HARDHAT

ANGUS

Annual Bull Sale

19 Bulls (Two year old)

10 Yearling Sires (14 - 19 mths old)

Thursday 14th September 2023 - 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 - Rennylea Kodak K522

Lot 1
S101

Lot 2
DKK21S38

Lot 3
S50

Lot 7
S126

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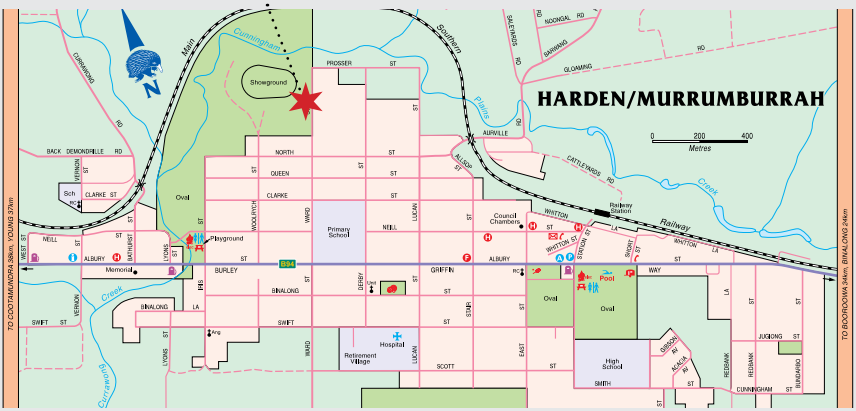
Sale Location
Harden Showground

Location Map



AuctionsPlus

Selling Agents

Aaron Seaman's strategic livestock marketing

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

Jim Hindmarsh & Co
Nick Harton 0418 571 711

Contact Information

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Email: bcavanagh1984@gmail.com

Brad, Jess, Olive, Henry & Fleur Cavanagh

Malcolm and Alana Cavanagh

Harden Showground Cattle Shed

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 carcase 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 you herd in different areas.

We used GAR Quantum as a carcase merit sire with good structural data. He has performed well. He has proven to breed impressive early growth, plenty of milk, high fertility, huge eye muscle area, carcase yield and marbling. We see him as one the most balanced Gardiner Angus Ranch sires to date.

GAR Quantum (GAR Momentum x Connealy In Sure)

His two year old daughters are calving down extremely well and we are excited as to what their progeny will bring to the table.

Rennylea Kodak K522

We have some more bulls by our resident herd sire Rennylea Kodak K522 in this years sale. 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 2022 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.

Hardhat Nebraska N43

Hardhat Nebraska N43 is owned by Boonaroo Angus and was the top price bull in 2019. He is the ultimate curve bending sire. He has proven to be an elite Calving Ease bull and sit in the TOP 3% Calving Ease, TOP 5% Calving Ease Daughters and Top 2% for Gestation Length. Meanwhile his growth spread is +2.0 for BW through to +144 at 600 days. In addition he is at TOP 1% Scrotal bull at +5.2. We have found his daughters are always calving at the start of the calving period. Structurally N43 is very solid.

The maternal line behind N43 is Kansas Annie F143, dam of lot 11 and lot 13. F143 was a powerhouse Sitz Upward daughter who bred extremely well to many of our sires. F143 will have many ET progeny coming through over the next couple of years.

The Kansas Annie cow family is the heart of the Hardhat herd with a huge contribution to this years sale offering.

Kind Regards,

Brad Cavanagh - 0428638384

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)

STG Australia

NEW RELEASE SIRE

ANGUS

Alpine Ronaldo R232

H P C A Intensity

SIRE: **Rennylea N452**

Rennylea Eisa 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	RBY	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%

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

	$VALUES	RANK
FOOT ANGLE	+0.76	8%
CLAW SET	+0.72	23%
$A	$252	7%
$A+L	$413	7%

SCAN QR code to view video footage.

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

STG Australia

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 2023 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, carcase, 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 carcase 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, carcase merit, feed efficiency and structural soundness. A description of each EBV included in this sale catalogue is provided on the following pages.

HARDHAT H708 MAIMURU J51 M41

Hardhat H708 Maimuru J51 M41 (Pictured below as 2 year old in 2018)

Maimuru M41 was purchased by David and Louise Crawford at our first bull sale in 2018 and was our representative in the Angus Sire Benchmarking Program (ASBP) Cohort 9.

The ASBP is the most comprehensive Beef sire benchmarking program in the world. Sires included are performance recorded for calving ease, growth, temperament, heifer reproduction, structure, feed efficiency, abattoir carcase and beef quality attributes.

Hardhat Maimuru M41 went on to dominate cohort 9 for Marbling performance as seen in the performance table above right. We are extremely proud of his carcase performance.

This result is a great example of what our breeding program can achieve when we combine great cow making lines with high carcase merit lines.

Hardhat Maimuru M41 now has an IMF EBV of +6.7 placing in the top few highly proven sires of the Angus breed. He is currently ranked 11th in the Angus Breed for IMF

HARDHAT H708 MAIMURU J51 M41

Angus Sire Benchmarking Program - Summary of Progeny Performance											
	Birth		Growth			Carcase (Scanning)				Feed Efficiency	Heifer Fertility
	Gestation Length (days)	Birth Weight (kg)	200 Day Weight (kg)	400 Day Weight (kg)	600 Day Weight (kg)	Scan Eye Muscle Area (cm^2)	Scan Rib Fat (mm)	Scan Rump Fat (mm)	Scan IMF (%)	NFI-F (kg/day)	Days to Calving (days)
Number of Progeny	29	30	26	20	17	24	22	24	24	13	10
Average Progeny Performance	281.6	32.1	194.1	371.3	649.7	66.1	9.7	9.7	7.9	-3.2	311.2
Sire Rank	18	4	5	8	12	14	3	1	1	10	18

	Carcase (Abattoir)								
	Carcase Weight (kg)	Carcase Eye Muscle Area (cm^2)	Carcase Rib Fat (mm)	Carcase Rump Fat (mm)	Carcase IMF (%)	MSA Marble Score (score)	MSA Ossification (score)	MSA index (index)	Shear Force (kg)
Number of Progeny	13	13	13	13	13	13	13	13	-
Average Progeny Performance	471.0	88.8	17.7	20.5	13.0	584.8	142.6	67.0	-
Sire Rank	17	18	7	19	1	3	8	1	-

among sires with an IMF accuracy of over 80%. Not many sires get above 80% accuracy for carcase traits.

The granddam of Hardhat Maimuru M41 is Hardhat Mittagong E10 who is pictured to the right. We see Mittagong E10 as a text book Angus cow. The cow quality behind M41 is what differentiates him from elite carcase sires.

We have 3 sons of M41 in this years sale.

Hardhat Mittagong E10

Recommendations for the introduction and management of your new bull:

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			
Calving Ease Direct	(%)	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.
Calving Ease Daughters	(%)	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.
Gestation Length	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.
Birth Weight	kg	Genetic differences between animals in calf weight at birth.	Lower EBVs indicate lighter birth weight.
GROWTH			
200 Day Growth	kg	Genetic differences between animals in live weight at 200 days of age due to genetics for growth.	Higher EBVs indicate heavier live weight.
400 Day Weight	kg	Genetic differences between animals in live weight at 400 days of age.	Higher EBVs indicate heavier live weight.
600 Day Weight	kg	Genetic differences between animals in live weight at 600 days of age.	Higher EBVs indicate heavier live weight.
Mature Cow Weight	kg	Genetic differences between animals in live weight of cows at 5 years of age.	Higher EBVs indicate heavier mature weight.
Milk	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			
Days to Calving	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.
Scrotal Size	cm	Genetic differences between animals in scrotal circumference at 400 days of age.	Higher EBVs indicate larger scrotal circumference.
CARCASE			
Carcase Weight	kg	Genetic differences between animals in hot standard carcase weight at 750 days of age.	Higher EBVs indicate heavier carcase weight.
Eye Muscle Area	cm^2	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.
Rib Fat	mm	Genetic differences between animals in fat depth at the 12/13th rib site in a 400 kg carcase.	Higher EBVs indicate more fat.
Rump Fat	mm	Genetic differences between animals in fat depth at the P8 rump site in a 400 kg carcase.	Higher EBVs indicate more fat.
Retail Beef Yield	%	Genetic differences between animals in boned out saleable meat from a 400 kg carcase.	Higher EBVs indicate higher yield.
Intramuscular Fat	%	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			
Net Feed Intake (Post Weaning)	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.
Net Feed Intake (Feedlot)	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.
TEMPERAMENT			
Docility	%	Genetic differences between animals in temperament.	Higher EBVs indicate better temperament.
STRUCTURE			
Front Feet Angle	%	Genetic differences between animals in desirable front feet angle (strength of pastern, depth of heel).	Higher EBVs indicate more desirable structure.
Front Feet Claw Set	%	Genetic differences between animals in desirable front feet claw set structure (shape and evenness of claw).	Higher EBVs indicate more desirable structure.
Rear Feet Angle	%	Genetic differences between animals in desirable rear feet angle (strength of pastern, depth of heel).	Higher EBVs indicate more desirable structure.
Rear Leg Hind View	%	Genetic differences between animals in desirable rear leg structure when viewed from behind.	Higher EBVs indicate more desirable structure.
Rear Leg Side View	%	Genetic differences between animals in desirable rear leg structure when viewed from the side.	Higher EBVs indicate more desirable structure.
SELECTION INDEXES			
Angus Breeding Index	$	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.
Domestic Index	$	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.
Heavy Grain Index	$	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.
Heavy Grass Index	$	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, Arthrogryposis 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 i 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 o 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

IMPORTANT NOTICES FOR PURCHASERS

~ SALE CATALOGUE DISCLAIMER ~

All reasonable care has been taken by the vendor to ensure that the information provided in this catalogue is correct at the time of publication. However, neither the vendor nor the selling agents make any other representations about the accuracy, reliability or completeness of any information provided in this catalogue and do not assume any responsibility for the use or interpretation of the information included in this catalogue. You are encouraged to seek independent verification of any information contained in this catalogue before relying on such information.

~ DNA PATERNITY VERIFICATION ~

It is a requirement of Angus Australia that all bulls used to sire calves for registration in the Angus Australia Herd Book Register, Red Angus Register or Angus Performance Register must have been DNA paternity verified if they are born in or after the 'Y' year (2003). Buyers intending to use bulls listed in this catalogue to produce calves to be registered in these registers should obtain DNA paternity verification on those bulls before they are used for breeding.

~ PRIVACY INFORMATION ~

In order for Angus Australia to process the transfer of a registered animal in this catalogue, the vendor will need to provide certain information to Angus Australia and the buyer consents to the collection and disclosure of that information by Angus Australia in certain circumstances. If the buyer does not wish for his or her information to be stored and disclosed by Angus Australia, the buyer must complete the form included below and forward it to Angus Australia. If the form is not completed, the buyer will be taken to have consented to the disclosure of such information.

BUYER'S OPTION TO OPT OUT OF DISCLOSING PERSONAL INFORMATION TO THE ANGUS AUSTRALIA

If you do not complete this form, you will be taken to have consented to Angus Australia using your name, address and phone number for the purposes of effecting a change of registration of the animal(s) that you have purchased, maintaining its databases and disclosing that information to its members on its website.

I, the buyer of animals with the following registration numbers .... from member ..... (name) do <u>not</u> consent to Angus Australia using my name, address and phone number for the purposes of effecting a change of registration of the following animal(s) that I have purchased, maintaining its databases and disclosing that information to its members on its website.

Signature: .....

Date: .....

Please forward this completed consent form to Angus Australia, Glen Innes Road, Locked Bag 11, Armidale NSW 2350. If you have any queries, please telephone 02 6772 3011 or e-mail office@angusaustralia.com.au.

