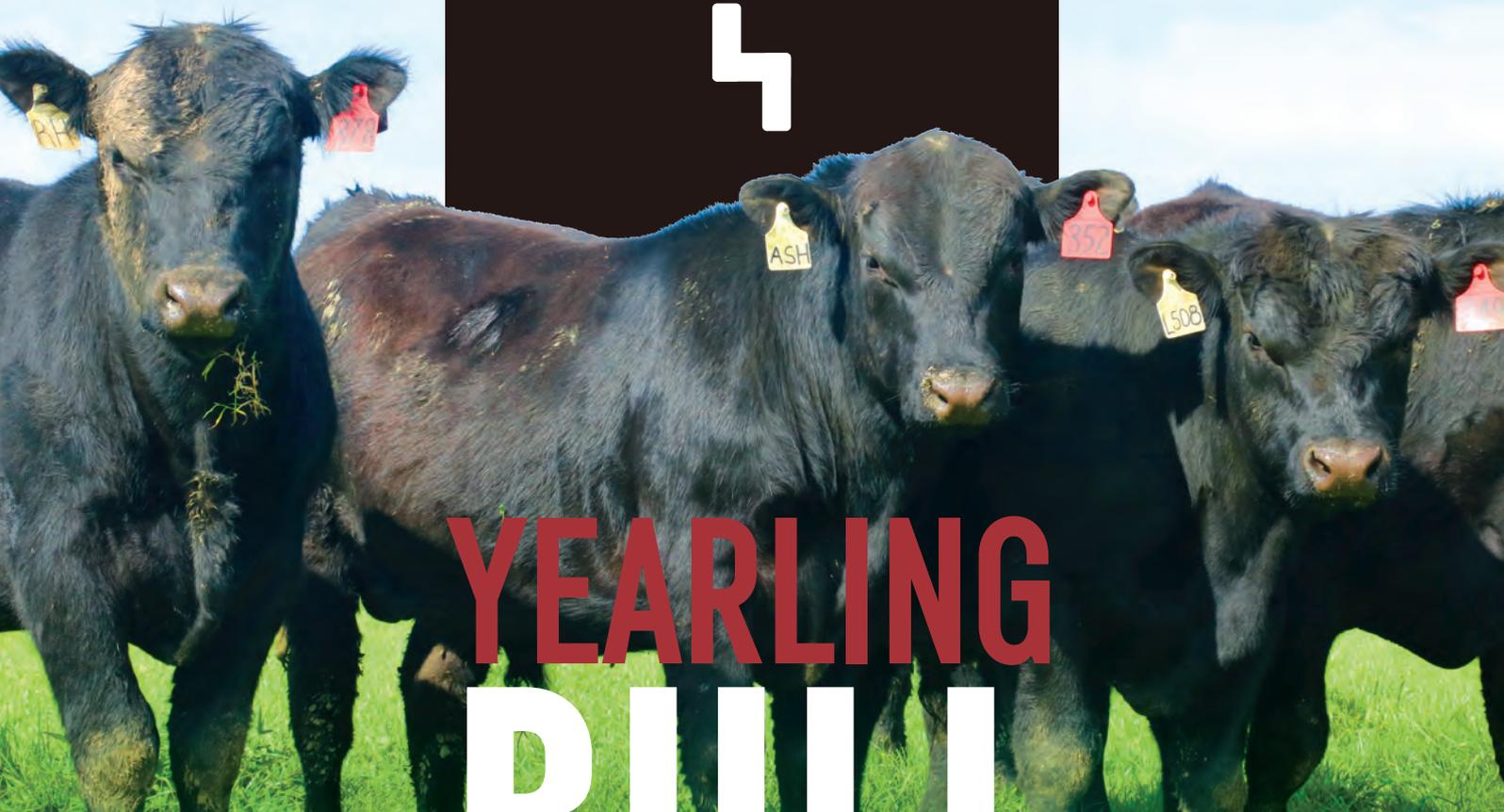


LANE BROTHERS

WHANGARA ANGUS



YEARLING
BULL
SALE

TUESDAY 22ND SEPTEMBER 2020
2.00^{PM} ON THE PROPERTY

BRED FOR BETTER BEEF



WHEN VISIONS ALIGN.

Every decision made at Whangara Angus comes back to breeding for better beef, so why wouldn't we take the opportunity to partner with AngusPure?



ANGUSPURE PARTNER

AngusPure has teamed up with those who share in our vision - to focus on the end consumer. We want to create an 'AngusPure Moment'. A moment in time when anyone, anywhere in the world, is able to share in a moment of synergy. A moment created by the finest grass-fed beef eating experience.

We have partnered with 63 of New Zealand's finest Angus studs and this stud is one of them. They are developing the best genetics and implementing the best management practices.



A ANGUSPURE ENDORSED BULLS

This index gives commercial farmers confidence that by using this selection tool, bulls are most likely to leave progeny with superior carcass quality and at the same time achieve desirable outcomes for self-replacing herds, as the AngusPure index still rewards cattle with strong maternal attributes like calving ease, scrotal and growth, along with carcass weight. To qualify for the 'A' endorsement, bulls must meet a minimum AngusPure index of +\$139.

