  
 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup>  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** NOR522 RENNYLEA KODAK K522<sup>SV</sup>  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810#  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 PAPA EQUATOR 2928#  
 ARDOSSAN EQUATOR A241<sup>PV</sup>  
 ARDOSSAN PRINCESS W38<sup>PV</sup>  
**Dam:** DKKL38 HARDHAT A241 WILCOOLA A16 L38#  
 B/R NEW FRONTIER 095#  
 HARDHAT WILCOOLA A16#  
 ARISAIG WILCOOLA V9<sup>SV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$186	\$148	\$249	\$173

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT,400WT,SC, Scan(EMA,Rib,IMF),DOC,Structure(Claw Set x 1, Foot Angle x 1),Genomics



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+6.7</b>	<b>+5.6</b>	<b>-5.2</b>	<b>+3.1</b>	<b>+48</b>	<b>+91</b>	<b>+124</b>	<b>+124</b>	<b>+16</b>
Acc	62%	57%	71%	74%	72%	72%	73%	71%	68%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+3.8</b>	<b>-4.8</b>	<b>+75</b>	<b>+5.0</b>	<b>-0.6</b>	<b>-2.4</b>	<b>+0.8</b>	<b>+3.1</b>	<b>+0.19</b>	<b>+6</b>
73%	50%	70%	68%	72%	69%	70%	68%	62%	57%

R83 is a stylish free moving RENNYLEA KODAK son . His skin is perfect. Extremely well balanced data set and phenotype. Good calving ease, growth, fertility and marbling. The A241 dams in our herd are consistent producers year in year out.

Purchaser:..... \$:.....

**Lot 4 HARDHAT K522 K182 R95<sup>SV</sup> HBR**

**Ident:** DKKR95 **Mating Type:** Natural **DOB:** 16/08/2020  
 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup>  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** NOR522 RENNYLEA KODAK K522<sup>SV</sup>  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810#  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 TC ABERDEEN 759<sup>SV</sup>  
 KANSAS ABERDEEN F84<sup>SV</sup>  
 KANSAS ANNIE D62#  
**Dam:** NKLK182 KANSAS K182#  
 S A V NET WORTH 4200#  
 KANSAS BEAUTY F136#  
 KANSAS BEAUTY B45#

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$155	\$105	\$229	\$138

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure(-Claw Set x 1, Foot Angle x 1),Genomics



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-0.9</b>	<b>+7.0</b>	<b>-0.8</b>	<b>+6.5</b>	<b>+60</b>	<b>+106</b>	<b>+154</b>	<b>+168</b>	<b>+8</b>
Acc	61%	54%	71%	73%	72%	72%	73%	71%	68%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBV</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.2</b>	<b>-1.3</b>	<b>+77</b>	<b>-0.3</b>	<b>-0.4</b>	<b>-1.6</b>	<b>-1.4</b>	<b>+3.7</b>	<b>-0.08</b>	<b>+0</b>
72%	46%	69%	67%	71%	68%	69%	67%	60%	55%

R95 is HIGH GROWTH, HIGH MARBLING Rennylea Kodak son. We see this sire having great commercial potential breeding premium feeder steers.

Purchaser:..... \$:.....

**Lot 5 HARDHAT K522 L33 R92<sup>SV</sup> HBR**

**Ident:** DKKR92 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** Natural **DOB:** 15/08/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 PAPA EQUATOR 2928<sup>#</sup>  
 ARDROSSAN EQUATOR A241<sup>PV</sup>  
 ARDROSSAN PRINCESS W38<sup>PV</sup>  
**Dam:** **DKKL33 HARDHAT A241 DIANA A11 L33<sup>#</sup>**  
 B/R NEW FRONTIER 095<sup>#</sup>  
 HARDHAT NF DIANA A11<sup>#</sup>  
 HARDHAT DIANA X07<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$218	\$174	\$285	\$202

AMFU,CAFU,DDFU,NHFU

*Traits Observed: BWT,Genomics*



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+5.2</b>	<b>+8.5</b>	<b>-2.6</b>	<b>+4.2</b>	<b>+57</b>	<b>+98</b>	<b>+136</b>	<b>+128</b>	<b>+16</b>
Acc	62%	57%	70%	73%	72%	72%	72%	71%	67%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+3.7</b>	<b>-7.8</b>	<b>+72</b>	<b>+1.0</b>	<b>-0.3</b>	<b>-1.3</b>	<b>+0.0</b>	<b>+2.5</b>	<b>+0.05</b>	<b>-</b>
68%	49%	69%	67%	71%	68%	69%	67%	61%	-

R92 is RENNYLEA KODAK son who combines calving ease and growth. He is a high fertility sire with marbling and highly ranked for foot claw and angle.

**Purchaser:**..... \$:.....

**Lot 6 HARDHAT KODAK N99 R58<sup>SV</sup> APR**

**Ident:** DKKR58 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** AI **DOB:** 25/07/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 RITO 707 OF IDEAL 3407 7075<sup>#</sup>  
 S A V RENOWN 3439<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Dam:** **DKKN99 HARDHAT REN MITTAGONG K41 N99<sup>#</sup>**  
 SINCLAIR EMULATION XXP<sup>PV</sup>  
 HARDHAT XXP MITTAGONG H500 K41<sup>#</sup>  
 HARDHAT H500<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$204	\$166	\$261	\$189

AMFU,CA13%,DDFU,NHFU

*Traits Observed: GL,BWT,Genomics*



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+2.1</b>	<b>-1.4</b>	<b>-4.8</b>	<b>+4.5</b>	<b>+50</b>	<b>+83</b>	<b>+109</b>	<b>+87</b>	<b>+15</b>
Acc	60%	53%	82%	73%	71%	71%	72%	70%	67%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+3.8</b>	<b>-5.0</b>	<b>+59</b>	<b>+5.9</b>	<b>+2.6</b>	<b>+2.5</b>	<b>+0.2</b>	<b>+1.9</b>	<b>+0.04</b>	<b>-</b>
67%	45%	68%	66%	70%	67%	68%	66%	59%	-

R58 is a product of one of our favorite genetic combinations Rennylea Kodak x SAV Renown. R58 has been a standout since birth. He is a bull with HIGH FERTILITY and HIGH FATS. A seriously good bull.