Hardhat Angus 2023 Bull Sale

Animal Ident		Calving Ease				Growth					Fertility				Carcase					Feed	Temp.	Structural			Selection Indexes	
		CEDir	CEDtrs	GL	BWT	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	DOM	GRN
1	DKK21S101	-1.4	-1.0	-1.5	+7.0	+55	+98	+130	+135	+13	+3.1	-3.9	+61	+7.3	+0.6	-0.3	+0.7	+1.1	+0.04	+14	+0.64	+0.78	+0.90	$143	$223
2	DKK21S38	+2.3	-0.7	-5.3	+4.1	+60	+105	+129	+113	+20	+3.1	-3.5	+67	+6.6	-2.0	-2.5	+0.8	+1.8	-0.29	+25	+0.80	+1.12	+1.02	$179	$280
3	DKK21S50	+6.0	+7.2	-3.4	+1.9	+39	+80	+100	+91	+16	+4.1	-4.2	+49	+6.3	+0.2	-0.5	+0.5	+4.0	+0.70	+14	+0.72	+0.78	+0.92	$157	$247
4	DKK21S60	+5.8	+4.5	-7.1	+3.8	+49	+82	+103	+74	+19	+3.7	-5.6	+54	+7.7	+2.8	+1.2	+0.4	+3.1	+0.59	+10	+0.50	+0.88	+1.08	$191	$306
5	DKK21S28	+3.2	+5.7	-7.7	+2.8	+46	+88	+109	+79	+17	+0.8	-6.0	+59	+0.8	+3.0	+3.4	-0.6	+1.7	+0.01	+23	-	-	-	$173	$262
6	DKK21S68	+6.7	+9.8	-2.5	+1.9	+45	+71	+82	+57	+18	+3.4	-7.1	+39	+8.1	+2.8	+3.2	+0.4	+3.8	+0.81	+21	+0.54	+0.94	+0.98	$211	$334
7	DKK21S126	-0.6	-1.6	-6.0	+4.1	+55	+92	+111	+98	+19	+2.4	-4.6	+61	+7.4	-1.7	-2.3	+0.9	+1.6	-0.05	+17	+0.88	+0.96	+1.02	$169	$260
8	DKK21S106	-1.3	+1.3	-2.0	+6.3	+53	+93	+114	+109	+15	+4.7	-4.6	+54	-3.5	+2.3	+2.0	-1.2	+2.5	-0.01	+13	+0.98	+0.92	+1.26	$131	$207
9	DKK21S74	+3.1	+2.0	-3.5	+4.6	+47	+87	+110	+94	+13	+5.3	-5.4	+53	+10.1	+2.6	+2.9	+0.7	+1.7	+0.37	+14	+0.66	+0.86	+0.98	$180	$267
10	DKK21S49	+8.6	+4.6	-5.1	-1.4	+27	+50	+68	+19	+14	-0.3	-3.7	+28	+7.6	+4.1	+3.4	-0.4	+5.9	+0.43	+11	+1.00	+1.08	+0.98	$141	$284
11	DKK22T2	-1.9	-1.0	-9.2	+3.3	+55	+97	+120	+105	+19	+0.6	-3.5	+64	+6.6	-0.4	-0.3	-0.4	+3.7	+0.24	+31	+0.92	+0.86	-	$153	$279
12	DKK22T3	-1.3	-5.4	-5.6	+4.4	+57	+106	+133	+104	+26	+1.4	-2.8	+75	+5.4	-4.1	-5.8	+0.9	-0.7	-0.60	+10	-	-	-	$138	$204
13	DKK22T5	+7.7	+4.2	-6.7	+0.2	+33	+66	+78	+53	+19	+0.9	-4.1	+41	+14.3	+0.5	-0.2	+1.6	+0.9	+0.56	+29	+1.02	+0.98	-	$160	$240
14	DKK22T17	+6.7	+4.1	-9.4	+2.6	+56	+101	+134	+89	+27	+2.6	-5.0	+80	+4.6	-0.1	-1.5	-0.3	+3.5	+0.34	+22	-	-	-	$188	$318
15	DKK22T45	+3.5	+0.9	-10.1	+1.2	+37	+70	+87	+56	+21	+1.6	-2.3	+34	+13.9	+0.2	-0.7	+0.5	+5.5	+0.83	+17	+0.94	+0.94	+1.00	$147	$287
16	DKK22T35	+10.1	+6.6	-15.1	+1.4	+47	+85	+117	+92	+26	+4.9	-5.8	+61	+1.9	-0.1	-1.1	-0.9	+2.1	+0.56	+8	+1.06	+1.22	+1.02	$134	$221
17	DKK22T42	+0.9	-1.0	-6.4	+6.9	+58	+98	+131	+121	+19	+4.2	-5.8	+71	+2.6	-2.7	-2.6	+0.9	-1.2	-0.11	+5	+0.60	+0.84	+0.94	$152	$206
18	DKK22T47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	DKK22T73	-2.6	+4.3	-3.4	+5.0	+56	+97	+124	+98	+18	-1.2	-4.0	+73	+11.5	+2.3	+1.6	+1.3	-0.2	-0.40	+25	+0.76	+1.04	+1.04	$185	$290
20	DKK22T81	+0.7	+1.0	-3.2	+3.7	+62	+106	+135	+117	+10	+1.1	-4.5	+82	+3.4	+1.7	-0.7	-0.3	+2.8	-0.41	+22	+0.90	+0.90	+1.04	$179	$293
21	DKK21S80	+7.6	+4.6	-2.4	+1.8	+44	+82	+110	+75	+16	+0.7	-4.2	+61	+5.5	+2.3	+1.5	-0.3	+4.8	+0.30	+20	+1.00	+1.04	+1.10	$169	$304
22	DKK21S52	+4.1	+3.1	-4.1	+2.8	+45	+89	+111	+97	+17	+2.4	-3.6	+65	+7.1	+2.3	+2.2	-0.2	+3.5	+0.68	+20	+0.84	+1.24	+1.22	$157	$265
23	DKK21S94	+3.8	+2.1	-3.3	+3.7	+47	+84	+107	+88	+17	+1.6	-4.9	+59	+9.2	+1.2	+0.4	+1.0	+1.1	-0.04	+12	-	-	-	$172	$261
24	DKK21S77	-1.6	+0.3	+0.0	+5.9	+57	+99	+122	+118	+11	+3.1	-4.1	+69	+7.8	+0.3	-0.7	+0.5	+2.7	+0.34	+17	+0.74	+0.92	+0.92	$171	$271
25	DKK21S53	+2.0	+1.8	-6.0	+4.3	+49	+86	+100	+77	+14	+3.6	-3.3	+49	+12.5	+1.8	+1.5	+0.5	+2.3	+0.48	+20	+0.98	+1.14	+0.98	$173	$282
26	DKK21S136	-1.0	-1.4	-3.4	+4.4	+50	+83	+110	+116	+16	+2.0	-4.3	+59	+1.1	+1.8	+1.0	-0.7	+1.7	-0.27	+11	+0.80	+1.08	+1.02	$106	$188
27	DKK21S133	+5.7	+6.8	-8.8	+2.6	+48	+89	+112	+92	+18	+2.5	-4.8	+54	+8.7	-0.6	-1.5	+0.5	+3.5	+0.36	+18	-	-	-	$182	$292
28	DKK21S85	-5.6	-4.4	-0.6	+6.7	+62	+108	+137	+125	+18	+2.7	-3.1	+78	+10.8	-1.7	-2.6	+1.1	+1.5	+0.01	+15	-	-	-	$162	$262
29	DKK21S21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TACE	CEDir	CEDtrs	GL	BWT	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	DOM	GRN
	+2.2	+2.6	-4.8	+4.0	+50	+90	+117	+100	+17	+2.1	-4.7	+66	+6.3	+0.0	-0.3	+0.5	+2.2	+0.19	+20	+0.84	+0.97	+1.03	+163	+339

Harden Showground Cattle Shed

REFERENCE SIRES

RS G A R QUANTUM[PV] HBR

Ident: USA18636059 **DOB:** 18/08/2016 **Mating Type:** Natural

G A R PREDESTINED[#]
G A R PROGRESS[SV]
G A R OBJECTIVE 2345[#]
Sire: USA17354145 G A R MOMENTUM[PV]
ALC BIG EYE D09N[#]
G A R BIG EYE 1770[#]
G A R OBJECTIVE 3387[#]

MYTTY IN FOCUS[#]
CONNEALY IN SURE 8524[#]
ENTREENA OF CONANGA 657[#]
Dam: USA17965254 G A R IN SURE 1524[#]
SUMMITCREST COMPLETE 1P55[#]
G A R COMPLETE 3011[#]
G A R OBJECTIVE 277L[#]

Selection Indexes	
DOM	GRN
$197	$329

Traits Oberserved: *Genomics*
Genetic Conditions:
AMF,CAF,DDF,NHF,DWF,MHF,OHF, OSF,RGF

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+0.6**	**-1.6**	**-3.2**	**+4.9**	**+63**	**+109**	**+132**	**+109**	**+20**	**+3.2**	**+24**
Acc	74%	59%	98%	97%	95%	95%	94%	88%	84%	93%	54%
Perc	68	86	74	69	6	8	20	35	27	14	29
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-2.6**	**+77**	**+15.1**	**-1.9**	**-3.0**	**+1.2**	**+2.9**	**+0.44**	**+0.92**	**+1.06**	**+1.04**
Acc	53%	86%	86%	84%	82%	79%	86%	63%	96%	96%	65%
Perc	92	20	1	87	89	11	28	80	66	71	52

Statistics: Number of Herds: 5, Prog Analysed: 248, Genomic Prog: 35

RS HARDHAT H708 MAIMURU J51 M41[SV] APR

Ident: DKKM41 **DOB:** 29/07/2016 **Mating Type:** AI

G A R PREDESTINED[#]
RENNYLEA C511[PV]
RENNYLEA W449[SV]
Sire: NORH708 RENNYLEA H708[PV]
TE MANIA AFRICA A217[PV]
RENNYLEA E176[PV]
RENNYLEA B124[PV]

ARDROSSAN DIRECTION W109[PV]
ARDROSSAN DIRECTION A50[SV]
ARDROSSAN WILCOOLA W2[#]
Dam: DKKJ51 HARDHAT A50 MITTAGONG E10 J51[#]
BOOROOMOOKA UNDERTAKEN Y145[PV]
HARDHAT U170 MITTAGONG E10[PV]
KENNY'S CREEK MITTAGONG C75[SV]

Selection Indexes	
DOM	GRN
$159	$287

Traits Oberserved: *GL,CE,BWT, 200WT,400WT,600WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.7**	**+3.5**	**-2.4**	**+2.2**	**+45**	**+88**	**+116**	**+97**	**+10**	**+1.1**	**+26**
Acc	70%	56%	95%	93%	89%	89%	90%	83%	72%	79%	85%
Perc	42	44	84	15	71	56	53	55	95	84	23
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.1**	**+62**	**+2.6**	**+1.1**	**-2.4**	**-0.4**	**+6.7**	**+0.14**	**+1.00**	**+0.98**	**+1.06**
Acc	56%	88%	87%	86%	88%	78%	89%	81%	88%	88%	85%
Perc	66	64	89	24	83	91	1	44	79	52	59

REFERENCE SIRES

RS HARDHAT K522 KODAK M33 Q110[SV] HBR

Ident: DKKQ110 **DOB:** 06/09/2019 **Mating Type:** Natural

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

TE MANIA BARTEL B219[PV]
AYRVALE BARTEL E7[PV]
EAGLEHAWK JEDDA B32[SV]
Dam: DKKM33 HARDHAT E7 ANNIE K44 M33[#]
SINCLAIR EMULATION XXP[SV]
HARDHAT XXP ANNIE Y21 K44[#]
KANSAS ANNIE Y21[SV]

Selection Indexes	
DOM	GRN
$185	$288

Traits Oberserved: *CE,BWT, 400WT,SC,Scan(EMA,Rib,Rump,IMF) Structure(Claw Set x 1, Foot Angle x 1), Genomics*
Genetic Conditions: *AMF,CAF,DDF,NHF,DWF,MAF, MHF,OHF,OSF,RGF*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+7.2**	**+10.1**	**-8.2**	**+2.3**	**+49**	**+88**	**+117**	**+106**	**+16**	**+2.8**	**+11**
Acc	69%	56%	89%	89%	84%	79%	79%	76%	67%	75%	79%
Perc	14	1	8	16	57	57	51	40	62	23	89
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.9**	**+60**	**+7.4**	**-1.6**	**-3.4**	**+0.8**	**+3.7**	**+0.24**	**+0.64**	**+0.68**	**+0.76**
Acc	47%	71%	65%	68%	68%	63%	69%	60%	76%	76%	73%
Perc	19	70	35	82	92	28	14	58	13	4	2

Statistics: Number of Herds: 5, Prog Analysed: 34, Genomic Prog: 21

RS HARDHAT K522 NEBRASKA F143 N43[PV] HBR

Ident: DKKN43 **DOB:** 05/07/2017 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

CONNEALY ONWARD[#]
SITZ UPWARD 307R[SV]
SITZ HENRIETTA PRIDE 81M[#]
Dam: NKLF143 KANSAS ANNIE F143[SV]
ARDROSSAN DIRECTION W109[PV]
KANSAS ANNIE C10[SV]
KANSAS ANNIE Y21[SV]