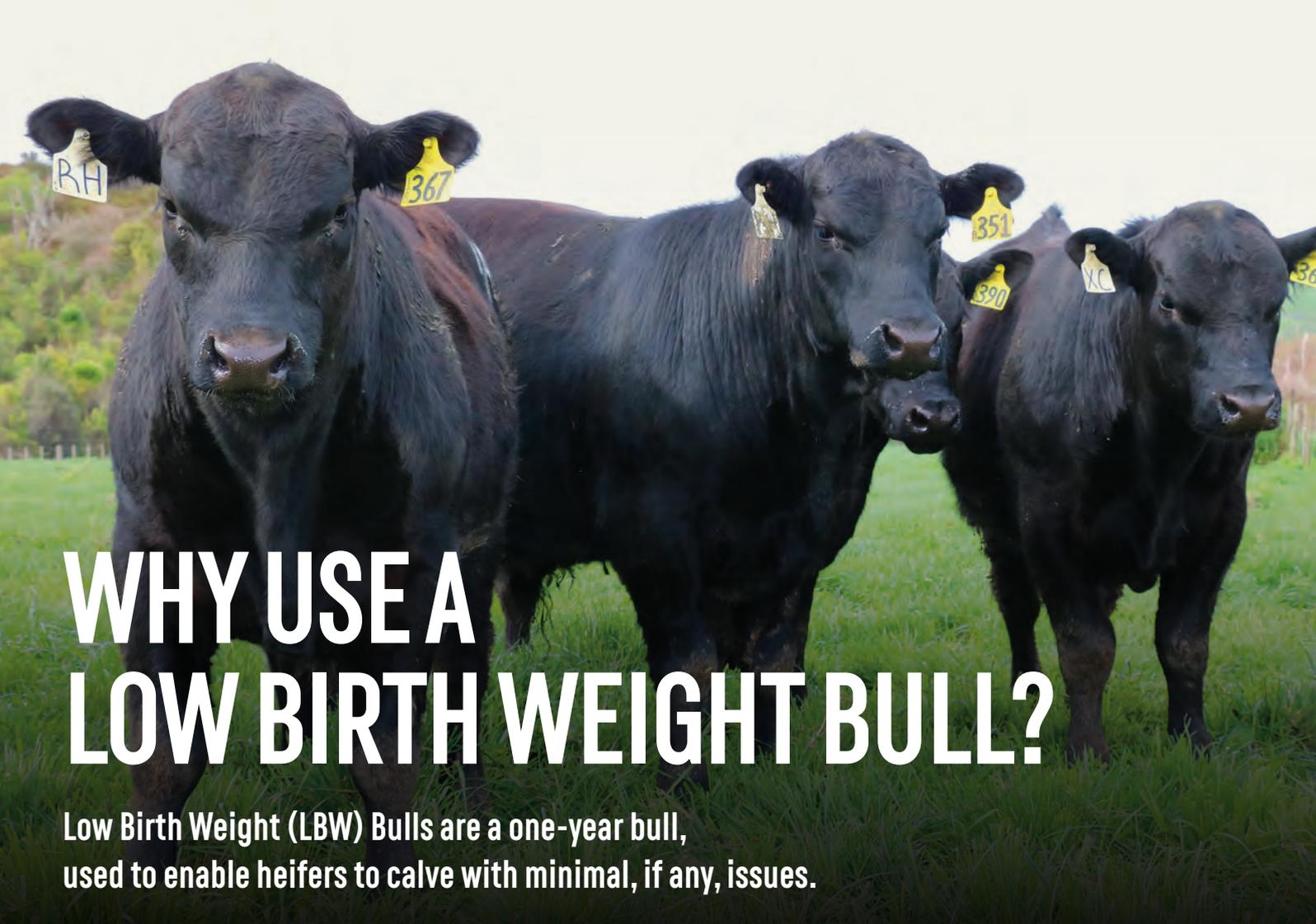
These bulls will be => +\$139 for AngusPure index.

A+ EXTRA ANGUSPURE ENDORSEMENT FOR MARBLING

In addition to the 'A', and to assist bull buyers who wish to select for more marbling we are rewarding those animals that are in the top 25% of the breed for AngusPure index and who also have their marbling EBV (IMF) in the top 50% as well. These bulls will be awarded an 'A+' endorsement. Marbling is one of the very highest eating quality attributes and is necessary in order to meet some of the highest premium requirements for our new program, AngusPure Special Reserve. To qualify for the 'A+' endorsement, bulls must meet a minimum AngusPure index of +\$152. They must also meet the minimum marbling requirement of +1.7 for IMF.

These bulls will be => +\$152 for AngusPure index and => + 1.7 for IMF EBV.

AngusPure recognises the need to lift the amount of marbling in our New Zealand cow genetics, in order to fill the requirements of consumers going forward. Marbling has two critical components; genetics and feeding. Feeding on a rising plane of nutrition is vital but without the genetics these attributes will not be able to express themselves.



WHY USE A LOW BIRTH WEIGHT BULL?

Low Birth Weight (LBW) Bulls are a one-year bull, used to enable heifers to calve with minimal, if any, issues.

HEIFER MATING WITH LBW BULLS

We recommend that commercial farmers interested in heifer mating use LBW bulls. These bulls have an EBV Trait score of less than +3.5 and are between 12 and 15 months old – an appropriate size to be mated to heifers. They also have double positive calving ease EBV trait scores.

R2 BULL PRICES EXCEEDING YOUR BUDGET?

Included in this sale we have Bulls that with the right opportunity to grow will be perfect for your mating programme for years to come. These Bulls have Birth weights above +3.5 therefore we do not recommend them for heifer mating.