**Purchaser:**..... \$:.....

**Lot 7 HARDHAT PHOENIX M60 R52<sup>SV</sup> HBR**

**Ident:** DKKR52 CONNEALY IN SURE 8524<sup>#</sup> **Mating Type:** AI **DOB:** 24/07/2020  
 G A R SURE FIRE<sup>SV</sup>  
 CHAIR ROCK 5050 G A R 8086<sup>#</sup>  
**Sire:** **USA18636106 G A R PHOENIX<sup>PV</sup>**  
 G A R PROPHET<sup>SV</sup>  
 G A R PROPHET N744<sup>#</sup>  
 G A R DAYBREAK 440<sup>#</sup>  
 RITO 707 OF IDEAL 3407 7075<sup>#</sup>  
 S A V RESOURCE 1441<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Dam:** **DKKM60 HARDHAT RES WILCOOLA A16 M60<sup>#</sup>**  
 B/R NEW FRONTIER 095<sup>#</sup>  
 HARDHAT WILCOOLA A16<sup>#</sup>  
 ARISAIG WILCOOLA V9<sup>SV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$257	\$220	\$326	\$239

AMFU,CAFU,DDFU,NHFU

*Traits Observed: GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure(-Claw Set x 1, Foot Angle x 1),Genomics*



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+3.5</b>	<b>-2.5</b>	<b>-4.4</b>	<b>+4.8</b>	<b>+65</b>	<b>+110</b>	<b>+141</b>	<b>+116</b>	<b>+17</b>
Acc	58%	51%	84%	73%	72%	71%	72%	69%	65%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+3.7</b>	<b>-4.0</b>	<b>+77</b>	<b>+7.2</b>	<b>+0.1</b>	<b>-0.2</b>	<b>+2.5</b>	<b>+1.1</b>	<b>-0.13</b>	<b>+16</b>
73%	42%	67%	65%	69%	66%	66%	65%	57%	53%

R52 is the first GAR PHEONIX son in the sale. This sire will add GROWTH, FERTILITY and CARCASE YIELD. A moderate frame thick Pheonix son which is very rare, this comes from his powerhouse SAV Resource dam.

**Purchaser:**..... \$:.....

**Lot 8 HARDHAT PHOENIX M57 R53<sup>#</sup> APR**

**Ident:** DKKR53 CONNEALY IN SURE 8524<sup>#</sup> **Mating Type:** AI **DOB:** 24/07/2020  
 G A R SURE FIRE<sup>SV</sup>  
 CHAIR ROCK 5050 G A R 8086<sup>#</sup>  
**Sire:** **USA18636106 G A R PHOENIX<sup>PV</sup>**  
 G A R PROPHET<sup>SV</sup>  
 G A R PROPHET N744<sup>#</sup>  
 G A R DAYBREAK 440<sup>#</sup>  
 RITO 707 OF IDEAL 3407 7075<sup>#</sup>  
 S A V RESOURCE 1441<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Dam:** **DKKM57 HARDHAT RES ABIGAIL F12 M57<sup>#</sup>**  
 RENNYLEA B77<sup>PV</sup>  
 HARDHAT B77 ABIGAIL F12<sup>#</sup>  
 HARDHAT ABIGAIL B24<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$245	\$210	\$316	\$230

AMFU,CAFU,DDFU,NHFU

*Traits Observed: GL,BWT*



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+5.2</b>	<b>-2.2</b>	<b>-2.3</b>	<b>+3.1</b>	<b>+55</b>	<b>+101</b>	<b>+125</b>	<b>+98</b>	<b>+19</b>
Acc	56%	47%	85%	73%	64%	64%	64%	62%	58%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.8</b>	<b>-4.7</b>	<b>+73</b>	<b>+9.2</b>	<b>+0.6</b>	<b>+0.0</b>	<b>+1.6</b>	<b>+1.9</b>	<b>+0.25</b>	<b>-</b>
61%	38%	59%	59%	62%	59%	59%	58%	51%	-

R53 is a long bodied sire with presence and balance. Another GAR PHEONIX x SAV Resource combination. Moderate birth, high growth with fertility, eye muscle and yield.

**Purchaser:**..... \$:.....

**Lot 9 HARDHAT NIAGARA P146 R65<sup>SV</sup> HBR**

Ident: DKKR65 SYDGEN C C & 7<sup>#</sup> Mating Type: AI DOB: 26/07/2020  
 HOOVER DAM<sup>#</sup> ERICA OF ELLSTON C124<sup>#</sup>  
**Sire: USA17287387 S S NIAGARA Z29<sup>SV</sup>** B/R NEW DAY 454<sup>#</sup>  
 JET S S X144<sup>#</sup> JET S S T151<sup>#</sup>  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 RENNYLEA KODAK K522<sup>SV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
**Dam: DKKP146 HARDHAT K522 MISS WILCOOLA M29 P146<sup>#</sup>** S A V RESOURCE 1441<sup>PV</sup>  
 HARDHAT RES MISS WILCOOLA C2 M29<sup>#</sup>  
 HARDHAT A50 MISS WILCOOLA C21<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$185	\$146	\$261	\$167

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure(Claw Set x 1, Foot Angle x 1),Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

Dir	Dtr	GL	BW	200	400	600	Mwt	Milk	
<b>EBV's</b>	<b>+5.4</b>	<b>+3.5</b>	<b>-2.1</b>	<b>+2.6</b>	<b>+53</b>	<b>+95</b>	<b>+125</b>	<b>+126</b>	<b>+15</b>
Acc	57%	48%	84%	72%	70%	70%	71%	68%	64%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.3</b>	<b>-1.9</b>	<b>+71</b>	<b>+6.6</b>	<b>-1.8</b>	<b>-4.4</b>	<b>+0.8</b>	<b>+3.1</b>	<b>-0.18</b>	<b>+12</b>
71%	39%	66%	63%	68%	64%	65%	63%	54%	52%

R65 is a balanced meat machine by SS NIAGARA from the Rennylea Kodak dam. A curve bending docile sire with muscle and marbling. Excellent structural data for claw shape and foot angle. A true Angus type.

Purchaser:..... \$:.....