Selection Indexes	
DOM	GRN
$170	$251

Traits Oberserved: *BWT,600WT,SC, Scan(EMA,Rib,Rump,IMF), Structure (Claw Set x 1, Foot Angle x 1), Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+10.0**	**+8.5**	**-10.2**	**+2.0**	**+61**	**+107**	**+142**	**+132**	**+15**	**+5.3**	**+7**
Acc	73%	60%	94%	95%	92%	91%	88%	83%	71%	85%	88%
Perc	3	4	2	13	10	10	9	10	63	1	96
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.8**	**+81**	**+3.1**	**+0.6**	**+0.2**	**-0.5**	**+0.3**	**+0.12**	**+0.76**	**+0.88**	**+0.90**
Acc	50%	87%	85%	85%	86%	77%	88%	78%	90%	90%	85%
Perc	21	13	85	34	40	93	92	42	32	28	12

REFERENCE SIRES

RS HARDHAT KODAK Q5[SV] HBR

Ident: DKKQ5 **DOB:** 24/02/2019 **Mating Type:** Natural

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

DUNOON EVIDENT E614[PV]
KANSAS EVIDENTLY J81[SV]
KANSAS ANNIE E109[E]
Dam: DKKM6 HARDHAT J81 ANNIE G158 M6[#]
SITZ UPWARD 307R[SV]
KANSAS ANNIE G158[SV]
KANSAS ANNIE X164[#]

Selection Indexes	
DOM	GRN
$181	$276

Traits Oberserved: *BWT,600WT,Scan (EMA,Rib,Rump,IMF),Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+6.2**	**+2.4**	**-3.9**	**+3.0**	**+50**	**+87**	**+112**	**+92**	**+18**	**+3.6**	**+14**
Acc	66%	54%	72%	83%	76%	73%	75%	73%	66%	69%	53%
Perc	21	56	64	27	48	59	61	63	44	8	77
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-6.3**	**+60**	**+6.1**	**+1.2**	**-0.1**	**+0.4**	**+2.1**	**+0.19**	**+0.60**	**+0.92**	**+1.00**
Acc	44%	67%	64%	66%	66%	61%	68%	58%	74%	69%	71%
Perc	13	69	51	22	46	53	49	51	9	37	39

Statistics: Number of Herds: 1, Prog Analysed: 13, Genomic Prog: 2

RS HARDHAT M518 QUANTUM L230 Q39[SV] HBR

Ident: DKKQ39 **DOB:** 21/07/2019 **Mating Type:** AI

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: VLYM518 LAWSONS MOMENTOUS M518[PV]
TE MANIA AFRICA A217[PV]
LAWSONS AFRICA H229[SV]
LAWSONS ROCKND AMBUSH E1103[PV]

G A R INGENUITY[#]
H P C A INTENSITY[#]
G A R PREDESTINED 287L[#]
Dam: NDIL230 KENNY'S CREEK L230[#]
SYDGEN TRUST 6228[#]
KENNY'S CREEK H389[#]
KENNY'S CREEK BARUNAH E275[SV]

Selection Indexes	
DOM	GRN
$184	$319

Traits Oberserved: *GL,BWT, 400WT,SC,Scan(EMA,Rump,IMF)Structure(Claw Set x 1, Foot Angle x 1), Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+5.6**	**+4.2**	**-4.5**	**+0.7**	**+39**	**+67**	**+76**	**+36**	**+18**	**+1.5**	**+26**
Acc	68%	57%	83%	84%	78%	76%	76%	75%	67%	77%	64%
Perc	26	37	54	4	91	96	99	99	39	71	23
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.8**	**+40**	**+10.2**	**+1.8**	**+1.6**	**+0.2**	**+4.8**	**+0.77**	**+0.76**	**+0.86**	**+0.88**
Acc	48%	69%	66%	68%	68%	63%	69%	59%	79%	79%	75%
Perc	46	98	12	14	18	66	4	97	32	24	9

REFERENCE SIRES

RS HARDHAT MR LINCOLN J18 L17[SV] HBR

Ident: DKKL17 **DOB:** 28/07/2015 **Mating Type:** AI

SCHURR 77 1346 EXCEL[#]
SCHURRTOP REALITY X723[#]
SCHURRTOP 8019 V141[#]
Sire: NZE14647008839 MATAURI REALITY 839[#]
TE MANIA ULONG U41[SV]
MATAURI 06663[#]
MATAURI 04456 AB[#]

BT RIGHT TIME 24J[#]
SINCLAIR GRASS MASTER[#]
N BAR PRIMROSE Y3051[#]
Dam: DKKJ18 HARDHAT RM RADO A12 J18[#]
ARISAIG INNOVATOR X8[#]
HARDHAT A12[#]
MILLAH MURRAH RADO W2[#]

Selection Indexes	
DOM	GRN
$148	$238

Traits Oberserved: *CE,BWT, 200WT,400WT,600WT,SC, Scan(EMA,Rib,Rump,IMF),Structure (Claw Set x 1, Foot Angle x 1), Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-0.1**	**+0.5**	**-4.4**	**+5.6**	**+53**	**+91**	**+110**	**+108**	**+15**	**+4.2**	**+18**
Acc	68%	60%	74%	82%	77%	77%	78%	74%	67%	79%	55%
Perc	72	73	56	81	37	46	65	36	70	3	61
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.2**	**+52**	**+5.0**	**+2.4**	**+1.5**	**-0.3**	**+2.3**	**+0.06**	**+0.64**	**+0.84**	**+1.08**
Acc	54%	69%	68%	69%	69%	65%	70%	61%	78%	78%	74%
Perc	64	86	65	8	19	88	43	34	13	20	65

Statistics: Number of Herds: 1, Prog Analysed: 17, Genomic Prog: 2

RS LAWSONS MIRACULOUS Q44[PV] HBR

Ident: VLYQ44 **DOB:** 06/03/2019 **Mating Type:** AI

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: VLYM518 LAWSONS MOMENTOUS M518[PV]
TE MANIA AFRICA A217[PV]
LAWSONS AFRICA H229[SV]
LAWSONS ROCKND AMBUSH E1103[PV]

MCC DAYBREAK[#]
G A R ANTICIPATION[#]
G A R 5050 NEW DESIGN 0530[#]
Dam: VLYK914 LAWSONS K914[SV]
LAWSONS TANK B1155[PV]
LAWSONS TANK B1155 G625[#]
LAWSONS GRADE UP D83[#]

Selection Indexes	
DOM	GRN
$206	$326

Traits Oberserved: *GL,BWT,200WT (x2),400WT(x2),SC,Scan (EMA,Rump,IMF),Genomics*
Genetic Conditions: *AMF,CAF,DDF,NHF,DWF,MAF, MHF,OHF,OSF,RGF*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.7**	**-1.1**	**-7.9**	**+3.3**	**+49**	**+91**	**+111**	**+98**	**+11**	**+2.6**	**+37**
Acc	72%	57%	97%	95%	91%	91%	88%	82%	71%	88%	78%
Perc	42	84	10	33	54	48	64	53	91	29	5
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.0**	**+49**	**+21.6**	**+0.9**	**+0.4**	**+2.0**	**+2.4**	**+0.94**	**+0.98**	**+0.96**	**+0.94**
Acc	49%	77%	76%	77%	77%	72%	77%	62%	70%	71%	68%
Perc	69	91	1	28	36	1	41	99	76	47	21

REFERENCE SIRES

RS LAWSONS MOMENTOUS M518[PV] HBR

Ident: VLYM518 **DOB:** 30/06/2016 **Mating Type:** AI

G A R PREDESTINED[#]
G A R PROGRESS[SV]
G A R OBJECTIVE 2345[#]
Sire: USA17354145 G A R MOMENTUM[PV]
ALC BIG EYE D09N[#]
G A R BIG EYE 1770[#]
G A R OBJECTIVE 3387[#]

TE MANIA ULONG U41[SV]
TE MANIA AFRICA A217[PV]
TE MANIA JEDDA Y32[SV]
Dam: VLYH229 LAWSONS AFRICA H229[SV]
B/R AMBUSH 28[#]
LAWSONS ROCKND AMBUSH E1103[PV]
LAWSONS FAIR DINKUM C565[PV]

Selection Indexes	
DOM	GRN
$177	$330

Traits Oberserved: *GL,BWT, 200WT(x2),400WT(x2),600WT, Scan(EMA,Rib,Rump,IMF),Genomics*
Genetic Conditions: *AMF,CAF,DDF,NHF,DWF,MAF, MHF,OHF,OSF,RGF*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-3.2**	**-4.6**	**-5.9**	**+4.0**	**+51**	**+94**	**+113**	**+85**	**+22**	**+2.6**	**+41**
Acc	96%	83%	99%	99%	99%	99%	99%	98%	97%	99%	98%
Perc	87	96	31	48	46	40	59	74	12	29	2
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.0**	**+50**	**+13.6**	**-0.9**	**-0.7**	**+0.6**	**+5.8**	**+0.87**	**+0.90**	**+0.98**	**+1.06**
Acc	72%	96%	94%	94%	94%	91%	94%	86%	99%	99%	98%
Perc	88	89	2	69	57	40	2	99	62	52	59

Statistics: Number of Herds: 115, Prog Analysed: 4331, Genomic Prog: 2343

RS RENNYLEA KODAK K522[SV] HBR

Ident: NORK522 **DOB:** 11/08/2014 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN U170[PV]
BOOROOMOOKA UNDERTAKEN Y145[PV]
BOOROOMOOKA UAAISE U101[SV]
Sire: NORE11 RENNYLEA EDMUND E11[PV]
YTHANBRAE HENRY VIII U8[SV]
LAWSONS HENRY VIII Y5[SV]
YTHANBRAE DIRECTION T270[#]

TE MANIA YORKSHIRE Y437[PV]
TE MANIA BERKLEY B1[PV]
TE MANIA LOWAN Z53[#]
Dam: NORF810 RENNYLEA EISA ERICA F810[#]
HYLINE RIGHT TIME 338[#]
RENNYLEA EISA ERICA C299[PV]
RENNYLEA EISA ERICA X571[#]

Selection Indexes	
DOM	GRN
$174	$276

Traits Oberserved: *GL,BWT, 200WT,400WT,600WT,SC, Scan(EMA,Rib,Rump,IMF),DOC, Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+10.6**	**+10.9**	**-5.5**	**+1.2**	**+46**	**+85**	**+111**	**+109**	**+10**	**+4.6**	**+6**
Acc	93%	80%	99%	99%	98%	98%	98%	97%	97%	98%	95%
Perc	2	1	37	6	69	67	63	35	94	2	97
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-6.3**	**+57**	**+4.3**	**+3.5**	**+2.0**	**-0.4**	**+4.1**	**+0.37**	**+0.62**	**+0.82**	**+1.00**
Acc	71%	95%	93%	93%	93%	91%	93%	86%	96%	96%	95%
Perc	13	77	73	3	14	91	9	74	11	17	39

REFERENCE SIRES

RS — S CHISUM 255[SV] — HBR

Ident: USA17298481 **DOB:** 15/03/2012 **Mating Type:** Natural

PAWS UP ALLIANCE 9561#
S ALLIANCE 3313#
PAWS UP 9048 EMULATION EXT#
Sire: USA15511451 S CHISUM 6175[PV]
S ECLIPSE 169#
S GLORIA 464#
S GLORIA 209#

H A IMAGE MAKER 0415#
SHIPWHEEL CHINOOK#
APEX ERISKAY 5506#
Dam: USA16661905 S BLOSSOM 0278#
R&S EXPEDITION 1404#
S BLOSSOM 8378#
S BLOSSOM 4190#

Selection Indexes	
DOM	GRN
$197	$309

Traits Oberserved: *Genomics*
Genetic Conditions:
AMF,CAF,DDF,NHF,DWF,MHF,OHF, OSF,RGF

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+5.0**	**+9.8**	**-4.4**	**+2.2**	**+52**	**+77**	**+91**	**+52**	**+17**	**+1.2**	**+36**
Acc	86%	68%	98%	98%	97%	97%	96%	92%	92%	96%	91%
Perc	31	2	56	15	41	85	92	98	46	81	5
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.1**	**+53**	**+9.5**	**+1.3**	**+2.2**	**+1.1**	**+0.3**	**+0.32**	**+0.84**	**+0.94**	**+1.02**
Acc	58%	89%	88%	88%	86%	83%	87%	67%	90%	89%	73%
Perc	66	85	16	21	12	14	92	68	49	42	45