HEIFER MATING THE WHANGARA ANGUS WAY

Whangara Angus have been yearling heifer mating for 20+ years.

SELECTION

At first BVD – 8 Weeks prior to mating – heifers are selected for mating based on weight and condition. Over 300kg for stud heifers, although sometimes as low as 280kg dependent on size and condition. In our commercial heifer mob, anything over 280kg is good to go.

FEED

Heifers are set stocked on the flats in early winter. Our heifers are priority-fed and weighed once a month.

MATING

The heaviest cut of heifers (those above 320kg) become a part of the Whangara synchronised Artificial Insemination programme. All heifers that don't make this selection go to the bull.

THINGS WE'VE LEARNED DOING IT

- A heifer's condition has a much more positive effect on in-calf rates than weight does
- Yard weaning helps quieten the heifers; temperament is key to success
- Heifers need to be on priority feeding prior to mating
- Our focus on growth traits has seen our females mature earlier and our in calf rates rise
- Success in heifer mating is very seasonally dependent



CONDITIONS FOR BULL AUCTIONS CONDUCTED LIVE AT A SALEYARD/ON FARM

All intending purchasers must register at the PGG Wrightson Ltd Livestock (PGW) sales office prior to the sale. The New Zealand Stock & Station Agent's Association Conditions of Sale apply. Terms can be inspected at the registration desk and on the wall in the auction room.

PGW's Monthly Account Terms of Trade also apply to the extent deemed relevant by PGW. The current versions of PGW's Monthly Account Terms of Trade are also available online at: www.pggwrightson.co.nz/Our-Company/Terms-and-Conditions or in hardcopy on request.

On behalf of the vendor, PGW will pay a purchasing rebate of 5% of the purchase price excluding GST, plus GST, to livestock companies and recognised independent livestock agents with a PGW Monthly Account who have introduced buyers to PGW before the sale and/or accompanied buyers to the sale.

HEALTH AND SAFETY

Under the Health and Safety Regulations we are required to advise people of the potential hazards of a working farm environment.

1. Cattle movements
2. Vehicles and machinery
3. Cattle yards, slippery surface, uneven surface, rails
4. Tiered seating pavilion
5. Electrical appliances
6. All children are the sole responsibility of their parents/caregivers

HEALTH STATUS

BVD: Our Bulls are BVD tested to assure they are BVD virus antigen negative at the time of sale. All sale Bulls have been vaccinated prior to sale and will be protected for 1 year. The purchaser should be aware that the bull will need a booster vaccination prior to going out with the cows and a booster every year to keep him clear.

All Bulls are TB and Brucellosis Free.
Whangara Angus is an accredited C10 herd.

FERTILITY

The entry into this catalogue constitutes a guarantee of fertility. Bulls have had a fertility evaluation carried out by Guy Haynes from Totally Vets and all bulls have passed the parameters required. Breeding Stock fertility is warranted for a 12 month period following purchase. Please see Clause 5 1-3 of our Terms and Conditions for full details. Terms and Conditions are available on our website.

GENETIC CONDITIONS STATUS

All Bulls in this catalogue are identified as either FU- free untested or F- free tested of all Genetic Conditions.

DELIVERY

Delivery will be arranged by Whangara Angus with their preferred carriers within a week following the Sale.

INSPECTION

Inspection of the Sale Cattle is invited. Please contact Sales Manager, Robbie Kirkpatrick to arrange viewing: 021 272 2809.

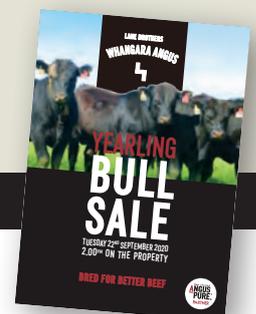
INSURANCE

Angus NZ recommends all purchasers insure their Bulls on day of sale with FMG.

CATALOGUE PDF

Download a copy of this year's Bull Sale Catalogue to your tablet or phone by visiting our website: www.whangaraangus.co.nz

PLEASE BRING THIS COPY OF THE CATALOGUE WITH YOU ON SALE DAY >





ANGUS

 **NEW ZEALAND**

Index Suspension

After the Angus NZ AGM held on Friday 7th August 2020 all members present, except one, indicated a preference to suspend the AP and SRI index's until a full review has been completed.

The Angus NZ Board has activated this suspension process as of today 10/8/2020 and will work as quickly as possible to ensure the new version is introduced.

If you have any questions regarding this suspension please contact your local Angus NZ Director.

With kind regards,

Jane Allan
Angus NZ Breed Manager

We deeply apologise for the inconvenience of this suspension at this critical time of the year. Please note that we have added last month's Self Replacing Index and AngusPure Index as a guide if you are looking at these indexes. EBV,s and Indexes are updated every month, and we will have the updated indexes at the Bull sale, depending on Angus NZ.