**Lot 10 HARDHAT NIAGARA L2 R30<sup>SV</sup> HBR**

Ident: DKKR30 SYDGEN C C & 7<sup>#</sup> Mating Type: AI DOB: 20/07/2020  
 HOOVER DAM<sup>#</sup> ERICA OF ELLSTON C124<sup>#</sup>  
**Sire: USA17287387 S S NIAGARA Z29<sup>SV</sup>** B/R NEW DAY 454<sup>#</sup>  
 JET S S X144<sup>#</sup> JET S S T151<sup>#</sup>  
 TE MANIA BARTEL B219<sup>PV</sup>  
 AYRVALE BARTEL E7<sup>PV</sup>  
 EAGLEHAWK JEDDA B32<sup>SV</sup>  
**Dam: DKKL2 HARDHAT E7 MITTAGONG J51 L2<sup>#</sup>** ARDROSSAN DIRECTION A50<sup>SV</sup>  
 HARDHAT A50 MITTAGONG E10 J51<sup>#</sup>  
 HARDHAT U170 MITTAGONG E10<sup>PV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$233	\$190	\$307	\$220

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** GL,BWT,Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

Dir	Dtr	GL	BW	200	400	600	Mwt	Milk	
<b>EBV's</b>	<b>+6.2</b>	<b>+4.2</b>	<b>-5.1</b>	<b>+3.0</b>	<b>+49</b>	<b>+93</b>	<b>+121</b>	<b>+91</b>	<b>+17</b>
Acc	58%	50%	83%	72%	70%	70%	70%	68%	63%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.3</b>	<b>-6.4</b>	<b>+70</b>	<b>+5.4</b>	<b>+0.4</b>	<b>-0.5</b>	<b>-0.1</b>	<b>+3.1</b>	<b>+0.35</b>	<b>-</b>
66%	41%	65%	63%	67%	64%	64%	63%	53%	-

R30 was used as a yearling. A curve bending sire with calving ease and growth. This +3 Marbling bull also descends from the Mittagong cow family who also produced Hardhat Maimuru M41 who is one of the highest proven marbling sires in Australia.

Purchaser:..... \$:.....

**Lot 11 HARDHAT KODAK N26 R84<sup>SV</sup> HBR**

Ident: DKKR84 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> Mating Type: Natural DOB: 10/08/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire: NORK522 RENNYLEA KODAK K522<sup>SV</sup>** TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 RITO 707 OF IDEAL 3407 7075<sup>#</sup>  
 S A V RENOWN 3439<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Dam: DKKN26 HARDHAT REN ANNIE F181 N26<sup>#</sup>** SITZ UPWARD 307R<sup>SV</sup>  
 KANSAS RITA F181<sup>SV</sup>  
 KANSAS ANNIE C10<sup>PV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$217	\$186	\$286	\$198

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** BWT,400WT,SC, Scan(EMA,Rump,IMF),DOC,Structure(Claw Set x 1, Foot Angle x 1),Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

Dir	Dtr	GL	BW	200	400	600	Mwt	Milk	
<b>EBV's</b>	<b>+3.0</b>	<b>+4.0</b>	<b>-3.0</b>	<b>+4.8</b>	<b>+61</b>	<b>+102</b>	<b>+128</b>	<b>+134</b>	<b>+9</b>
Acc	61%	54%	71%	73%	72%	71%	72%	71%	67%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.9</b>	<b>-6.2</b>	<b>+74</b>	<b>+6.3</b>	<b>+1.0</b>	<b>-0.1</b>	<b>+0.5</b>	<b>+2.3</b>	<b>-0.35</b>	<b>-4</b>
72%	45%	69%	67%	71%	67%	68%	66%	60%	56%

R84 ia a high growth RENNYLEA KODAK son with a very balanced data set. Muscle, Marbling and positive structural data. Please note this sire is in the top 5% for Net Feed Intake. His dam is a powerhouse SAV Renown daughter from a long line of Kansas Annie donor dams.

Purchaser:..... \$:.....

**Lot 12 HARDHAT K522 F169 R104<sup>PV</sup> HBR**

Ident: DKKR104 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> Mating Type: Natural DOB: 28/08/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire: NORK522 RENNYLEA KODAK K522<sup>SV</sup>** TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 S A V 8180 TRAVELER 004<sup>#</sup>  
 S A V NET WORTH 4200<sup>#</sup>  
 S A V MAY 2410<sup>#</sup>  
**Dam: NKLF169 KANSAS LEAH F169<sup>SV</sup>** YTHANBRAE THE DON W57<sup>#</sup>  
 KANSAS LEAH Y135<sup>#</sup>  
 KANSAS LEAH T33<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$174	\$138	\$229	\$160

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** BWT,400WT,SC, Scan(EMA,Rump,IMF),DOC,Structure(Claw Set x 1, Foot Angle x 1),Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

Dir	Dtr	GL	BW	200	400	600	Mwt	Milk	
<b>EBV's</b>	<b>+5.9</b>	<b>+4.9</b>	<b>-3.9</b>	<b>+4.9</b>	<b>+49</b>	<b>+93</b>	<b>+130</b>	<b>+131</b>	<b>+15</b>
Acc	62%	56%	71%	74%	73%	72%	73%	72%	69%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.7</b>	<b>-5.1</b>	<b>+74</b>	<b>+4.4</b>	<b>+0.8</b>	<b>-1.3</b>	<b>+0.3</b>	<b>+2.7</b>	<b>+0.24</b>	<b>-18</b>
73%	48%	70%	68%	72%	69%	69%	67%	61%	57%

R104 is a HIGH GROWTH Rennylea Kodak son with a powerful butt shape. His SAV Net Worth dam has packed some punch into him. He is at the top of the breed for claw set top 2% and top 22% for foot angle.

Purchaser:..... \$:.....

**Lot 13 HARDHAT KODAK J532 R79<sup>SV</sup> HBR**

**Ident:** DKKR79 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** Natural **DOB:** 08/08/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 BT RIGHT TIME 24J<sup>#</sup>  
 SINCLAIR GRASS MASTER<sup>#</sup>  
 N BAR PRIMROSE Y3051<sup>#</sup>  
**Dam:** **DKKJ532 HARDHAT GM ANNIE Y21 J532<sup>#</sup>**  
 BON VIEW NEW DESIGN 1407<sup>#</sup>  
 KANSAS ANNIE Y21<sup>SV</sup>  
 AMAROO EXPO ANNIE U024<sup>#</sup>

**Index Values**

\$A	\$D	\$GN	\$GS
\$176	\$141	\$229	\$164

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** BWT,400WT,SC,  
 Scan(EMA,Rib,Rump,IMF),DOC,Structure(-  
 Claw Set x 1, Foot Angle x 1),Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+11.6</b>	<b>+9.0</b>	<b>-7.9</b>	<b>-0.9</b>	<b>+29</b>	<b>+52</b>	<b>+64</b>	<b>+46</b>	<b>+14</b>
Acc	62%	56%	71%	74%	73%	72%	73%	72%	68%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.6</b>	<b>-4.6</b>	<b>+29</b>	<b>+6.0</b>	<b>+4.1</b>	<b>+3.4</b>	<b>-0.7</b>	<b>+2.5</b>	<b>+0.95</b>	<b>-16</b>
73%	48%	70%	68%	72%	69%	70%	68%	62%	57%

R79 is a BOMBPROOF CALVING EASE sire. Top 1% for calving ease direct and birth weight while also being in the top 2% for calving ease of daughters. He is also highly positive on fats being in the top 1% for rib and top 2% for rump fat. His dam is from our all time best flush of Sinclair Grass Master to Kansas Annie Y21.