Statistics: Number of Herds: 62, Prog Analysed: 658, Genomic Prog: 329

RS — SITZ STELLAR 726D[PV] — HBR

Ident: USA18397542 **DOB:** 23/01/2016 **Mating Type:** Natural

H A IMAGE MAKER 0415#
BENFIELD SUBSTANCE 8506#
BENFIELD EDELLA 1105#
Sire: USA17292558 MOHNEN SUBSTANTIAL 272#
LT TERRITORY 5824 OF EA#
MOHNEN GLYN MAWR ELBA 1758#
MOHNEN GLYN MAWR ELBA 1345#

CONNEALY PRODUCT 568#
CONNEALY FINAL PRODUCT[PV]
EBONISTA OF CONANGA 471#
Dam: USA17776820 SITZ PRIDE 200B#
SITZ UPWARD 307R[SV]
SITZ PRIDE 308Y#
SITZ PRIDE 44P#

Selection Indexes	
DOM	GRN
$218	$326

Traits Oberserved: *Genomics*
Genetic Conditions:
AMF,CAF,DDF,NHF,DWF,MAF, MHF,OHF,OSF

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+5.5**	**+7.5**	**-9.6**	**+2.5**	**+55**	**+106**	**+133**	**+99**	**+18**	**+1.3**	**+29**
Acc	79%	50%	98%	98%	97%	97%	96%	89%	83%	94%	93%
Perc	27	9	3	19	26	12	20	52	40	78	16
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-6.4**	**+64**	**+4.9**	**+4.0**	**+3.6**	**-0.1**	**+1.5**	**+0.27**	**+0.62**	**+0.80**	**+1.14**
Acc	44%	86%	86%	84%	81%	77%	86%	57%	99%	99%	78%
Perc	12	55	66	2	4	81	67	62	11	14	81

REFERENCE SIRES

RS **SITZ UPWARD 307R^{SV}** **HBR**

Ident: USA14963730 **DOB:** 12/03/2005 **Mating Type:** Natural

CONNEALY LEADTIME#
CONNEALY LEAD ON#
ELIGENCE PLUS OF CONANGA#
Sire: USA14216491 CONNEALY ONWARD#
G A R TRAVELER 1489#
ALTUNE OF CONANGA 6104#
AVALON 1418 OF CONANGA 6276#

SITZ TRAVELER 6802#
SITZ VALUE 7097#
SITZ EISA EVERGREEN 791#
Dam: USA14087650 SITZ HENRIETTA PRIDE 81M#
O C C GREAT PLAINS 943G#
SITZ HENRIETTA PRIDE 1370#
SITZ HENRIETTA PRIDE 2155#

Selection Indexes	
DOM	GRN
$160	$239

Traits Oberserved: *Genomics*
Genetic Conditions:
AMF,CAF,DDF,NHF,MAF

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-0.4**	**+1.3**	**-4.2**	**+4.1**	**+60**	**+107**	**+130**	**+102**	**+26**	**+2.1**	**-3**
Acc	96%	92%	99%	99%	98%	98%	98%	98%	98%	98%	97%
Perc	74	67	59	51	12	11	24	46	3	48	99
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.2**	**+82**	**+7.4**	**-2.4**	**-5.8**	**+0.7**	**+0.1**	**-0.16**	**+1.02**	**+0.78**	**+1.02**
Acc	85%	97%	96%	96%	96%	95%	96%	90%	99%	99%	95%
Perc	85	11	35	92	99	33	94	13	82	11	45

Statistics: Number of Herds: 93, Prog Analysed: 1283, Genomic Prog: 111

Lot 1 — HARDHAT S101[SV] — HBR

Ident: DKK21S101 **DOB:** 15/08/2021 **Mating Type:** Natural

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Sire: DKKQ5 HARDHAT KODAK Q5[SV]
KANSAS EVIDENTLY J81[SV]
HARDHAT J81 ANNIE G158 M6[#]
KANSAS ANNIE G158[SV]

TC ABERDEEN 759[SV]
KANSAS ABERDEEN F84[SV]
KANSAS ANNIE D62[#]
Dam: NKLK182 KANSAS K182[#]
S A V NET WORTH 4200[#]
KANSAS BEAUTY F136[#]
KANSAS BEAUTY B45[#]

Selection Indexes	
DOM	GRN
$143	$223

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.4**	**-1.0**	**-1.5**	**+7.0**	**+55**	**+98**	**+130**	**+135**	**+13**	**+3.1**	**+14**
Acc	54%	43%	66%	70%	70%	67%	68%	65%	58%	63%	39%
Perc	80	83	91	95	26	27	24	8	80	16	80
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.9**	**+61**	**+7.3**	**+0.6**	**-0.3**	**+0.7**	**+1.1**	**+0.04**	**+0.64**	**+0.78**	**+0.90**
Acc	35%	58%	57%	59%	59%	52%	62%	49%	65%	64%	61%
Perc	72	65	36	34	49	33	77	32	13	11	12

Comments: A stylish bull loaded with power! The BEST FOOTED bull in the sale. Use this sire to add growth, fertility, feed efficiency and improve hoof shape in your herd.

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

Lot 2 — HARDHAT S38[SV] — HBR

Ident: DKK21S38 **DOB:** 19/07/2021 **Mating Type:** AI

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: USA18636059 G A R QUANTUM[PV]
CONNEALY IN SURE 8524[#]
G A R IN SURE 1524[#]
G A R COMPLETE 3011[#]

S A V REGISTRY 2831[#]
S A V SENSATION 5615[SV]
S A V BLACKCAP MAY 4136[#]
Dam: DKKP66 HARDHAT SENS BARA L18 P66[#]
S CHISUM 6175[PV]
KENNY'S CREEK BARA L18[SV]
KENNY'S CREEK BARA G594[#]

Selection Indexes	
DOM	GRN
$179	$280

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+2.3**	**-0.7**	**-5.3**	**+4.1**	**+60**	**+105**	**+129**	**+113**	**+20**	**+3.1**	**+25**
Acc	55%	44%	82%	72%	72%	70%	70%	67%	61%	67%	33%
Perc	55	82	41	51	11	13	26	28	26	16	25
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.5**	**+67**	**+6.6**	**-2.0**	**-2.5**	**+0.8**	**+1.8**	**-0.29**	**+0.80**	**+1.12**	**+1.02**
Acc	36%	61%	61%	62%	61%	55%	64%	49%	70%	70%	57%
Perc	80	47	44	88	84	28	58	6	40	82	45

Comments: S38 is possibly the most impressive bull in the flesh we have ever bred. Very balanced data with explosive EARLY GROWTH and FEED EFFICIENCY. A bull with dimension and scale from every angle.S38 has a huge amaount of visible muscle over his topline and hindquarter. Standing on great feet and legs makes him appealling to the most astute judge. The maternal heritage of

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

Lot 3 — HARDHAT S50[SV] — HBR

Ident: DKK21S50 **DOB:** 21/07/2021 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

G A R MOMENTUM[PV]
LAWSONS MOMENTOUS M518[PV]
LAWSONS AFRICA H229[SV]
Dam: DKKQ40 HARDHAT M518 SPICE GIRL J520 Q40[#]
SINCLAIR GRASS MASTER[#]
HARDHAT GM SPICE GIRL Y97 J520[PV]
KANSAS SPICE GIRL Y97[SV]

Selection Indexes	
DOM	GRN
$157	$247

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+6.0**	**+7.2**	**-3.4**	**+1.9**	**+39**	**+80**	**+100**	**+91**	**+16**	**+4.1**	**+14**
Acc	63%	53%	82%	73%	74%	72%	72%	71%	66%	69%	56%
Perc	22	10	72	12	91	79	82	66	62	4	79
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.2**	**+49**	**+6.3**	**+0.2**	**-0.5**	**+0.5**	**+4.0**	**+0.70**	**+0.72**	**+0.78**	**+0.92**
Acc	45%	66%	65%	66%	67%	62%	69%	59%	68%	68%	67%
Perc	64	91	48	43	53	46	10	95	24	11	16

Comments: S50 is a CALVING EASE, HIGH MARBLING bull with incredible balance. His easy fleshing nature and structural soundness makes him a favorite at Hardhat. Use over heifers to increase carcase quality and improve structure.

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

Lot 4 — HARDHAT S60[SV] — HBR

Ident: DKK21S60 **DOB:** 22/07/2021 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

G A R MOMENTUM[PV]
LAWSONS MOMENTOUS M518[PV]
LAWSONS AFRICA H229[SV]
Dam: DKKQ27 HARDHAT M518 ANNIE F113 Q27[#]
SITZ UPWARD 307R[SV]
KANSAS ANNIE F113[SV]
KANSAS ANNIE Y66[#]

Selection Indexes	
DOM	GRN
$191	$306

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+5.8**	**+4.5**	**-7.1**	**+3.8**	**+49**	**+82**	**+103**	**+74**	**+19**	**+3.7**	**+10**
Acc	63%	54%	73%	72%	73%	71%	72%	71%	66%	69%	57%
Perc	24	33	16	44	57	74	77	86	36	7	92
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.6**	**+54**	**+7.7**	**+2.8**	**+1.2**	**+0.4**	**+3.1**	**+0.59**	**+0.50**	**+0.88**	**+1.08**
Acc	45%	66%	65%	66%	66%	62%	69%	59%	69%	69%	69%
Perc	25	83	32	6	23	53	24	91	3	28	65

Comments: S60 similar to the previous lot is a HIGH MARBLING, CALVING EASE bull who ranks in the top 3% of the breed for claw shape. The Kodak x Momentous pedigree is a great breeding combination that we will repeat for many years. Very balanced dataset!

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

Lot 5 — HARDHAT S28[SV] — HBR

Ident: DKK21S28 **DOB:** 18/07/2021 **Mating Type:** AI

BENFIELD SUBSTANCE 8506#
MOHNEN SUBSTANTIAL 272#
MOHNEN GLYN MAWR ELBA 1758#
Sire: USA18397542 SITZ STELLAR 726D[PV]
CONNEALY FINAL PRODUCT[PV]
SITZ PRIDE 200B#
SITZ PRIDE 308Y#

N BAR EMULATION EXT#
SINCLAIR EMULATION XXP[SV]
N BAR PRIMROSE Y3051#
Dam: DKKL35 HARDHAT XXP MITTAGONG E10 L35#
BOOROOMOOKA UNDERTAKEN Y145[PV]
HARDHAT U170 MITTAGONG E10[PV]
KENNY'S CREEK MITTAGONG C75[SV]

Selection Indexes	
DOM	GRN
$173	$262

Traits Oberserved: *BWT*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.2**	**+5.7**	**-7.7**	**+2.8**	**+46**	**+88**	**+109**	**+79**	**+17**	**+0.8**	**+23**
Acc	54%	39%	65%	67%	66%	65%	64%	62%	55%	61%	52%
Perc	47	22	11	23	67	58	67	82	48	90	35
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-6.0**	**+59**	**+0.8**	**+3.0**	**+3.4**	**-0.6**	**+1.7**	**+0.01**	**-**	**-**	**-**
Acc	33%	57%	57%	58%	57%	53%	58%	43%	-	-	-
Perc	18	71	96	5	5	95	61	28	-	-	-

Comments: S28 is a deep sided Stellar son with amazing breed character.a POSITIVE FAT bull that will add doing ability and type to your herd.

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

Lot 6 — HARDHAT S68[SV] — HBR

Ident: DKK21S68 **DOB:** 24/07/2021 **Mating Type:** AI

S ALLIANCE 3313#
S CHISUM 6175[PV]
S GLORIA 464#
Sire: USA17298481 S CHISUM 255[SV]
SHIPWHEEL CHINOOK#
S BLOSSOM 0278#
S BLOSSOM 8378#

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810#
Dam: DKKQ88 HARDHAT K522 ANNIE M78 Q88#
TE MANIA GOTHENBURG G950[PV]
HARDHAT G950 ANNIE F38 M78#
KANSAS ANNIE F38[SV]

Selection Indexes	
DOM	GRN
$211	$334

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DD13%,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+6.7**	**+9.8**	**-2.5**	**+1.9**	**+45**	**+71**	**+82**	**+57**	**+18**	**+3.4**	**+21**
Acc	60%	48%	81%	72%	72%	70%	70%	67%	63%	67%	53%
Perc	17	2	83	12	74	93	97	96	42	11	44
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-7.1**	**+39**	**+8.1**	**+2.8**	**+3.2**	**+0.4**	**+3.8**	**+0.81**	**+0.54**	**+0.94**	**+0.98**
Acc	39%	62%	61%	62%	62%	57%	64%	51%	69%	68%	64%
Perc	5	98	28	6	6	53	13	98	5	42	32

Comments: S68 is an elite heifer bull with great softness and doing ability. An all round carcase performer with HIGH EMA, FAT and MARBLING. Another bull with oustanding structural information for claw shape and angle.