04

BRED FOR BETTER BEEF

LANE BROTHERS
WHANGARA ANGUS



LOT 01

WHANGARA 19352

DOB: 03/07/2019

ANIMAL INDENT:
13649019352

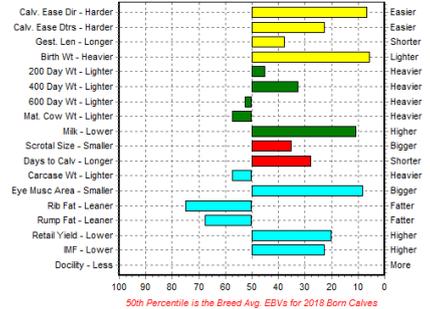
SIRE: G A RASHLAND

G A R EARLY BIRD

SCROTAL
40cm

CHAIR ROCK AMBUSH 1018

EBV Percentiles for WHANGARA 19352 (PV)



DAM: WHANGARA 17055

PATHFINDER GENESIS G357

WHANGARA 12097



GROUP BREEDPLAN EBVS										
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+9.2	+5.2	-5.0	+1.6	+47	+89	+108	+91	+21	+2.2	-5.6
54%	44%	84%	73%	68%	68%	66%	64%	57%	71%	34%
CARCASS EBVS										
CWT	EMA	RIB	RUMP	RBV	IMF	DOCILITY	INDEXES VALUES (\$)		SR	
+59	+8.6	-0.8	-0.8	+1.1	+2.5				+\$175	
61%	58%	61%	59%	58%	56%				+\$196	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 02

WHANGARA 19393

DOB: 19/07/2019

ANIMAL INDENT:
13649019393

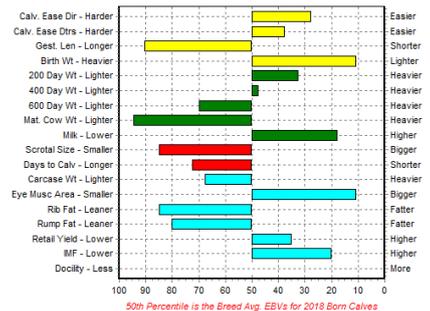
SIRE: G A RASHLAND

G A R EARLY BIRD

SCROTAL
36cm

CHAIR ROCK AMBUSH 1018

EBV Percentiles for WHANGARA 19393 (PV)



DAM: WHANGARA 13109

MF 1278

WHANGARA 10018



GROUP BREEDPLAN EBVS										
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+5.3	+3.5	-1.4	+2.4	+49	+84	+100	+63	+20	+1.0	-3.2
52%	41%	84%	73%	68%	69%	66%	63%	57%	71%	31%
CARCASS EBVS										
CWT	EMA	RIB	RUMP	RBV	IMF	DOCILITY	INDEXES VALUES (\$)		SR	
+56	+8.1	-1.2	-1.3	+0.8	+2.6				+\$157	
59%	58%	59%	59%	56%	54%				+\$177	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 03

WHANGARA 19415

DOB: 07/08/2019

ANIMAL INDENT:
13649019415

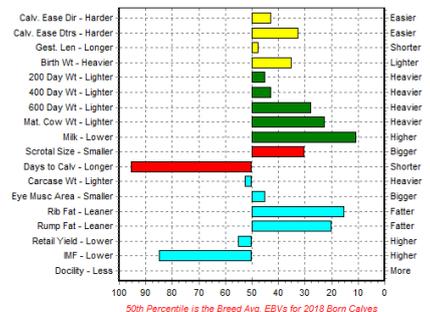
SIRE: WHANGARA 17313

WHANGARA 15330

SCROTAL
37cm

WHANGARA 15128

EBV Percentiles for WHANGARA 19415 (SV)



DAM: WHANGARA 11059

KAKAHU 08216

WHANGARA 0689



GROUP BREEDPLAN EBVS										
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+3.2	+4.3	-4.3	+3.6	+47	+85	+119	+109	+21	+2.3	-0.3
47%	39%	53%	69%	63%	64%	62%	59%	51%	68%	27%
CARCASS EBVS										
CWT	EMA	RIB	RUMP	RBV	IMF	DOCILITY	INDEXES VALUES (\$)		SR	
+61	+5.5	+1.3	+0.9	+0.3	+0.7				+\$106	
52%	52%	54%	54%	50%	47%				+\$130	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES																INDEXES (\$)		
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBV	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



LANE BROTHERS
WHANGARA ANGUS

YEARLING BULL SALE
TUESDAY 22ND SEPTEMBER 2020

05

LOT 04

WHANGARA 19356

DOB: 04/07/2019

ANIMAL INDENT:
13649019356

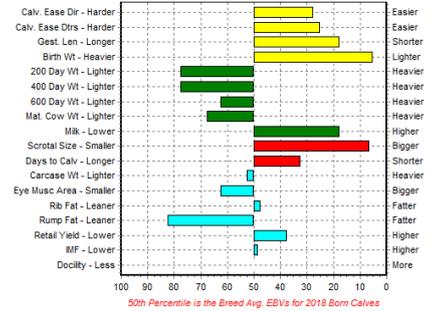
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
38cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19356 (PV)



DAM: WHANGARA 17092

WHANGARA 15330

WHANGARA 15087

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+5.0	+5.0	-6.5	+1.5	+40	+75	+103	+85	+20	+3.2	-5.4
55%	46%	84%	73%	67%	68%	67%	65%	55%	71%	39%

CARCASS EBVS							DOCKILITY	INDEXES VALUES (\$)	SR	AP
CWT	EMA	RIB	RUMP	RBY	IMF					
+61	+4.5	+0.1	-1.5	+0.7	+1.7					
59%	57%	61%	59%	57%	56%					