**Purchaser:**..... **\$:**.....

**Lot 14 HARDHAT K522 K16 R119<sup>SV</sup> HBR**

**Ident:** DKKR119 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** Natural **DOB:** 18/09/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 N BAR EMULATION EXT<sup>#</sup>  
 SINCLAIR EMULATION XXP<sup>SV</sup>  
 N BAR PRIMROSE Y3051<sup>#</sup>  
**Dam:** **DKKK16 HARDHAT XXP SPICE GIRL Y97 K16<sup>#</sup>**  
 YTHANBRAE THE DON W57<sup>#</sup>  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105<sup>#</sup>

**Index Values**

\$A	\$D	\$GN	\$GS
\$156	\$109	\$211	\$140

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** 400WT,SC,  
 Scan(EMA,Rib,Rump,IMF),DOC,Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+9.1</b>	<b>+8.9</b>	<b>-5.5</b>	<b>-0.1</b>	<b>+37</b>	<b>+64</b>	<b>+94</b>	<b>+83</b>	<b>+22</b>
Acc	61%	54%	70%	73%	71%	71%	72%	70%	66%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.4</b>	<b>-3.8</b>	<b>+53</b>	<b>+1.0</b>	<b>+2.7</b>	<b>+1.5</b>	<b>-1.4</b>	<b>+2.2</b>	<b>+0.22</b>	<b>-13</b>
68%	45%	68%	66%	70%	67%	67%	65%	58%	55%

R119 is BOMBPROOF CALVING EASE sire who will add genetic fat to your herd. He ranks in the top 1% for birth weight and top 5% for calving ease direct. From the Sinclair Emulation XXP x Kansas Spice Girl Y97 flush that produced so many great cows for us.

**Purchaser:**..... **\$:**.....

**Lot 15 HARDHAT K522 M40 R110<sup>SV</sup> HBR**

**Ident:** DKKR110 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** Natural **DOB:** 02/09/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 S A V 8180 TRAVELER 004<sup>#</sup>  
 S A V NET WORTH 4200<sup>#</sup>  
 S A V MAY 2410<sup>#</sup>  
**Dam:** **DKKM40 HARDHAT NW LUCY J515 M40<sup>#</sup>**  
 SINCLAIR EMULATION XXP<sup>SV</sup>  
 HARDHAT XXP LUCY W58 J515<sup>#</sup>  
 KANSAS LUCY W58<sup>SV</sup>

**Index Values**

\$A	\$D	\$GN	\$GS
\$171	\$141	\$235	\$147

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** BWT,Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-1.8</b>	<b>+0.5</b>	<b>-2.2</b>	<b>+7.6</b>	<b>+62</b>	<b>+102</b>	<b>+134</b>	<b>+146</b>	<b>+14</b>
Acc	61%	54%	72%	72%	71%	71%	71%	70%	66%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.3</b>	<b>-4.1</b>	<b>+79</b>	<b>+3.1</b>	<b>-0.9</b>	<b>-2.5</b>	<b>+0.8</b>	<b>+2.2</b>	<b>-0.25</b>	<b>-</b>
67%	46%	68%	66%	70%	67%	67%	65%	59%	-

R110 is a HIGH GROWTH Rennylea Kodak son who ranks highly on carcass weight, yield and net feed intake. His SAV Net Worth dam is a line bred Traveller cow who has a perfect udder.

**Purchaser:**..... **\$:**.....

**Lot 16 HARDHAT KODAK F113 R75<sup>PV</sup> HBR**

**Ident:** DKKR75 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup> **Mating Type:** Natural **DOB:** 05/08/2020  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 LAWSONS HENRY VIII Y5<sup>SV</sup>  
**Sire:** **NORK522 RENNYLEA KODAK K522<sup>SV</sup>**  
 TE MANIA BERKLEY B1<sup>PV</sup>  
 RENNYLEA EISA ERICA F810<sup>#</sup>  
 RENNYLEA EISA ERICA C299<sup>PV</sup>  
 CONNEALY ONWARD<sup>#</sup>  
 SITZ UPWARD 307R<sup>SV</sup>  
 SITZ HENRIETTA PRIDE 81M<sup>#</sup>  
**Dam:** **NKLF113 KANSAS ANNIE F113<sup>SV</sup>**  
 BON VIEW NEW DESIGN 1407<sup>#</sup>  
 KANSAS ANNIE Y66<sup>#</sup>  
 AMAROO EXPO ANNIE U024<sup>#</sup>

**Index Values**

\$A	\$D	\$GN	\$GS
\$210	\$181	\$267	\$192

AMFU,CAFU,DDFU,NHFU

**Traits Observed:** BWT,400WT,SC,  
 Scan(EMA,Rib,Rump,IMF),DOC,Genomics

**TACE Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+12.3</b>	<b>+10.6</b>	<b>-9.9</b>	<b>+0.6</b>	<b>+44</b>	<b>+79</b>	<b>+98</b>	<b>+78</b>	<b>+17</b>
Acc	62%	56%	71%	74%	73%	72%	73%	71%	68%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+0.4</b>	<b>-3.9</b>	<b>+62</b>	<b>+10.6</b>	<b>+1.4</b>	<b>-2.1</b>	<b>+1.9</b>	<b>+1.4</b>	<b>+0.13</b>	<b>-27</b>
69%	48%	69%	67%	71%	68%	69%	67%	61%	58%

R75 is a BOMBPROOF CALVING EASE bull from our donor dam Kansas Annie F113 who is still going strong. He ranks in the top 1% for calving ease direct and daughter, while ranking in the top 2% for gestation length and 3% for birth weight. He is a bull who will add carcass muscle and yield from the famous Annie cow family.