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

Lot 7 — HARDHAT S126[SV] — HBR

Ident: DKK21S126 **DOB:** 10/09/2021 **Mating Type:** Natural

G A R MOMENTUM[PV]
LAWSONS MOMENTOUS M518[PV]
LAWSONS AFRICA H229[SV]
Sire: DKKQ39 HARDHAT M518 QUANTUM L230 Q39[SV]
H P C A INTENSITY[#]
KENNY'S CREEK L230[#]
KENNY'S CREEK H389[#]

BT RIGHT TIME 24J[#]
SINCLAIR GRASS MASTER[#]
N BAR PRIMROSE Y3051[#]
Dam: DKKN208 HARDHAT N208[#]
SITZ UPWARD 307R[SV]
KANSAS RITA F181[SV]
KANSAS ANNIE C10[SV]

Selection Indexes	
DOM	GRN
$169	$260

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-0.6**	**-1.6**	**-6.0**	**+4.1**	**+55**	**+92**	**+111**	**+98**	**+19**	**+2.4**	**+17**
Acc	55%	45%	69%	69%	71%	68%	68%	66%	59%	66%	43%
Perc	75	86	30	51	26	44	63	54	36	36	67
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.6**	**+61**	**+7.4**	**-1.7**	**-2.3**	**+0.9**	**+1.6**	**-0.05**	**+0.88**	**+0.96**	**+1.02**
Acc	37%	59%	59%	61%	61%	54%	64%	51%	67%	67%	63%
Perc	52	65	35	84	82	23	64	22	58	47	45

Comments: S126 is a long fronted bull with great natural thickness throughout. His dam Annie N208 is a full sister to our current donor team member Annie N26. The SAV Renown cows in our herd are amazing!

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

Lot 8 — HARDHAT S106[SV] — APR

Ident: DKK21S106 **DOB:** 20/08/2021 **Mating Type:** Natural

SCHURRTOP REALITY X723[#]
MATAURI REALITY 839[#]
MATAURI 06663[#]
Sire: DKKL17 HARDHAT MR LINCOLN J18 L17[SV]
SINCLAIR GRASS MASTER[#]
HARDHAT RM RADO A12 J18[#]
HARDHAT A12[#]

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Dam: DKKQ102 HARDHAT K522 ANNIE M46 Q102[#]
HARDHAT GM AGRONOMIST Y21 J516[PV]
HARDHAT J516 OF K69 M46[#]
UNKNOWN

Selection Indexes	
DOM	GRN
$131	$207

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AM2%,CA2%,DD2%,NH2%

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.3**	**+1.3**	**-2.0**	**+6.3**	**+53**	**+93**	**+114**	**+109**	**+15**	**+4.7**	**+13**
Acc	54%	45%	67%	69%	69%	66%	67%	65%	57%	64%	38%
Perc	79	67	87	90	33	43	57	35	68	2	82
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.6**	**+54**	**-3.5**	**+2.3**	**+2.0**	**-1.2**	**+2.5**	**-0.01**	**+0.98**	**+0.92**	**+1.26**
Acc	37%	58%	58%	60%	60%	53%	63%	50%	64%	64%	61%
Perc	52	83	99	9	14	99	38	26	76	37	97

Comments: S106 is a big long bodied Hardhat L17 son. L17 produced our top priced bull in 2020 and this bull is a similar type. High early growth, FERTILITY and FEED EFFICIENCY.

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

Lot 9 — HARDHAT S74[SV] — HBR

Ident: DKK21S74 **DOB:** 25/07/2021 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN Y145[PV]
RENNYLEA EDMUND E11[PV]
LAWSONS HENRY VIII Y5[SV]
Sire: NORK522 RENNYLEA KODAK K522[SV]
TE MANIA BERKLEY B1[PV]
RENNYLEA EISA ERICA F810[#]
RENNYLEA EISA ERICA C299[PV]

RITO 707 OF IDEAL 3407 7075[#]
S A V RESOURCE 1441[PV]
S A V BLACKCAP MAY 4136[#]
Dam: DKKM59 HARDHAT RES WINKIE W03 M59[#]
NOONEE ULMARRA U19[#]
HARDHAT WINKIE W03[#]
NOONEE WINKIE P121+94[#]

Selection Indexes	
DOM	GRN
$180	$267

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.1**	**+2.0**	**-3.5**	**+4.6**	**+47**	**+87**	**+110**	**+94**	**+13**	**+5.3**	**+14**
Acc	62%	53%	83%	74%	73%	71%	72%	70%	66%	69%	55%
Perc	48	60	70	62	63	60	65	60	83	1	79
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.4**	**+53**	**+10.1**	**+2.6**	**+2.9**	**+0.7**	**+1.7**	**+0.37**	**+0.66**	**+0.86**	**+0.98**
Acc	44%	65%	64%	66%	66%	61%	68%	57%	69%	69%	68%
Perc	30	85	13	7	7	33	61	74	15	24	32

Comments: S74 is from a repeated mating we have been doing for years with great success. Rennylea Kodak K522 x SAV Resource. GREAT FERTILITY! the top 1% of the breed for Scrotal. HIGH EMA, POSITIVE FATS and excellent STRUCTURAL DATA.

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

Lot 10 — HARDHAT S49[SV] — APR

Ident: DKK21S49 **DOB:** 21/07/2021 **Mating Type:** AI

RENNYLEA C511[PV]
RENNYLEA H708[PV]
RENNYLEA E176[PV]
Sire: DKKM41 HARDHAT H708 MAIMURU J51 M41[SV]
ARDROSSAN DIRECTION A50[SV]
HARDHAT A50 MITTAGONG E10 J51[#]
HARDHAT U170 MITTAGONG E10[PV]

BON VIEW NEW DESIGN 1407[#]
MURRAY 1407 Z366[SV]
MURRAY DIRECTION X323[#]
Dam: DKKK33 HARDHAT Z366 DIANA E19 K33[#]
S A V 5175 BANDO 0699[#]
HARDHAT 0699 DIANA E19[#]
HARDHAT DIANA X07[#]

Selection Indexes	
DOM	GRN
$141	$284

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+8.6**	**+4.6**	**-5.1**	**-1.4**	**+27**	**+50**	**+68**	**+19**	**+14**	**-0.3**	**+11**
Acc	55%	44%	82%	73%	72%	70%	71%	68%	60%	65%	51%
Perc	7	32	44	1	99	99	99	99	74	99	88
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.7**	**+28**	**+7.6**	**+4.1**	**+3.4**	**-0.4**	**+5.9**	**+0.43**	**+1.00**	**+1.08**	**+0.98**
Acc	40%	64%	64%	65%	65%	58%	67%	56%	66%	66%	64%
Perc	76	99	33	2	5	91	1	79	79	75	32

Comments: S49 is a proven BOMBPROOF CALVING EASE bull and was used over stud heifers in 2022. He is now in the top 1% for MARBLING and in the top 2% for RIB FAT and 5% for RUMP FAT. He has very impressive muscle shape for a +5.9 Marbling bull. For

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

Lot 11 — HARDHAT M518 TATUM T2[PV] — HBR

Ident: DKK22T2 **DOB:** 14/02/2022 **Mating Type:** ET

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: VLYM518 LAWSONS MOMENTOUS M518[PV]
TE MANIA AFRICA A217[PV]
LAWSONS AFRICA H229[SV]
LAWSONS ROCKND AMBUSH E1103[PV]

CONNEALY ONWARD[#]
SITZ UPWARD 307R[SV]
SITZ HENRIETTA PRIDE 81M[#]
Dam: NKLF143 KANSAS ANNIE F143[SV]
ARDROSSAN DIRECTION W109[PV]
KANSAS ANNIE C10[SV]
KANSAS ANNIE Y21[SV]

Selection Indexes	
DOM	GRN
$153	$279

Traits Oberserved: *BWT,600WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.9**	**-1.0**	**-9.2**	**+3.3**	**+55**	**+97**	**+120**	**+105**	**+19**	**+0.6**	**+31**
Acc	66%	57%	73%	74%	75%	74%	74%	72%	68%	73%	62%
Perc	82	83	4	33	27	31	44	41	33	93	11
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.5**	**+64**	**+6.6**	**-0.4**	**-0.3**	**-0.4**	**+3.7**	**+0.24**	**+0.92**	**+0.86**	**-**
Acc	48%	68%	67%	68%	69%	63%	70%	61%	63%	67%	-
Perc	80	56	44	58	49	91	14	58	66	24	-

Comments: T2 is one of the picks of the sale. We love his structural soundness. He has a strong head and powerful outlook. His dam has produced many of our best! Including our top priced bull in 2019 N43 who sold to Boonaroo Angus and did very well. T2 has an amazing depth of rib and walks on great feet and legs.

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

Lot 12 — HARDHAT UPWARD T3[PV] — HBR

Ident: DKK22T3 **DOB:** 18/02/2022 **Mating Type:** ET

CONNEALY LEAD ON[#]
CONNEALY ONWARD[#]
ALTUNE OF CONANGA 6104[#]
Sire: USA14963730 SITZ UPWARD 307R[SV]
SITZ VALUE 7097[#]
SITZ HENRIETTA PRIDE 81M[#]
SITZ HENRIETTA PRIDE 1370[#]

BT RIGHT TIME 24J[#]
SINCLAIR GRASS MASTER[#]
N BAR PRIMROSE Y3051[#]
Dam: DKKJ541 HARDHAT GM ANNIE Y21 J541[PV]
BON VIEW NEW DESIGN 1407[#]
KANSAS ANNIE Y21[SV]
AMAROO EXPO ANNIE U024[#]

Selection Indexes	
DOM	GRN
$138	$204

Traits Oberserved: *BWT,600WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.3**	**-5.4**	**-5.6**	**+4.4**	**+57**	**+106**	**+133**	**+104**	**+26**	**+1.4**	**+10**
Acc	64%	58%	73%	73%	74%	72%	73%	71%	67%	72%	59%
Perc	79	97	36	58	20	12	20	44	4	75	91
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-2.8**	**+75**	**+5.4**	**-4.1**	**-5.8**	**+0.9**	**-0.7**	**-0.60**	**-**	**-**	**-**
Acc	51%	67%	67%	68%	68%	64%	70%	61%	-	-	-
Perc	90	25	60	99	99	23	99	1	-	-	-

Comments: T3 is a cow maker with a cow makers pedigree. One of the last Sitz Upward sons to sell in Aust. His dam Annie J541 is one of our originial Sinclair Grass Master x Kansas Annie Y21 daughters who produced so many great animals at Hardhat. T3 has been the standout weight gain bull of out Autumn T bulls.

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

Lot 13 HARDHAT Q44 TSZYU T5[SV] HBR

Ident: DKK22T5 **DOB:** 20/02/2022 **Mating Type:** ET

G A R MOMENTUM[PV]
LAWSONS MOMENTOUS M518[PV]
LAWSONS AFRICA H229[SV]
Sire: VLYQ44 LAWSONS MIRACULOUS Q44[PV]
G A R ANTICIPATION#
LAWSONS K914[SV]
LAWSONS TANK B1155 G625#

CONNEALY ONWARD#
SITZ UPWARD 307R[SV]
SITZ HENRIETTA PRIDE 81M#
Dam: NKLF143 KANSAS ANNIE F143[SV]
ARDROSSAN DIRECTION W109[PV]
KANSAS ANNIE C10[SV]
KANSAS ANNIE Y21[SV]

Selection Indexes	
DOM	GRN
$160	$240

Traits Oberserved: *BWT,600WT,SC,Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+7.7**	**+4.2**	**-6.7**	**+0.2**	**+33**	**+66**	**+78**	**+53**	**+19**	**+0.9**	**+29**
Acc	59%	48%	73%	73%	74%	72%	71%	69%	61%	71%	54%
Perc	11	37	21	2	98	97	98	98	37	88	15
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.1**	**+41**	**+14.3**	**+0.5**	**-0.2**	**+1.6**	**+0.9**	**+0.56**	**+1.02**	**+0.98**	**-**
Acc	40%	63%	62%	64%	64%	58%	66%	54%	47%	57%	-
Perc	66	98	2	36	48	4	82	89	82	52	-

Comments: T5 is our only bull by the EYE MUSCLE king Lawsons Miraculous Q44. T5 is again from a favorite donor cow Kansas Annie F143. Use T5 to add muscle and CARCASE YIELD to your herd.