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 05

WHANGARA 19378

DOB: 13/07/2019

ANIMAL INDENT:
13649019378

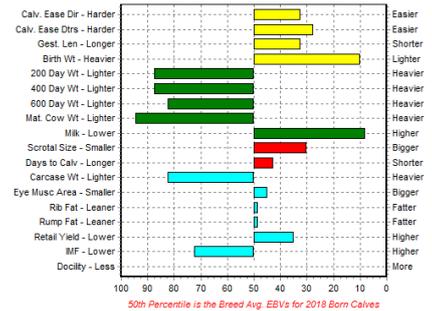
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
37cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19378 (SV)



DAM: WHANGARA 09121

WHANGARA YIELD GRADE 309

WHANGARA 9960

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.7	+4.6	-5.3	+2.2	+36	+69	+92	+62	+22	+2.3	-4.8
56%	47%	84%	74%	69%	69%	68%	65%	59%	72%	40%

CARCASS EBVS							DOCKILITY	INDEXES VALUES (\$)	SR	AP
CWT	EMA	RIB	RUMP	RBY	IMF					
+50	+5.5	0.0	-0.2	+0.8	+1.1					
60%	58%	61%	59%	58%	56%					

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 06

WHANGARA 19355

DOB: 04/07/2019

ANIMAL INDENT:
13649019355

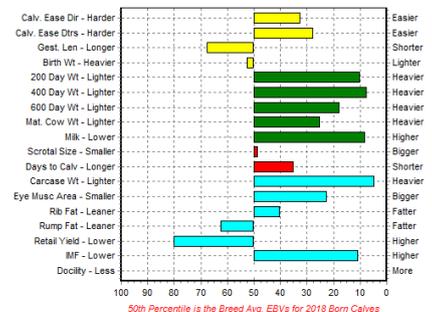
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
36cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19355 (PV)



DAM: WHANGARA 17128

PATHFINDER GENESIS G357

WHANGARA 12077

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.3	+4.6	-3.3	+4.4	+55	+100	+124	+108	+22	+1.8	-5.2
58%	42%	83%	73%	69%	68%	65%	63%	55%	71%	31%

CARCASS EBVS							DOCKILITY	INDEXES VALUES (\$)	SR	AP
CWT	EMA	RIB	RUMP	RBY	IMF					
+80	+6.9	+0.3	-0.6	-0.3	+3.0					
59%	57%	59%	57%	56%	54%					

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



LOT 07

WHANGARA 19339

DOB: 28/06/2019

ANIMAL INDENT:
13649019339

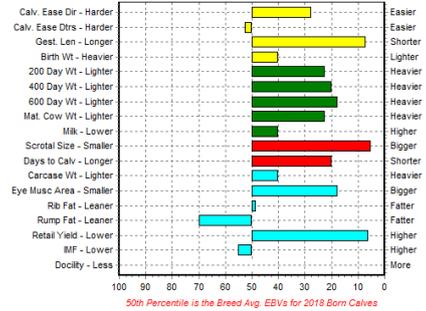
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
38cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19339 (PV)



DAM: WHANGARA 17012

V A R GENERATION 2100

WHANGARA 15061



GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+5.5	+1.8	-7.6	+3.9	+51	+93	+124	+110	+17	+3.3	-6.2
57%	50%	84%	73%	68%	69%	68%	65%	57%	72%	40%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+64	+7.6	0.0	-0.9	+1.8	+1.6	
60%	58%	62%	60%	58%	57%	

INDEXES VALUES (\$)	SR
	+\$161
INDEXES VALUES (\$)	AP
	+\$194

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 08

WHANGARA 19347

DOB: 02/07/2019

ANIMAL INDENT:
13649019347

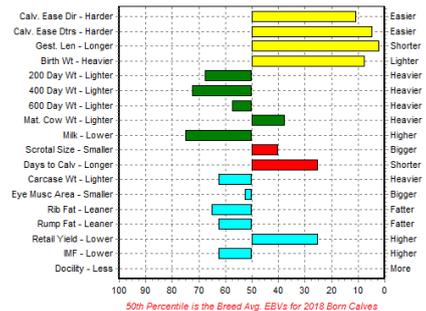
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
40cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19347 (PV)



DAM: WHANGARA 17023

WHANGARA 15330

WHANGARA 15042



GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+8.3	+8.7	-9.2	+1.9	+43	+76	+105	+100	+13	+2.0	-5.9
55%	47%	84%	73%	67%	68%	68%	65%	55%	71%	39%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+58	+5.1	-0.4	-0.6	+1.0	+1.4	
59%	57%	61%	59%	58%	56%	

INDEXES VALUES (\$)	SR
	+\$149
INDEXES VALUES (\$)	AP
	+\$188

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 09

WHANGARA 19362

DOB: 06/07/2019

ANIMAL INDENT:
13649019362

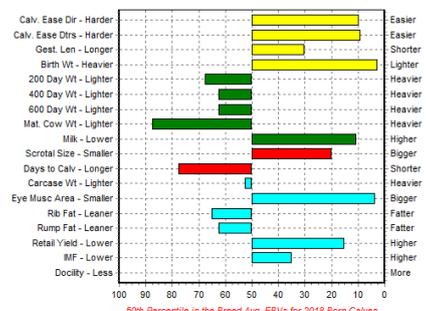
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
40cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19362 (PV)