**Purchaser:**..... **\$:**.....

**Lot 20** **HARDHAT S41<sup>SV</sup>** **HBR**

**Ident:** DKK21S41 **Mating Type:** AI **DOB:** 20/07/2021  
 BENFIELD SUBSTANCE 8506<sup>#</sup>  
 MOHNEN SUBSTANTIAL 272<sup>#</sup>  
 MOHNEN GLYN MAWR ELBA 1758<sup>#</sup>  
**Sire:** USA18397542 **SITZ STELLAR 726D<sup>PV</sup>** **\$Index Values**  
 CONNEALY FINAL PRODUCT<sup>VV</sup> **\$A \$D \$GN \$GS**  
 SITZ PRIDE 200B<sup>#</sup> **\$197 \$165 \$247 \$179**  
 SITZ PRIDE 308Y<sup>#</sup>  
 N BAR EMULATION EXT<sup>#</sup>  
 SINCLAIR EMULATION XXP<sup>SV</sup> **AMFU,CAFU,DDFU,NHFU**  
 N BAR PRIMROSE Y3051<sup>#</sup>  
**Dam:** DKKM135 **HARDHAT XXP SPICE GIRL Y97 M135<sup>#</sup>**  
 YTHANBRAE THE DON W57<sup>#</sup> **Traits Observed: GL,BWT**  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105<sup>#</sup>

**TACE** **Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+4.5</b>	<b>+5.5</b>	<b>-7.5</b>	<b>+2.8</b>	<b>+48</b>	<b>+91</b>	<b>+119</b>	<b>+95</b>	<b>+20</b>
Acc	52%	40%	84%	73%	64%	63%	62%	59%	54%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.2</b>	<b>-4.6</b>	<b>+61</b>	<b>+3.1</b>	<b>+1.6</b>	<b>+2.2</b>	<b>-0.4</b>	<b>+1.1</b>	<b>+0.16</b>	<b>-</b>
59%	32%	57%	55%	58%	56%	55%	54%	43%	-

S41 is a thick set, heavily muscled SITZ STELLAR son. STELLAR is taking the breed by storm with his ability to breed great visible muscle with outstanding feet. Please see his updated genetic data on the supplementary sheet. We see him as being a low birth weight option with great Angus type. His dam is another magnificent Sinclair Emulation XXP daughter from the Kansas Spice Girl Y97 cow who gave 47 progeny.

**Purchaser:**..... **\$:**.....

**Lot 21** **HARDHAT S75<sup>SV</sup>** **HBR**

**Ident:** DKK21S75 **Mating Type:** AI **DOB:** 25/07/2021  
 BENFIELD SUBSTANCE 8506<sup>#</sup>  
 MOHNEN SUBSTANTIAL 272<sup>#</sup>  
 MOHNEN GLYN MAWR ELBA 1758<sup>#</sup>  
**Sire:** USA18397542 **SITZ STELLAR 726D<sup>PV</sup>** **\$Index Values**  
 CONNEALY FINAL PRODUCT<sup>VV</sup> **\$A \$D \$GN \$GS**  
 SITZ PRIDE 200B<sup>#</sup> **\$193 \$162 \$246 \$176**  
 SITZ PRIDE 308Y<sup>#</sup>  
 N BAR EMULATION EXT<sup>#</sup>  
 SINCLAIR EMULATION XXP<sup>SV</sup> **AMFU,CAFU,DDFU,NHFU**  
 N BAR PRIMROSE Y3051<sup>#</sup>  
**Dam:** DKKJ531 **HARDHAT XXP SPICE GIRL Y97 J531<sup>#</sup>**  
 YTHANBRAE THE DON W57<sup>#</sup> **Traits Observed: GL,BWT**  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105<sup>#</sup>

**TACE** **Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+2.4</b>	<b>+3.7</b>	<b>-5.3</b>	<b>+3.7</b>	<b>+49</b>	<b>+93</b>	<b>+121</b>	<b>+96</b>	<b>+19</b>
Acc	53%	41%	84%	74%	64%	63%	63%	59%	55%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.5</b>	<b>-4.1</b>	<b>+63</b>	<b>+3.7</b>	<b>+1.6</b>	<b>+2.0</b>	<b>-0.4</b>	<b>+1.4</b>	<b>+0.31</b>	<b>-</b>
61%	33%	58%	56%	58%	56%	56%	54%	44%	-

S75 is a near full brother to Lot 20. By the SITZ STELLAR sire who has stamped these bulls with butt shape and visible muscle. He has a moderate birth to good growth spread. The maternal line of lot 21 and 22 would be a tremendous asset to any commercial herd.

**Purchaser:**..... **\$:**.....

**Lot 22** **HARDHAT S78<sup>PV</sup>** **HBR**

**Ident:** DKK21S78 **Mating Type:** AI **DOB:** 27/07/2021  
 G A R PROGRESS<sup>SV</sup>  
 G A R MOMENTUM<sup>PV</sup>  
 G A R BIG EYE 1770<sup>#</sup>  
**Sire:** USA18636059 **G A R QUANTUM<sup>PV</sup>** **\$Index Values**  
 CONNEALY IN SURE 8524<sup>#</sup> **\$A \$D \$GN \$GS**  
 G A R IN SURE 1524<sup>#</sup> **\$197 \$161 \$261 \$183**  
 G A R COMPLETE 3011<sup>#</sup>  
 BT RIGHT TIME 241<sup>#</sup>  
 SINCLAIR GRASS MASTER<sup>#</sup> **AMFU,CAFU,DDFU,NHFU**  
 N BAR PRIMROSE Y3051<sup>#</sup>  
**Dam:** DKKJ520 **HARDHAT GM SPICE GIRL Y97 J520<sup>PV</sup>**  
 YTHANBRAE THE DON W57<sup>#</sup> **Traits Observed: GL,BWT**  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105<sup>#</sup>

**TACE** **Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+1.2</b>	<b>+1.7</b>	<b>-1.5</b>	<b>+3.4</b>	<b>+45</b>	<b>+83</b>	<b>+106</b>	<b>+76</b>	<b>+25</b>
Acc	55%	46%	84%	73%	67%	66%	67%	64%	59%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+3.2</b>	<b>-2.6</b>	<b>+63</b>	<b>+8.8</b>	<b>-0.6</b>	<b>-0.3</b>	<b>+1.1</b>	<b>+2.2</b>	<b>+0.60</b>	<b>-</b>
64%	38%	62%	60%	64%	61%	61%	60%	50%	-

S87 is our first GAR QUANTUM bull to be offered. He offers great balance across his data with notable high milk, scrotal and eye muscle. His dam is another donor by Sinclair Grass Master from the Kansas Spice Girl Y97 cow. Y97 had faultless structure and longevity.