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

Lot 14 HARDHAT QUANTUM T17[SV] HBR

Ident: DKK22T17 **DOB:** 20/03/2022 **Mating Type:** Natural

G A R MOMENTUM[PV]
LAWSONS MOMENTOUS M518[PV]
LAWSONS AFRICA H229[SV]
Sire: DKKQ39 HARDHAT M518 QUANTUM L230 Q39[SV]
H P C A INTENSITY#
KENNY'S CREEK L230#
KENNY'S CREEK H389#

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810#
Dam: DKKP155 HARDHAT P155#
S A V NET WORTH 4200#
HARDHAT NW SPICE GIRL Y97 M139#
KANSAS SPICE GIRL Y97[SV]

Selection Indexes	
DOM	GRN
$188	$318

Traits Oberserved: *BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+6.7**	**+4.1**	**-9.4**	**+2.6**	**+56**	**+101**	**+134**	**+89**	**+27**	**+2.6**	**+22**
Acc	55%	45%	68%	69%	69%	66%	66%	65%	58%	70%	45%
Perc	17	38	4	20	22	21	17	68	3	29	36
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.0**	**+80**	**+4.6**	**-0.1**	**-1.5**	**-0.3**	**+3.5**	**+0.34**	**-**	**-**	**-**
Acc	36%	57%	57%	58%	58%	52%	61%	50%	-	-	-
Perc	41	15	70	50	71	88	17	70	-	-	-

Comments: T17 is a deep sided, long bdied bull descending from the Kansas Spice Girl family. His Rennylea Kodak x SAV Net Worth dam is an outstanding female. His data replicates the balance of his phenotype, calving ease and curve bending!

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

Lot 15 HARDHAT MOMENTOUS T45[SV] HBR

Ident: DKK22T45 **DOB:** 15/07/2022 **Mating Type:** AI

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: VLYM518 LAWSONS MOMENTOUS M518[PV]
TE MANIA AFRICA A217[PV]
LAWSONS AFRICA H229[SV]
LAWSONS ROCKND AMBUSH E1103[PV]

BT RIGHT TIME 24J[#]
SINCLAIR GRASS MASTER[#]
N BAR PRIMROSE Y3051[#]
Dam: DKKM19 HARDHAT GM SPICE GIRL J527 M M19[#]
S A V PIONEER 7301[#]
HARDHAT 7301 SPICE GIRL Y97 J527[#]
KANSAS SPICE GIRL Y97[SV]

Selection Indexes	
DOM	GRN
$147	$287

Traits Oberserved: *GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.5**	**+0.9**	**-10.1**	**+1.2**	**+37**	**+70**	**+87**	**+56**	**+21**	**+1.6**	**+17**
Acc	63%	54%	83%	74%	74%	72%	72%	70%	65%	74%	57%
Perc	44	70	2	6	94	93	94	97	21	68	65
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-2.3**	**+34**	**+13.9**	**+0.2**	**-0.7**	**+0.5**	**+5.5**	**+0.83**	**+0.94**	**+0.94**	**+1.00**
Acc	45%	66%	64%	66%	66%	61%	68%	57%	66%	66%	61%
Perc	94	99	2	43	57	46	2	98	69	42	39

Comments: T45 is the highest marbling and muscle scanning bull Hardhat Angus has ever seen. TOP 2% for both IMF and EMA! At 12 months of age he scanned 8.2% IMF and 98cm EMA. His best feature however is his donor grade dam Hardhat Spice Girl M19 who one of the favorites in our herd. Carcase and Cow quality is what we strive for!

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

Lot 16 HARDHAT NEBRASKA T35[SV] HBR

Ident: DKK22T35 **DOB:** 06/07/2022 **Mating Type:** AI

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Sire: DKKN43 HARDHAT K522 NEBRASKA F143 N43[PV]
SITZ UPWARD 307R[SV]
KANSAS ANNIE F143[SV]
KANSAS ANNIE C10[SV]

ARDROSSAN DIRECTION W109[PV]
ARDROSSAN DIRECTION A50[SV]
ARDROSSAN WILCOOLA W2[#]
Dam: DKKJ43 HARDHAT A50 JEDDA C11 J43[#]
B T ULTRAVOX 297E[#]
HARDHAT UV JEDDA C11[#]
COMFORT HILL JEDDA X76[#]

Selection Indexes	
DOM	GRN
$134	$221

Traits Oberserved: *GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+10.1**	**+6.6**	**-15.1**	**+1.4**	**+47**	**+85**	**+117**	**+92**	**+26**	**+4.9**	**+8**
Acc	56%	46%	83%	74%	73%	71%	71%	68%	59%	73%	52%
Perc	3	14	1	7	64	67	49	64	4	1	94
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.8**	**+61**	**+1.9**	**-0.1**	**-1.1**	**-0.9**	**+2.1**	**+0.56**	**+1.06**	**+1.22**	**+1.02**
Acc	38%	64%	63%	64%	65%	58%	67%	56%	64%	64%	57%
Perc	21	64	92	50	64	98	49	89	87	93	45

Comments: T35 is a CALVING EASE bull with growth and type. By Hardhat Nebraska N43 who's dam F143 is the mother of lot 11 and 13.

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

Lot 17 HARDHAT NEBRASKA T42[SV] HBR

Ident: DKK22T42 **DOB:** 14/07/2022 **Mating Type:** AI

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Sire: DKKN43 HARDHAT K522 NEBRASKA F143 N43[PV]
SITZ UPWARD 307R[SV]
KANSAS ANNIE F143[SV]
KANSAS ANNIE C10[SV]

RITO 707 OF IDEAL 3407 7075[#]
S A V RENOWN 3439[PV]
S A V BLACKCAP MAY 4136[#]
Dam: DKKN59 HARDHAT N59[#]
B/R NEW FRONTIER 095[#]
HARDHAT NF HEATHER C17[#]
COMFORT HILL HEATHER W49[#]

Selection Indexes	
DOM	GRN
$152	$206

Traits Oberserved: *GL,BWT,400WT,SC, Scan(EMA,Rump),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+0.9**	**-1.0**	**-6.4**	**+6.9**	**+58**	**+98**	**+131**	**+121**	**+19**	**+4.2**	**+5**
Acc	56%	46%	82%	73%	72%	69%	69%	67%	59%	72%	53%
Perc	66	83	24	94	18	28	23	19	33	3	98
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-5.8**	**+71**	**+2.6**	**-2.7**	**-2.6**	**+0.9**	**-1.2**	**-0.11**	**+0.60**	**+0.84**	**+0.94**
Acc	36%	63%	62%	63%	63%	56%	66%	54%	64%	65%	57%
Perc	21	36	89	95	86	23	99	16	9	20	21

Comments: T42 is a HIGH GROWTH, HIGH FERTILITY son of Hardhat Nebraska N43.Use to add carcase weight and visible muscle to your cattle.

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

Lot 18 HARDHAT NEBRASKA T47[SV] HBR

Ident: DKK22T47 **DOB:** 15/07/2022 **Mating Type:** AI

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Sire: DKKN43 HARDHAT K522 NEBRASKA F143 N43[PV]
SITZ UPWARD 307R[SV]
KANSAS ANNIE F143[SV]
KANSAS ANNIE C10[SV]

SITZ UPWARD 307R[SV]
PLATTEMERE WEIGH UP K360[#]
BARBARA OF PLATTEMERE 337[#]
Dam: DKKP7 HARDHAT P7[#]
SINCLAIR GRASS MASTER[#]
HARDHAT GM ANNIE Y21 J506[PV]
KANSAS ANNIE Y21[SV]

Selection Indexes	
DOM	GRN
-	-

Traits Oberserved: *None*

Genetic Conditions:

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Acc	-	-	-	-	-	-	-	-	-	-	-
Perc	-	-	-	-	-	-	-	-	-	-	-
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Acc	-	-	-	-	-	-	-	-	-	-	-
Perc	-	-	-	-	-	-	-	-	-	-	-

Comments: T47 is another high growth Hardhat Nebraska N43 son. Please see updated EBV's on Supplementary Sheet.

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

Lot 19 HARDHAT STELLAR T73[SV] HBR

Ident: DKK22T73 **DOB:** 22/07/2022 **Mating Type:** AI

BENFIELD SUBSTANCE 8506#
MOHNEN SUBSTANTIAL 272#
MOHNEN GLYN MAWR ELBA 1758#
Sire: USA18397542 SITZ STELLAR 726D[PV]
CONNEALY FINAL PRODUCT[PV]
SITZ PRIDE 200B#
SITZ PRIDE 308Y#

G A R INGENUITY#
V A R INDEX 3282[PV]
SANDPOINT BLACKBIRD 8809#
Dam: DKKN103 HARDHAT 3282 FLEUR E2 N103#
K C F BENNETT PERFORMER#
HARDHAT BP ABIGAIL E2#
MILLAH MURRAH ABIGAIL W71#

Selection Indexes	
DOM	GRN
$185	$290

Traits Oberserved: *GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-2.6**	**+4.3**	**-3.4**	**+5.0**	**+56**	**+97**	**+124**	**+98**	**+18**	**-1.2**	**+25**
Acc	58%	43%	83%	74%	72%	70%	70%	67%	61%	73%	56%
Perc	85	36	72	71	24	30	34	54	42	99	28
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.0**	**+73**	**+11.5**	**+2.3**	**+1.6**	**+1.3**	**-0.2**	**-0.40**	**+0.76**	**+1.04**	**+1.04**
Acc	35%	61%	61%	62%	61%	56%	64%	48%	66%	66%	56%
Perc	69	28	7	9	18	9	97	3	32	66	52

Comments: T73 is a HIGH 400 day growth, POSITIVE FAT bull by SITZ STELLAR. We use Stellar to add muscle and foot quality.

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

Lot 20 HARDHAT MAIMURU T81[SV] APR

Ident: DKK22T81 **DOB:** 22/07/2022 **Mating Type:** AI

RENNYLEA C511[PV]
RENNYLEA H708[PV]
RENNYLEA E176[PV]
Sire: DKKM41 HARDHAT H708 MAIMURU J51 M41[SV]
ARDROSSAN DIRECTION A50[SV]
HARDHAT A50 MITTAGONG E10 J51#
HARDHAT U170 MITTAGONG E10[PV]

RENNYLEA KODAK K522[SV]
HARDHAT K522 NIKON F113 N87[PV]
KANSAS ANNIE F113[SV]
Dam: DKKQ94 HARDHAT N87 ANNIE N26 Q94#
S A V RENOWN 3439[PV]
HARDHAT REN ANNIE F181 N26#
KANSAS RITA F181[SV]

Selection Indexes	
DOM	GRN
$179	$293

Traits Oberserved: *GL,BWT,400WT,SC, Scan(EMA,Rib,Rump,IMF),DOC,Structure (Claw Set x 1, Foot Angle x 1),Genomics*
Genetic Conditions: *AMFU,CAFU,DDFU,NHFU*

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+0.7**	**+1.0**	**-3.2**	**+3.7**	**+62**	**+106**	**+135**	**+117**	**+10**	**+1.1**	**+22**
Acc	54%	42%	82%	73%	70%	68%	69%	66%	57%	70%	50%
Perc	67	69	74	41	7	13	17	23	93	84	40
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.5**	**+82**	**+3.4**	**+1.7**	**-0.7**	**-0.3**	**+2.8**	**-0.41**	**+0.90**	**+0.90**	**+1.04**
Acc	37%	62%	61%	63%	63%	55%	66%	55%	63%	63%	56%
Perc	55	12	82	15	57	88	31	3	62	32	52

Comments: T81 is a HIGH MARBLING, HIGH GROWTH son of Hardhat Maimuru M41. M41 is now +6.7 for IMF among the breeds elite proven marbling sires.

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

Lot 21 — HARDHAT S80[SV] — APR

Ident: DKK21S80 **DOB:** 27/07/2021 **Mating Type:** AI

RENNYLEA C511[PV]
RENNYLEA H708[PV]
RENNYLEA E176[PV]
Sire: DKKM41 HARDHAT H708 MAIMURU J51 M41[SV]
ARDROSSAN DIRECTION A50[SV]
HARDHAT A50 MITTAGONG E10 J51[#]
HARDHAT U170 MITTAGONG E10[PV]

BON VIEW NEW DESIGN 1407[#]
MURRAY 1407 Z366[SV]
MURRAY DIRECTION X323[#]
Dam: DKKK28 HARDHAT Z366 RADO B15 K28[#]
BALDRIDGE NEBRASKA 901[SV]
HARDHAT BN RADO B15[#]
MILLAH MURRAH RADO W2[#]

Selection Indexes	
DOM	GRN
$169	$304

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+7.6**	**+4.6**	**-2.4**	**+1.8**	**+44**	**+82**	**+110**	**+75**	**+16**	**+0.7**	**+20**
Acc	55%	45%	83%	73%	72%	70%	70%	68%	60%	65%	50%
Perc	12	32	84	11	78	73	64	86	61	92	48
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.2**	**+61**	**+5.5**	**+2.3**	**+1.5**	**-0.3**	**+4.8**	**+0.30**	**+1.00**	**+1.04**	**+1.10**
Acc	40%	64%	64%	65%	65%	58%	68%	57%	65%	65%	63%
Perc	64	66	59	9	19	88	4	66	79	66	71

Comments: S80 is an ELITE MARBLING sire in the top 4% of the breed. Use for CALVING EASE and to add genetic fat to your herd.