DAM: WHANGARA 17011

EF COMPLEMENT 8088

WHANGARA 15097



GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+8.5	+7.5	-5.4	+1.0	+43	+80	+103	+74	+21	+2.5	-2.9
58%	44%	85%	74%	69%	68%	66%	64%	56%	71%	31%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+61	+9.9	-0.4	-0.6	+1.3	+2.1	
59%	57%	59%	57%	55%	54%	

INDEXES VALUES (\$)	SR
	+\$168
INDEXES VALUES (\$)	AP
	+\$193

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



LANE BROTHERS
WHANGARA ANGUS

YEARLING BULL SALE
TUESDAY 22ND SEPTEMBER 2020

07

LOT 10

WHANGARA 19369

DOB: 08/07/2019

ANIMAL INDENT:
13649019369

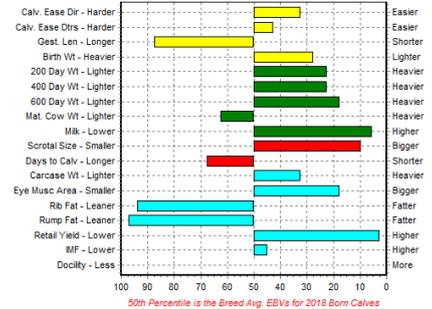
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
37cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19369 (PV)



DAM: WHANGARA 17086

V A R GENERATION 2100

WHANGARA 051

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.2	+3.3	-1.7	+3.3	+51	+92	+123	+88	+23	+3.0	-3.4
57%	51%	84%	73%	68%	69%	69%	66%	58%	72%	42%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+66	+7.6	-1.9	-2.9	+2.2	+1.8	
61%	59%	63%	61%	59%	58%	

INDEXES VALUES (\$)
SR +\$153
AP +\$189

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 11

WHANGARA 19343

DOB: 25/06/2019

ANIMAL INDENT:
13649019343

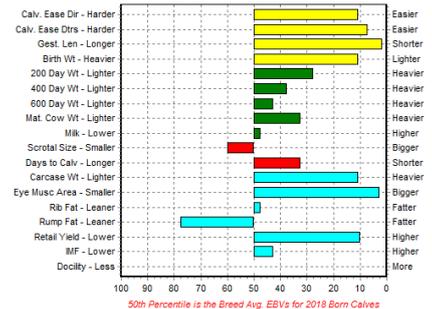
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
37cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19343 (PV)



DAM: WHANGARA 17004

CONNEALY COMRADE 1385

WHANGARA 15010

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+7.4	+8.0	-9.8	+2.5	+50	+87	+113	+103	+16	+1.6	-5.3
56%	50%	84%	73%	68%	69%	68%	65%	57%	72%	40%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+74	+10.1	+0.1	-1.2	+1.5	+1.9	
60%	58%	62%	60%	59%	57%	

INDEXES VALUES (\$)
SR +\$172
AP +\$205

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 12

WHANGARA 19406

DOB: 27/07/2019

ANIMAL INDENT:
13649019406

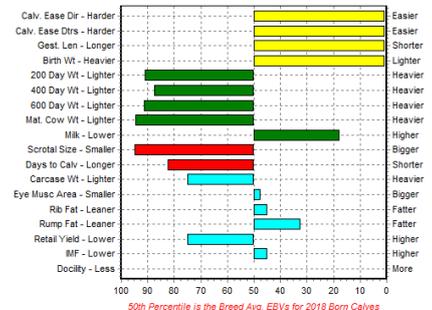
SIRE: WHANGARA 17328

EF COMPLEMENT 8088

SCROTAL
32cm

WHANGARA 13010

EBV Percentiles for WHANGARA 19406 (PV)



DAM: WHANGARA 17058

WHANGARA 15330

WHANGARA 15081

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+12.8	+11.7	-11.0	-1.1	+35	+68	+84	+62	+20	+0.5	-2.5
52%	46%	61%	70%	63%	64%	63%	62%	53%	70%	34%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+53	+5.4	+0.2	+0.4	-0.2	+1.8	
55%	54%	57%	56%	53%	51%	

INDEXES VALUES (\$)
SR +\$148
AP +\$166

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



LOT 13

WHANGARA 19379

DOB: 15/07/2019

ANIMAL INDENT:
13649019379

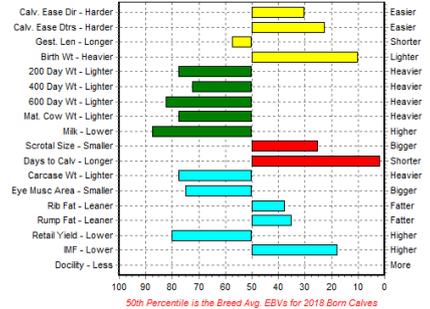
SIRE: REILAND HILARY H874(AI)

TE MANIA BERKLEY B1(AI)

SCROTAL
39cm

STRATHEWEN 338 JADE E01(AI)

EBV Percentiles for WHANGARA 19379 (SV)



DAM: WHANGARA 12075

TOTARANUI 538

WHANGARA 0452

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.9	+5.3	-3.8	+2.2	+40	+76	+92	+81	+11	+2.4	-8.9
55%	47%	84%	74%	69%	69%	68%	64%	57%	72%	39%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+51	+3.7	+0.4	+0.3	-0.3	+2.7	
59%	58%	61%	60%	58%	56%	