**Purchaser:**..... **\$:**.....

**Lot 23** **HARDHAT S1<sup>#</sup>** **HBR**

**Ident:** DKK21S1 **Mating Type:** Natural **DOB:** 19/02/2021  
 A A R TEN X 7008 S A<sup>SV</sup>  
 DEER VALLEY ALL IN<sup>SV</sup>  
 DEER VALLEY RITA 0274<sup>#</sup>  
**Sire:** DKKM125 **HARDHAT 2138 MACLAREN E10 M125<sup>PV</sup>** **\$Index Values**  
 BOOROOMOOKA UNDERTAKEN Y145<sup>SV</sup> **\$A \$D \$GN \$GS**  
 HARDHAT U170 MITTAGONG E10<sup>PV</sup> **\$207 \$173 \$271 \$191**  
 KENNY'S CREEK MITTAGONG C75<sup>SV</sup>  
 S A V FINAL ANSWER 0035<sup>#</sup> **AMFU,CAFU,DDFU,NHFU**  
 CONNEALY CAPITALIST 028<sup>#</sup>  
 PRIDES PITA OF CONANGA 8821<sup>#</sup>  
**Dam:** DKKP14 **HARDHAT CAP TARIKU J62 P14<sup>#</sup>**  
 S A V 707 RITO 9969<sup>#</sup> **Traits Observed: BWT**  
 KANSAS EXT J62<sup>#</sup>  
 KANSAS EXT E80<sup>SV</sup>

**TACE** **Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+3.0</b>	<b>+8.2</b>	<b>-4.1</b>	<b>+2.9</b>	<b>+45</b>	<b>+84</b>	<b>+106</b>	<b>+76</b>	<b>+15</b>
Acc	48%	42%	53%	66%	54%	54%	55%	54%	50%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.3</b>	<b>-3.8</b>	<b>+56</b>	<b>+4.7</b>	<b>+0.1</b>	<b>-0.5</b>	<b>+0.3</b>	<b>+2.4</b>	<b>+0.30</b>	<b>-</b>
52%	35%	52%	50%	54%	51%	52%	50%	43%	-

S1 is a homebred son of Hardhat McLaren M125 who was the best son we bred from the pin up cow Hardhat Mittagong E10. The M125 sons have tremendous fleshing ability and softness.

**Purchaser:**..... **\$:**.....

**Lot 24** **HARDHAT S2<sup>#</sup>** **HBR**

**Ident:** DKK21S2 A A R TEN X 7008 S A<sup>SV</sup> **Mating Type:** Natural **DOB:** 26/02/2021  
 DEER VALLEY ALL IN<sup>SV</sup>  
 DEER VALLEY RITA 0274<sup>#</sup>  
**Sire:** DKKM125 HARDHAT 2138 MACLAREN E10 M125<sup>PV</sup>  
 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup>  
 HARDHAT U170 MITTAGONG E10<sup>PV</sup>  
 KENNY'S CREEK MITTAGONG C75<sup>SV</sup>  
 RENNYLEA EDMUND E11<sup>PV</sup>  
 RENNYLEA KODAK K522<sup>SV</sup>  
**Dam:** DKKQ3 HARDHAT K522 LEAH M1 Q3<sup>#</sup>  
 S A V TEN SPEED 3022<sup>PV</sup>  
 HARDHAT TS LEAH F169 M1<sup>#</sup>  
 KANSAS LEAH F169<sup>SV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$220	\$176	\$295	\$206

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+3.2</b>	<b>+7.9</b>	<b>-4.5</b>	<b>+3.2</b>	<b>+48</b>	<b>+88</b>	<b>+115</b>	<b>+87</b>	<b>+15</b>
Acc	49%	44%	55%	66%	56%	56%	57%	56%	53%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.1</b>	<b>-4.7</b>	<b>+61</b>	<b>+3.4</b>	<b>+0.3</b>	<b>-1.0</b>	<b>+0.0</b>	<b>+3.2</b>	<b>+0.39</b>	<b>-</b>
54%	36%	54%	52%	56%	53%	54%	52%	46%	-

S2 is an easy fleshing McLaren M125 son. Please see his updated genetic data on the supplementary sheet. From the Rennylea Kodak dam who is extremely sound.

Purchaser:..... \$:.....

**Lot 25** **HARDHAT S4<sup>#</sup>** **HBR**

**Ident:** DKK21S4 A A R TEN X 7008 S A<sup>SV</sup> **Mating Type:** Natural **DOB:** 28/02/2021  
 DEER VALLEY ALL IN<sup>SV</sup>  
 DEER VALLEY RITA 0274<sup>#</sup>  
**Sire:** DKKM125 HARDHAT 2138 MACLAREN E10 M125<sup>PV</sup>  
 BOOROOMOOKA UNDERTAKEN Y145<sup>PV</sup>  
 HARDHAT U170 MITTAGONG E10<sup>PV</sup>  
 KENNY'S CREEK MITTAGONG C75<sup>SV</sup>  
 S A V FINAL ANSWER 0035<sup>#</sup>  
 CONNEALY CAPITALIST 028<sup>#</sup>  
 PRIDES PITA OF CONANGA 8821<sup>#</sup>  
**Dam:** DKKP18 HARDHAT CAP ANNIE M6 P18<sup>#</sup>  
 KANSAS EVIDENTLY J81<sup>SV</sup>  
 HARDHAT J81 ANNIE G158 M6<sup>#</sup>  
 KANSAS ANNIE G158<sup>SV</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$220	\$180	\$289	\$204

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>+1.7</b>	<b>+5.8</b>	<b>-3.7</b>	<b>+3.8</b>	<b>+49</b>	<b>+88</b>	<b>+114</b>	<b>+78</b>	<b>+16</b>
Acc	48%	43%	54%	66%	55%	55%	56%	55%	51%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.9</b>	<b>-3.3</b>	<b>+57</b>	<b>+5.0</b>	<b>-0.5</b>	<b>-1.4</b>	<b>+0.9</b>	<b>+2.5</b>	<b>+0.19</b>	<b>-</b>
52%	35%	53%	50%	55%	52%	53%	51%	44%	-

S4 is an easy fleshing Hardhat McLaren M125 son. His dam is a Capitalist daughter producing true to type beef bulls. Please see updated genetic data on the supplementary sheet.

Purchaser:..... \$:.....