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

Lot 22 — HARDHAT S52[SV] — HBR

Ident: DKK21S52 **DOB:** 21/07/2021 **Mating Type:** AI

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R BIG EYE 1770[#]
Sire: USA18636059 G A R QUANTUM[PV]
CONNEALY IN SURE 8524[#]
G A R IN SURE 1524[#]
G A R COMPLETE 3011[#]

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Dam: DKKQ54 HARDHAT K522 BARUNAH E8 Q54[#]
ARDROSSAN DIRECTION A50[SV]
HARDHAT A50 BARUNAH Y10 E8[#]
WAITARA LD BARUNAH Y010 Y10[#]

Selection Indexes	
DOM	GRN
$157	$265

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+4.1**	**+3.1**	**-4.1**	**+2.8**	**+45**	**+89**	**+111**	**+97**	**+17**	**+2.4**	**+20**
Acc	56%	45%	81%	72%	72%	70%	70%	68%	62%	67%	38%
Perc	39	49	61	23	73	55	64	54	53	36	50
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.6**	**+65**	**+7.1**	**+2.3**	**+2.2**	**-0.2**	**+3.5**	**+0.68**	**+0.84**	**+1.24**	**+1.22**
Acc	38%	62%	62%	63%	62%	57%	65%	51%	69%	69%	60%
Perc	78	53	38	9	12	85	17	94	49	94	94

Comments: S52 has an extremely well balanced dataset. HIGH for FAT and MARBLING.

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

Lot 23 — HARDHAT S94# — HBR

Ident: DKK21S94 **DOB:** 08/08/2021 **Mating Type:** Natural

RENNYLEA EDMUND E11PV
RENNYLEA KODAK K522SV
RENNYLEA EISA ERICA F810#
Sire: DKKQ5 HARDHAT KODAK Q5SV
KANSAS EVIDENTLY J81SV
HARDHAT J81 ANNIE G158 M6#
KANSAS ANNIE G158SV

G A R INGENUITY#
V A R INDEX 3282PV
SANDPOINT BLACKBIRD 8809#
Dam: DKKN103 HARDHAT 3282 FLEUR E2 N103#
K C F BENNETT PERFORMER#
HARDHAT BP ABIGAIL E2#
MILLAH MURRAH ABIGAIL W71#

Selection Indexes	
DOM	GRN
$172	$261

Traits Oberserved: *BWT*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+3.8**	**+2.1**	**-3.3**	**+3.7**	**+47**	**+84**	**+107**	**+88**	**+17**	**+1.6**	**+12**
Acc	51%	41%	60%	70%	59%	56%	57%	56%	50%	53%	40%
Perc	41	59	73	41	62	69	72	69	46	68	85
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.9**	**+59**	**+9.2**	**+1.2**	**+0.4**	**+1.0**	**+1.1**	**-0.04**	**-**	**-**	**-**
Acc	32%	50%	50%	52%	52%	47%	53%	43%	-	-	-
Perc	43	72	18	22	36	18	77	23	-	-	-

Comments: S94 is a moderate framed bull loaded with red meat. Use to moderate frame and add muscle.

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

Lot 24 — HARDHAT S77SV — HBR

Ident: DKK21S77 **DOB:** 28/07/2021 **Mating Type:** AI

G A R PROGRESSSV
G A R MOMENTUMPV
G A R BIG EYE 1770#
Sire: USA18636059 G A R QUANTUMPV
CONNEALY IN SURE 8524#
G A R IN SURE 1524#
G A R COMPLETE 3011#

RENNYLEA EDMUND E11PV
RENNYLEA KODAK K522SV
RENNYLEA EISA ERICA F810#
Dam: DKKQ58 HARDHAT K522 CLEO D15 Q58#
RITO 2V1 OF 2536 1407#
HARDHAT 2V1 CLEO U165 D15SV
NOONEE CLEO U165#

Selection Indexes	
DOM	GRN
$171	$271

Traits Oberserved: *GL,BWT,Genomics*
Genetic Conditions:
AM13%,CAFU,DD25%,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.6**	**+0.3**	**+0.0**	**+5.9**	**+57**	**+99**	**+122**	**+118**	**+11**	**+3.1**	**+17**
Acc	57%	46%	82%	73%	73%	71%	71%	69%	63%	69%	39%
Perc	81	75	97	85	19	25	39	22	91	16	65
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.1**	**+69**	**+7.8**	**+0.3**	**-0.7**	**+0.5**	**+2.7**	**+0.34**	**+0.74**	**+0.92**	**+0.92**
Acc	39%	63%	63%	64%	64%	58%	67%	53%	68%	68%	59%
Perc	66	41	31	41	57	46	33	70	28	37	16

Comments: S77 is a soft, thick, high growth son of GAR Quantum. His carcase and structural data is very positive.

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

Lot 25 HARDHAT S53[SV] HBR

Ident: DKK21S136 **DOB:** 05/09/2021 **Mating Type:** Natural

G A R PROGRESS[SV]
G A R MOMENTUM[PV]
G A R Big Eye 1770[#]
Sire: G A R QUANTUMPV
CONNEALY IN SURE 8524[#]
G A R IN SURE 1524[#]
G A R COMPLETE 3011[#]

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Dam: HARDHAT K522 BARUNAH E8 Q57#
ARDROSSAN DIRECTION A50[SV]
HARDHAT A50 BARUNAH Y10 E8[#]
WAITARA LD BARUNAH Y010 Y10[#]

Selection Indexes	
DOM	GRN
$173	$282

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+2.0**	**+1.8**	**-6.0**	**+4.3**	**+49**	**+86**	**+100**	**+77**	**+14**	**+3.6**	**+20**
Acc	57%	46%	81%	72%	72%	70%	70%	68%	62%	67%	38%
Perc	57	62	30	55	52	64	82	84	74	8	50
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.3**	**+49**	**+12.5**	**+1.8**	**+1.5**	**+0.5**	**+2.3**	**+0.48**	**+0.98**	**+1.14**	**+0.98**
Acc	38%	62%	62%	62%	62%	56%	65%	51%	69%	69%	60%
Perc	91	4	14	19	46	43	84	76	84	32	45

Comments: S53 is an elite EYE MUSCLE bull with marbling and fertilty. GAR Quantum has bred very well at Hardhat.

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

Lot 26 HARDHAT S136[SV] HBR

Ident: DKK21S136 **DOB:** 05/09/2021 **Mating Type:** Natural

RENNYLEA EDMUND E11[PV]
RENNYLEA KODAK K522[SV]
RENNYLEA EISA ERICA F810[#]
Sire: DKKQ5 HARDHAT KODAK Q5[SV]
KANSAS EVIDENTLY J81[SV]
HARDHAT J81 ANNIE G158 M6[#]
KANSAS ANNIE G158[SV]

BT RIGHT TIME 24J[#]
SINCLAIR GRASS MASTER[#]
N BAR PRIMROSE Y3051[#]
Dam: DKKJ19 HARDHAT GM FLEUR Z3 J19[#]
B T ULTRAVOX 297E[#]
CLARK'S FLEUR Z3[#]
CLARK'S FLEUR W1[#]

Selection Indexes	
DOM	GRN
$106	$188

Traits Oberserved: *BWT,Genomics*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-1.0**	**-1.4**	**-3.4**	**+4.4**	**+50**	**+83**	**+110**	**+116**	**+16**	**+2.0**	**+11**
Acc	54%	44%	69%	69%	69%	67%	68%	65%	57%	62%	37%
Perc	77	85	72	58	49	70	65	25	55	52	89
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.3**	**+59**	**+1.1**	**+1.8**	**+1.0**	**-0.7**	**+1.7**	**-0.27**	**+0.80**	**+1.08**	**+1.02**
Acc	35%	58%	57%	59%	59%	53%	62%	49%	65%	64%	61%
Perc	61	72	96	14	26	96	61	7	40	75	45

Comments: S136 is a HIGH FEED EFFICIENCY bull in the top 7% of the breed. His Sinclair Grass Master dam is a time tested consistent producer like all the Sinclair Grass Master cows.

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

Lot 27 — HARDHAT S133# — HBR

Ident: DKK21S133 **DOB:** 01/10/2021 **Mating Type:** Natural

RENNYLEA EDMUND E11PV
RENNYLEA KODAK K522SV
RENNYLEA EISA ERICA F810#
Sire: DKKQ110 HARDHAT K522 KODAK M33 Q110SV
AYRVALE BARTEL E7PV
HARDHAT E7 ANNIE K44 M33#
HARDHAT XXP ANNIE Y21 K44#

G A R MOMENTUMPV
LAWSONS MOMENTOUS M518PV
LAWSONS AFRICA H229SV
Dam: DKKQ22 HARDHAT M518 ANNIE G158 Q22#
SITZ UPWARD 307RSV
KANSAS ANNIE G158SV
KANSAS ANNIE X164#

Selection Indexes	
DOM	GRN
$182	$292

Traits Oberserved: *BWT*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**+5.7**	**+6.8**	**-8.8**	**+2.6**	**+48**	**+89**	**+112**	**+92**	**+18**	**+2.5**	**+18**
Acc	52%	43%	65%	69%	63%	59%	59%	58%	51%	56%	50%
Perc	25	13	5	20	61	54	60	63	43	33	56
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-4.8**	**+54**	**+8.7**	**-0.6**	**-1.5**	**+0.5**	**+3.5**	**+0.36**	**-**	**-**	**-**
Acc	35%	53%	52%	54%	54%	49%	56%	46%	-	-	-
Perc	46	82	22	62	71	46	17	73	-	-	-

Comments: S133 is a smooth shouldered CALVING EASE son of Hardhat Kodak Q110. His balanced carcase data is balanced with HIGH MARBLING and EYE MUSCLE. Descending from our Kansas Annie G158 donor cow.

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

Lot 28 — HARDHAT S85# — HBR

Ident: DKK21S85 **DOB:** 29/07/2021 **Mating Type:** AI

G A R PROGRESSSV
G A R MOMENTUMPV
G A R BIG EYE 1770#
Sire: USA18636059 G A R QUANTUMPV
CONNEALY IN SURE 8524#
G A R IN SURE 1524#
G A R COMPLETE 3011#

RENNYLEA KODAK K522SV
HARDHAT K522 NIKON F113 N87PV
KANSAS ANNIE F113SV
Dam: DKKQ125 HARDHAT N87 ANNIE N7 Q125#
HARDHAT XXP KOMATSU X28 K40SV
HARDHAT K40 ANNIE J541 N7#
HARDHAT GM ANNIE Y21 J541PV

Selection Indexes	
DOM	GRN
$162	$262

Traits Oberserved: *GL,BWT*
Genetic Conditions:
AMFU,CAFU,DDFU,NHFU

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	**-5.6**	**-4.4**	**-0.6**	**+6.7**	**+62**	**+108**	**+137**	**+125**	**+18**	**+2.7**	**+15**
Acc	52%	40%	82%	72%	63%	61%	61%	59%	53%	59%	33%
Perc	93	95	96	93	7	10	14	15	45	26	72
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	**-3.1**	**+78**	**+10.8**	**-1.7**	**-2.6**	**+1.1**	**+1.5**	**+0.01**	**-**	**-**	**-**
Acc	33%	55%	54%	56%	55%	50%	57%	43%	-	-	-
Perc	87	17	9	84	86	14	67	28	-	-	-

Comments: S85 is an elite GROWTH bull ranking highly for all growth traits as well as carcase weight, eye muscle and yield.