INDEXES VALUES (\$)	SR
	+\$136
INDEXES VALUES (\$)	AP
	+\$146

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 14

WHANGARA 19351

DOB: 03/07/2019

ANIMAL INDENT:
13649019351

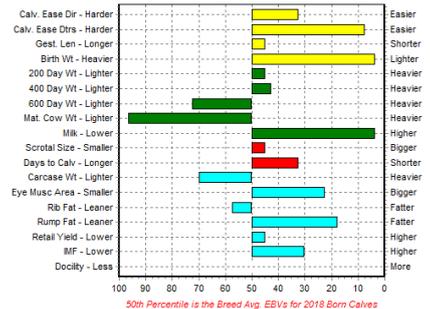
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
39cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19351 (PV)



DAM: WHANGARA 17007

EF COMPLEMENT 8088

WHANGARA 15053

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.5	+7.9	-4.5	+1.2	+47	+86	+98	+57	+24	+1.9	-5.4
58%	45%	85%	73%	69%	68%	66%	64%	57%	71%	32%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+55	+6.9	-0.2	+1.0	+0.5	+2.2	
60%	57%	60%	57%	56%	55%	

INDEXES VALUES (\$)	SR
	+\$169
INDEXES VALUES (\$)	AP
	+\$186

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 15

WHANGARA 19349

DOB: 03/07/2019

ANIMAL INDENT:
13649019349

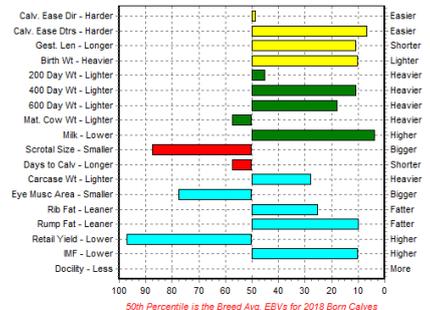
SIRE: RENNYLEA L508

H P C A INTENSITY

SCROTAL
35cm

RENNYLEA H414(AI)

EBV Percentiles for WHANGARA 19349 (PV)



DAM: WHANGARA 17038

EF COMPLEMENT 8088

WHANGARA 057

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+2.0	+8.1	-7.1	+2.2	+47	+97	+125	+90	+24	+0.9	-4.0
59%	51%	84%	74%	69%	70%	70%	66%	59%	73%	41%

CARCASE EBVS

CWT	EMA	RIB	RUMP	RBY	IMF	DOCILITY
+68	+3.6	+0.8	+1.6	-1.3	+3.1	
61%	60%	64%	62%	60%	60%	

INDEXES VALUES (\$)	SR
	+\$153
INDEXES VALUES (\$)	AP
	+\$190

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		

10

BRED FOR BETTER BEEF

LANE BROTHERS
WHANGARA ANGUS



LOT 19

WHANGARA 19353

DOB: 02/07/2019

ANIMAL INDENT:
13649019353

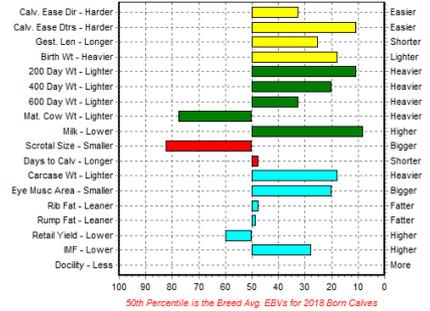
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
35cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19353 (PV)



DAM: WHANGARA 17008

EF COMPLEMENT 8088

WHANGARA 15016

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+4.2	+6.7	-5.7	+2.8	+54	+93	+117	+80	+22	+1.1	-4.5
58%	46%	85%	74%	69%	68%	66%	64%	57%	71%	33%

CARCASS EBVS							DOCILITY	INDEXES VALUES (\$)	SR
CWT	EMA	RIB	RUMP	RBY	IMF				
+71	+7.2	+0.1	-0.2	+0.2	+2.3			+\$184	
60%	57%	60%	58%	56%	55%			+\$203	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 20

WHANGARA 19350

DOB: 03/07/2019

ANIMAL INDENT:
13649019350

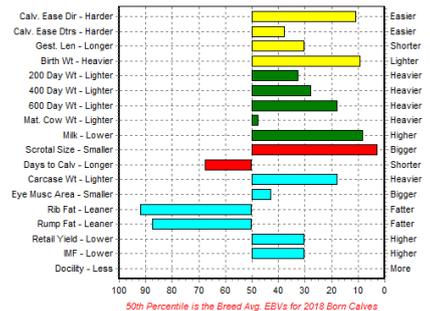
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
42cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19350 (PV)



DAM: WHANGARA 17132

KAKAHU TOMMY 13170

WHANGARA 12029

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+7.6	+3.7	-5.4	+2.1	+49	+91	+123	+96	+22	+3.7	-3.5
56%	41%	83%	73%	68%	68%	65%	62%	53%	70%	29%

CARCASS EBVS							DOCILITY	INDEXES VALUES (\$)	SR
CWT	EMA	RIB	RUMP	RBY	IMF				
+71	+5.7	-1.7	-1.9	+0.9	+2.2			+\$158	
58%	56%	58%	57%	54%	53%			+\$190	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