**Lot 26** **HARDHAT S18<sup>SV</sup>** **HBR**

**Ident:** DKK21S18 RITO 707 OF IDEAL 3407 7075<sup>#</sup> **Mating Type:** Natural **DOB:** 08/04/2021  
 S A V RENOWN 3439<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Sire:** DKKN21 HARDHAT RENOWN F143 N21<sup>PV</sup>  
 SITZ UPWARD 307R<sup>SV</sup>  
 KANSAS ANNIE F143<sup>SV</sup>  
 KANSAS ANNIE C10<sup>SV</sup>  
 DUNOON EVIDENT E614<sup>PV</sup>  
 KANSAS EVIDENTLY J81<sup>SV</sup>  
 KANSAS ANNIE E109<sup>#</sup>  
**Dam:** DKKM6 HARDHAT J81 ANNIE G158 M6<sup>#</sup>  
 SITZ UPWARD 307R<sup>SV</sup>  
 KANSAS ANNIE G158<sup>SV</sup>  
 KANSAS ANNIE X164<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$185	\$163	\$229	\$167

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-4.6</b>	<b>-7.3</b>	<b>-5.0</b>	<b>+5.7</b>	<b>+56</b>	<b>+98</b>	<b>+126</b>	<b>+105</b>	<b>+16</b>
Acc	48%	42%	55%	65%	58%	58%	58%	57%	52%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+2.3</b>	<b>-3.7</b>	<b>+69</b>	<b>+7.5</b>	<b>+0.1</b>	<b>+0.4</b>	<b>+1.8</b>	<b>+0.1</b>	<b>-0.26</b>	<b>-</b>
54%	32%	54%	52%	56%	53%	53%	51%	44%	-

S18 is a long bodied, long necked son of Hardhat Renown N21. These N21 sons have genuine growth and great feet.

Purchaser:..... \$:.....

**Lot 27** **HARDHAT S19<sup>#</sup>** **HBR**

**Ident:** DKK21S19 RITO 707 OF IDEAL 3407 7075<sup>#</sup> **Mating Type:** Natural **DOB:** 08/04/2021  
 S A V RENOWN 3439<sup>PV</sup>  
 S A V BLACKCAP MAY 4136<sup>#</sup>  
**Sire:** DKKN21 HARDHAT RENOWN F143 N21<sup>PV</sup>  
 SITZ UPWARD 307R<sup>SV</sup>  
 KANSAS ANNIE F143<sup>SV</sup>  
 KANSAS ANNIE C10<sup>SV</sup>  
 S A V FINAL ANSWER 0035<sup>#</sup>  
 S A V PIONEER 7301<sup>#</sup>  
 S A V BLACKBIRD 5297<sup>#</sup>  
**Dam:** DKKJ527 HARDHAT 7301 SPICE GIRL Y97 J527<sup>#</sup>  
 YTHANBRAE THE DON W57<sup>#</sup>  
 KANSAS SPICE GIRL Y97<sup>SV</sup>  
 KANSAS SPICE GIRL V105<sup>#</sup>

**\$Index Values**

\$A	\$D	\$GN	\$GS
\$192	\$168	\$238	\$174

AMFU,CAFU,DDFU,NHFU

Traits Observed: BWT



**Mid August 2022 TransTasman Angus Cattle Evaluation**

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
<b>EBV's</b>	<b>-1.1</b>	<b>+1.0</b>	<b>-6.6</b>	<b>+4.7</b>	<b>+54</b>	<b>+95</b>	<b>+123</b>	<b>+99</b>	<b>+17</b>
Acc	48%	41%	55%	65%	58%	58%	59%	57%	52%
<b>SC</b>	<b>DC</b>	<b>CWT</b>	<b>EMA</b>	<b>Rib</b>	<b>Rump</b>	<b>RBY</b>	<b>IMF%</b>	<b>NFI-F</b>	<b>DOC</b>
<b>+1.8</b>	<b>-3.3</b>	<b>+71</b>	<b>+6.8</b>	<b>+0.7</b>	<b>+0.5</b>	<b>+1.4</b>	<b>+0.2</b>	<b>+0.04</b>	<b>-</b>
55%	33%	54%	52%	56%	53%	53%	51%	44%	-

S19 is a high growth, high muscle son of Hardhat Renown N21. From the powerhouse SAV Pioneer daughter J527. Who not surprisingly descends from Kansas Spice Girl Y97.

Purchaser:..... \$:.....





Ident: DKK21S8 RITO 707 OF IDEAL 3407 7075# Mating Type: Natural DOB: 06/03/2021  
 S A V RENOWN 3439<sup>PV</sup>  
 Sire: DKKN21 HARDHAT RENOWN F143 N21<sup>PV</sup> \$ Index Values  
 S A V BLACKCAP MAY 4136# \$A \$D \$GN \$GS  
 SITZ UPWARD 307R<sup>SV</sup> \$184 \$159 \$237 \$165  
 KANSAS ANNIE F143<sup>SV</sup>  
 KANSAS ANNIE C10<sup>SV</sup>  
 BT RIGHT TIME 241# AMFU,CAFU,DDFU,NHFU  
 SINCLAIR GRASS MASTER#  
 N BAR PRIMROSE Y3051#  
 Dam: DKKJ506 HARDHAT GM ANNIE Y21 J506<sup>PV</sup> Traits Observed: BWT  
 BON VIEW NEW DESIGN 1407#  
 KANSAS ANNIE Y21<sup>SV</sup>  
 AMAROO EXPO ANNIE U024#



Mid August 2022 TransTasman Angus Cattle Evaluation

	Dir	Dtr	GL	BW	200	400	600	Mwt	Milk
EBV's	+0.7	-2.0	-5.7	+2.8	+45	+83	+101	+78	+17
Acc	51%	46%	60%	69%	63%	63%	64%	62%	57%
SC	DC	CWT	EMA	Rib	Rump	RBV	IMF%	NFI-F	DOC
+0.9	-4.1	+60	+5.1	+0.7	+0.9	+0.2	+1.3	-0.04	-
60%	37%	60%	58%	62%	59%	60%	57%	50%	-

S8 is an athletic son of Hardhat Renown N21. His dam J506 is from the Sinclair Grass Master x Kansas Annie Y21 flush which also produced Hardhat Grass Range who had a long stud career at Myanga Angus.

Purchaser:..... \$:.....