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

Ident: DKK21S21 **DOB:** 07/09/2021 **Mating Type:** AI

BOOROOMOOKA UNDERTAKEN Y145PV
RENNYLEA EDMUND E11PV
LAWSONS HENRY VIII Y5SV
Sire: NORK522 RENNYLEA KODAK K522SV
TE MANIA BERKLEY B1PV
RENNYLEA EISA ERICA F810#
RENNYLEA EISA ERICA C299PV

S A V RENOWN 3439PV
HARDHAT RENOWN F143 N21PV
KANSAS ANNIE F143SV
Dam: DKKQ63 HARDHAT N21 HEATHER L40 Q63#
CHERYLTON STEWIE D19PV
HARDHAT D19 HEATHER E26 L40#
HARDHAT B219 HEATHER E26#

Selection Indexes	
DOM	GRN
-	-

Traits Oberserved: *None*
Genetic Conditions:
AMFU,CAFU,DDFU,NH6%

TACE	Mid August 2023 TransTasman Angus Cattle Evaluation										
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	Doc
EBV	-	-	-	-	-	-	-	-	-	-	-
Acc	-	-	-	-	-	-	-	-	-	-	-
Perc	-	-	-	-	-	-	-	-	-	-	-
TACE	DC	CWT	EMA	Rib	Rump	RBY	IMF	NFI-F	Claw	Angle	Leg
EBV	-	-	-	-	-	-	-	-	-	-	-
Acc	-	-	-	-	-	-	-	-	-	-	-
Perc	-	-	-	-	-	-	-	-	-	-	-

Comments: S21 is a moderate, correct Rennylea Kodak son from the SAV Renown grand daughter. Please see updated EBV's on supplementary sheet.

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

TransTasman Angus Cattle Evaluation - Mid August 2023 Reference Tables

TACE TransTasman Angus Cattle Evaluation

BREED AVERAGE EBVs

	Calving Ease		Birth		Growth					Fertility			Carcase				Other			Structure			Selection Indexes	
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg	$A	$A-L
Brd Avg	+2.2	+2.6	-4.8	+4.0	+50	+90	+117	+100	+17	+2.1	-4.7	+66	+6.3	+0.0	-0.3	+0.5	+2.2	+0.19	+20	+0.84	+0.97	+1.03	+197	+339

* Breed average represents the average EBV of all 2021 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2023 TransTasman Angus Cattle Evaluation .

PERCENTILE BANDS TABLE

% Band	Calving Ease		Birth		Growth					Fertility			Carcase				Other			Structure			Selection Indexes	
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	RIB	P8	RBY	IMF	NFI-F	DOC	Claw	Angle	Leg	$A	$A-L
	Less Calving Difficulty	Less Calving Difficulty	Shorter Gestation Length	Lighter Birth Weight	Heavier Live Weight	Heavier Live Weight	Heavier Live Weight	Heavier Mature Weight	Heavier Live Weight	Larger Scrotal Size	Shorter Time to Calving	Heavier Carcase Weight	Larger EMA	More Fat	More Fat	Higher Yield	More IMF	Greater Feed Efficiency	More Docile	Lower Score	Lower Score	Lower Score	Greater Profitability	Greater Profitability
1%	+10.9	+9.9	-10.7	-0.4	+70	+123	+162	+160	+28	+4.8	-8.0	+99	+14.6	+4.3	+5.1	+2.0	+5.9	-0.54	+43	+0.42	+0.60	+0.74	+273	+449
5%	+9.0	+8.2	-8.8	+1.0	+64	+112	+148	+141	+25	+3.9	-7.1	+88	+11.9	+2.9	+3.4	+1.5	+4.6	-0.32	+36	+0.54	+0.70	+0.84	+253	+419
10%	+7.9	+7.2	-7.9	+1.7	+60	+107	+140	+131	+23	+3.5	-6.5	+83	+10.6	+2.2	+2.5	+1.3	+4.0	-0.20	+32	+0.60	+0.76	+0.88	+241	+403
15%	+7.0	+6.5	-7.2	+2.2	+58	+104	+136	+124	+22	+3.2	-6.2	+79	+9.7	+1.7	+1.9	+1.1	+3.6	-0.13	+29	+0.66	+0.80	+0.90	+234	+392
20%	+6.3	+5.9	-6.8	+2.6	+57	+101	+132	+119	+21	+3.0	-5.9	+77	+9.0	+1.4	+1.5	+1.0	+3.3	-0.07	+27	+0.68	+0.84	+0.92	+228	+383
25%	+5.7	+5.3	-6.3	+2.9	+55	+99	+129	+115	+20	+2.8	-5.6	+75	+8.4	+1.1	+1.1	+0.9	+3.1	-0.02	+25	+0.72	+0.86	+0.94	+222	+376
30%	+5.1	+4.8	-6.0	+3.1	+54	+97	+126	+112	+19	+2.6	-5.4	+73	+7.9	+0.8	+0.8	+0.8	+2.9	+0.03	+24	+0.74	+0.88	+0.96	+218	+369
35%	+4.5	+4.4	-5.7	+3.4	+53	+95	+124	+109	+19	+2.5	-5.2	+71	+7.4	+0.6	+0.5	+0.7	+2.6	+0.07	+23	+0.76	+0.90	+0.98	+213	+363
40%	+4.0	+3.9	-5.4	+3.6	+52	+93	+121	+106	+18	+2.3	-5.1	+69	+7.0	+0.4	+0.2	+0.6	+2.5	+0.10	+21	+0.80	+0.92	+1.00	+209	+357
45%	+3.4	+3.4	-5.1	+3.8	+51	+92	+119	+103	+18	+2.2	-4.9	+68	+6.6	+0.2	+0.0	+0.6	+2.3	+0.14	+20	+0.82	+0.94	+1.02	+204	+350
50%	+2.8	+3.0	-4.7	+4.0	+50	+90	+117	+100	+17	+2.1	-4.7	+66	+6.2	-0.1	-0.3	+0.5	+2.1	+0.18	+19	+0.84	+0.96	+1.02	+200	+344
55%	+2.2	+2.5	-4.5	+4.3	+49	+88	+115	+97	+16	+2.0	-4.5	+64	+5.8	-0.3	-0.6	+0.4	+1.9	+0.22	+19	+0.86	+0.98	+1.04	+195	+338
60%	+1.6	+2.0	-4.2	+4.5	+48	+87	+112	+94	+16	+1.8	-4.4	+63	+5.4	-0.5	-0.9	+0.3	+1.8	+0.25	+18	+0.88	+1.00	+1.06	+191	+331
65%	+1.0	+1.5	-3.8	+4.7	+47	+85	+110	+91	+15	+1.7	-4.2	+61	+5.0	-0.7	-1.1	+0.3	+1.6	+0.29	+17	+0.90	+1.02	+1.08	+186	+324
70%	+0.2	+0.9	-3.5	+4.9	+46	+83	+107	+88	+15	+1.6	-4.0	+59	+4.6	-0.9	-1.4	+0.2	+1.4	+0.34	+16	+0.94	+1.04	+1.08	+181	+316
75%	-0.6	+0.3	-3.2	+5.2	+44	+81	+105	+84	+14	+1.4	-3.8	+57	+4.2	-1.2	-1.7	+0.1	+1.2	+0.38	+15	+0.96	+1.08	+1.10	+175	+308
80%	-1.5	-0.4	-2.8	+5.5	+43	+79	+101	+80	+13	+1.3	-3.5	+55	+3.7	-1.4	-2.1	+0.0	+1.0	+0.44	+14	+1.00	+1.10	+1.12	+167	+297
85%	-2.7	-1.4	-2.3	+5.9	+41	+76	+98	+75	+12	+1.1	-3.2	+53	+3.1	-1.8	-2.5	-0.2	+0.8	+0.50	+12	+1.04	+1.14	+1.16	+159	+285
90%	-4.3	-2.5	-1.6	+6.3	+39	+73	+93	+69	+11	+0.8	-2.8	+49	+2.3	-2.2	-3.1	-0.3	+0.5	+0.58	+10	+1.08	+1.18	+1.18	+147	+267
95%	-6.9	-4.4	-0.7	+7.0	+36	+68	+85	+60	+9	+0.4	-2.1	+44	+1.2	-2.8	-3.9	-0.6	+0.0	+0.71	+7	+1.16	+1.26	+1.24	+129	+239
99%	-12.6	-8.5	+1.4	+8.5	+28	+56	+70	+40	+6	-0.4	-0.3	+34	-1.2	-4.2	-5.7	-1.1	-0.8	+0.96	+0	+1.30	+1.40	+1.32	+95	+186
	More Calving Difficulty	More Calving Difficulty	Longer Gestation Length	Heavier Birth Weight	Lighter Live Weight	Lighter Live Weight	Lighter Live Weight	Lighter Mature Weight	Lighter Live Weight	Smaller Scrotal Size	Longer Time to Calving	Lighter Carcase Weight	Smaller EMA	Less Fat	Less Fat	Lower Yield	Less IMF	Lower Feed Efficiency	Less Docile	Higher Score	Higher Score	Higher Score	Lower Profitability	Lower Profitability

* The percentile bands represent the distribution of EBVs across the 2021 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2023 TransTasman Angus Cattle Evaluation .

TransTasman Angus Cattle Evaluation - Mid August 2023 Reference Tables

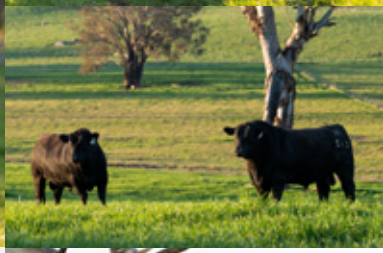
TACE
TransTasman Angus Cattle Evaluation

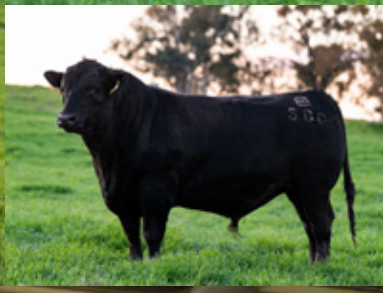
BREED AVERAGE EBVs										
	$A	$D	$GN	$GS	$A-L	$D-L	$GN-L	$GS-L	$PRO	$T
Brd Avg	+197	+163	+259	+181	+339	+293	+405	+380	+145	+181

* Breed average represents the average EBV of all 2021 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2023 TransTasman Angus Cattle Evaluation .

PERCENTILE BANDS TABLE										
% Band	$A	$D	$GN	$GS	$A-L	$D-L	$GN-L	$GS-L	$PRO	$T
	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability	Greater Profitability
1%	+273	+230	+363	+261	+449	+391	+539	+512	+228	+235
5%	+253	+211	+335	+239	+419	+364	+503	+475	+205	+221
10%	+241	+201	+319	+227	+403	+350	+484	+455	+193	+213
15%	+234	+194	+309	+219	+392	+340	+470	+443	+185	+207
20%	+228	+189	+300	+212	+383	+332	+459	+432	+178	+203
25%	+222	+184	+293	+207	+376	+325	+450	+423	+172	+199
30%	+218	+180	+286	+202	+369	+319	+442	+415	+167	+195
35%	+213	+176	+280	+197	+363	+314	+434	+407	+162	+192
40%	+209	+173	+274	+192	+357	+308	+426	+400	+157	+189
45%	+204	+169	+268	+188	+350	+303	+418	+393	+153	+186
50%	+200	+165	+262	+183	+344	+297	+411	+386	+148	+183
55%	+195	+161	+256	+179	+338	+292	+403	+378	+143	+180
60%	+191	+157	+250	+174	+331	+286	+395	+371	+138	+176
65%	+186	+153	+244	+169	+324	+280	+386	+362	+133	+173
70%	+181	+149	+236	+164	+316	+273	+377	+353	+127	+169
75%	+175	+144	+228	+158	+308	+265	+366	+343	+121	+165
80%	+167	+138	+219	+151	+297	+256	+353	+332	+114	+160
85%	+159	+130	+208	+142	+285	+245	+337	+317	+105	+154
90%	+147	+121	+193	+131	+267	+230	+316	+297	+92	+145
95%	+129	+106	+171	+113	+239	+206	+283	+264	+73	+133
99%	+95	+77	+129	+81	+186	+160	+223	+200	+38	+110
	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability	Lower Profitability

* The percentile bands represent the distribution of EBVs across the 2021 drop Australian Angus and Angus-influenced seedstock animals analysed in the Mid August 2023 TransTasman Angus Cattle Evaluation .





The top price bull from
the 2022 Sale Lot 3
sold for $24,000

Lot 10
DKK21S49

Lot 11
DKK22T2

Lot 12
DKK22T3

Lot 15
DKK22T45

Lot 21
DKK21S80

Note: This calf is Hardhat T45 who is lot 15 of this years sale.

HARDHAT ANGUS

"WHERE *Cows* THAT LAST
BREED *Bulls* THAT LAST"