Lot 23



Lot 9



Lot 3



Lot 11



TransTasman Angus Cattle Evaluation - Mid August 2022 Reference Tables

BREED AVERAGE EBVS

Brd Avg	Calving Ease			Birth			Growth			Fertility			Carcass			Other			Structure			Selection Indexes		
	CEDir	CEDirs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RFI	IMF	NFI-F	DOC	Angle	Claw	SA-L	SA-L	SA-L
	+2.1	+2.5	-4.7	+4.1	+49	+89	+116	+100	+17	+2.1	-4.6	+66	+6.1	+0.0	-0.4	+0.5	+2.1	+0.18	+7	+0.98	+0.85	+193	+334	+193

\* Breed average represents the average EBV of all 2020 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2022 TransTasman Angus Cattle Evaluation.

PERCENTILE BANDS TABLE

% Band	Calving Ease			Birth			Growth			Fertility			Carcass			Other			Structure			Selection Indexes		
	CEDir	CEDirs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RFI	IMF	NFI-F	DOC	Angle	Claw	SA-L	SA-L	SA-L
1%	+10.8	+9.8	-10.6	-0.1	+69	+120	+161	+158	+28	+4.7	-9.9	+93	+12.7	+3.5	+3.6	+2.9	+4.6	-0.57	+36	+0.60	+0.44	+450	+419	+168
5%	+9.0	+9.2	-8.7	+1.9	+62	+110	+146	+139	+25	+3.7	-8.3	+85	+10.5	+2.4	+2.2	+2.1	+3.8	-0.34	+27	+0.72	+0.56	+278	+264	+79
10%	+7.8	+7.2	-7.2	+2.4	+59	+105	+139	+129	+22	+3.3	-7.5	+80	+9.4	+1.8	+1.6	+1.7	+3.4	-0.22	+23	+0.78	+0.62	+242	+233	+181
15%	+7.0	+6.5	-7.2	+2.4	+57	+102	+135	+123	+22	+3.0	-6.9	+78	+8.7	+1.4	+1.2	+1.5	+3.1	-0.14	+20	+0.80	+0.66	+226	+226	+141
20%	+6.3	+5.9	-6.7	+2.7	+56	+100	+131	+119	+21	+2.8	-6.5	+75	+8.1	+1.1	+0.9	+1.3	+2.9	-0.08	+17	+0.84	+0.70	+220	+220	+104
25%	+5.6	+5.3	-6.3	+3.0	+54	+98	+128	+115	+20	+2.7	-6.1	+74	+7.7	+0.9	+0.6	+1.1	+2.8	-0.03	+15	+0.86	+0.72	+215	+215	+81
30%	+5.0	+4.8	-5.9	+3.2	+53	+96	+125	+111	+20	+2.5	-5.8	+72	+7.3	+0.7	+0.4	+1.0	+2.6	+0.02	+14	+0.90	+0.76	+210	+210	+62
35%	+4.4	+4.4	-5.6	+3.5	+52	+92	+123	+108	+19	+2.4	-5.5	+70	+6.9	+0.5	+0.2	+0.9	+2.4	+0.06	+12	+0.92	+0.78	+205	+205	+42
40%	+3.9	+3.9	-5.2	+3.7	+51	+92	+120	+105	+18	+2.3	-5.2	+69	+6.6	+0.3	+0.0	+0.7	+2.3	+0.10	+10	+0.94	+0.80	+201	+201	+29
45%	+3.3	+3.4	-4.9	+3.9	+50	+91	+118	+103	+18	+2.1	-4.9	+68	+6.3	+0.1	-0.2	+0.6	+2.2	+0.14	+9	+0.96	+0.82	+201	+201	+18
50%	+2.7	+3.0	-4.7	+4.1	+49	+89	+116	+100	+17	+2.0	-4.6	+66	+6.0	+0.0	-0.4	+0.5	+2.0	+0.17	+8	+0.98	+0.84	+196	+196	+11
55%	+2.1	+2.5	-4.4	+4.3	+49	+88	+114	+97	+17	+1.9	-4.3	+65	+5.7	-0.2	-0.6	+0.4	+1.9	+0.21	+6	+1.00	+0.86	+191	+191	+10
60%	+1.5	+2.0	-4.1	+4.5	+48	+86	+112	+95	+16	+1.8	-4.1	+64	+5.4	-0.3	-0.8	+0.3	+1.8	+0.25	+4	+1.02	+0.88	+186	+186	+18
65%	+0.8	+1.4	-3.8	+4.7	+47	+85	+110	+92	+16	+1.7	-3.8	+62	+5.1	-0.5	-1.0	+0.1	+1.7	+0.29	+3	+1.04	+0.92	+181	+181	+11
70%	+0.1	+0.8	-3.4	+5.0	+46	+83	+107	+89	+15	+1.5	-3.5	+61	+4.8	-0.7	-1.2	+0.0	+1.5	+0.34	+1	+1.06	+0.94	+175	+175	+10
75%	-0.8	+0.1	-3.1	+5.2	+45	+81	+104	+86	+14	+1.4	-3.1	+59	+4.5	-0.9	-1.4	-0.1	+1.4	+0.39	-1	+1.08	+0.98	+169	+169	+9
80%	-1.7	-0.6	-2.2	+5.5	+43	+77	+102	+82	+14	+1.3	-2.8	+57	+4.1	-1.1	-1.6	+0.3	+1.3	+0.44	-3	+1.12	+1.00	+162	+162	+8
85%	-2.9	-1.5	-2.2	+5.9	+42	+77	+98	+78	+13	+1.1	-2.3	+55	+3.6	-1.4	-2.0	-0.5	+1.1	+0.51	-5	+1.14	+1.04	+154	+154	+7
90%	-4.5	-2.7	-1.7	+6.3	+40	+73	+94	+72	+12	+0.9	-1.8	+52	+3.1	-1.7	-2.4	-0.8	+0.9	+0.59	-8	+1.20	+1.10	+141	+141	+6
95%	-6.9	-4.6	-0.7	+7.0	+37	+69	+87	+63	+10	+0.5	-0.8	+48	+2.2	-2.2	-3.0	-1.2	+0.5	+0.72	-12	+1.26	+1.18	+121	+121	+5
99%	-12.3	-8.8	+1.3	+8.4	+30	+58	+72	+45	+7	-0.2	+1.2	+38	+0.2	-3.3	-4.3	-2.0	-0.1	+0.97	-20	+1.40	+1.32	+79	+79	+4

\* The percentile bands represent the distribution of EBVs across the 2020 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2022 TransTasman Angus Cattle Evaluation.



## 2021 Hardhat Bull Sale



Top price bull at 2021 sale sold for \$19,000. He has two maternal brothers for sale, Lot 1 and Lot 21.





HARDHAT



ANGUS

“WHERE *Cows* THAT LAST  
BREED *Bulls* THAT LAST”