LOT 21

WHANGARA 19363

DOB: 07/07/2019

ANIMAL INDENT:
13649019363

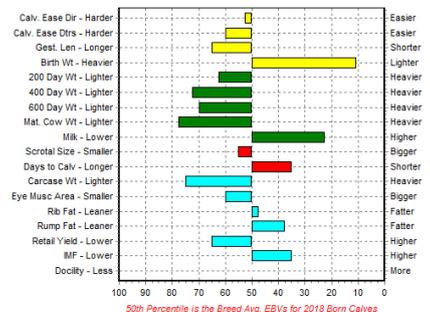
SIRE: SYDGEN ENHANCE

SYDGEN EXCEED 3223

SCROTAL
36cm

SYDGEN RITA 2618

EBV Percentiles for WHANGARA 19363 (PV)



DAM: WHANGARA 17120

KAKAHU TOMMY 13170

WHANGARA 14119

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC
+1.8	+1.1	-3.4	+2.5	+44	+77	+100	+81	+19	+1.7	-5.2
57%	42%	83%	73%	68%	68%	65%	63%	54%	70%	29%

CARCASS EBVS							DOCILITY	INDEXES VALUES (\$)	SR
CWT	EMA	RIB	RUMP	RBY	IMF				
+53	+4.7	+0.1	+0.2	+0.1	+2.1			+\$143	
58%	55%	58%	56%	54%	53%			+\$172	

GENETIC CONDITIONS AM FU NH FU CA FU DD FU

PURCHASER:

PRICE \$:

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



REFERENCE SIRES

REFERENCE SIRE

REILAND HILARY H874(AI)

DOB: 26/10/2012

ANIMAL INDENT:
AUNLRH874

SIRE: TE MANIA BERKLEY B1(AI)

TE MANIA YORKSHIRE Y437(AI)

TE MANIA LOWAN Z53(AI)(ET)

INDEXES
VALUES (\$)

SR

AP

DAM: STRATHEWEN 338 JADE E01(AI)

HYLINE RIGHT TIME 338 (IMP)

STRATHEWEN 1407 JADE C05(AI)(ET)

GROUP BREEDPLAN EBVS											CARCASE EBVS					
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+3.2	+3.6	-6.5	+4.0	+53	+93	+127	+115	+19	+4.6	-9.7	+72	+8.0	-0.2	-1.4	+1.2	+2.8
78%	66%	97%	97%	94%	94%	94%	84%	74%	91%	62%	80%	81%	82%	81%	78%	78%

REFERENCE SIRE

RENNYLEA L508

DOB: 17/08/2015

ANIMAL INDENT:
AUNORL508

SIRE: H P C A INTENSITY

G A R INGENUITY

G A R PREDESTINED 287L

INDEXES
VALUES (\$)

SR

AP

DAM: RENNYLEA H414(AI)

TE MANIA BERKLEY B1(AI)

RENNYLEA C310(AI)

GROUP BREEDPLAN EBVS											CARCASE EBVS					
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+1.0	+6.2	-6.2	+2.6	+46	+90	+119	+93	+29	+1.6	-6.7	+68	+5.9	+0.2	+0.3	-1.0	+4.0
82%	66%	99%	98%	98%	98%	97%	86%	76%	97%	58%	81%	86%	86%	84%	80%	84%

REFERENCE SIRE

SYDGEN ENHANCE

DOB: 27/01/2015

ANIMAL INDENT:
US18170041

SIRE: SYDGEN EXCEED 3223

SYDGEN GOOGOL

SYDGEN FOREVER LADY 1255

INDEXES
VALUES (\$)

SR

AP

DAM: SYDGEN RITA 2618

SYDGEN LIBERTY GA 8627

FOX RUN RITA 9308

GROUP BREEDPLAN EBVS											CARCASE EBVS					
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+3.2	+3.2	-3.7	+3.1	+61	+109	+135	+103	+20	+3.1	-4.6	+83	+8.2	-1.2	-1.6	+1.3	+2.4
81%	49%	99%	98%	97%	92%	86%	81%	76%	87%	34%	82%	77%	78%	73%	73%	73%

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

																INDEXES (\$)		
CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		



REFERENCE SIRE

REFERENCE SIRE

G A R ASHLAND

DOB: 31/01/2015

ANIMAL INDENT:
US18217198

SIRE: G A R EARLY BIRD

DAM: CHAIR ROCK AMBUSH 1018

G A R DAYLIGHT

G A R PROGRESS 830

B/R AMBUSH 28

G A R YIELD GRADE N366

INDEXES
VALUES (\$)

SR

AP

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+4.5	+7.2	-6.4	+3.7	+67	+115	+141	+113	+17	+0.9	-4.5	+79	+10.8	-2.3	-2.8	+2.1	+2.8
70%	50%	97%	97%	94%	93%	86%	81%	77%	89%	41%	83%	79%	79%	75%	75%	76%

CARCASS EBVS

CWT	EMA	RIB	RUMP	RBY	IMF
+79	+10.8	-2.3	-2.8	+2.1	+2.8
83%	79%	79%	75%	75%	76%

REFERENCE SIRE

WHANGARA 17313

DOB: 20/07/2017

ANIMAL INDENT:
13649017313

SIRE: WHANGARA 15330

DAM: WHANGARA 15128

SYDGEN BLACK PEARL 2006

WHANGARA 0561

WHANGARA 13345

WHANGARA 12078

INDEXES
VALUES (\$)

SR

AP

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+3.7	+7.2	-3.2	+2.7	+50	+85	+119	+89	+22	+1.6	-1.8	+63	+6.3	+0.7	+0.1	+0.6	+1.2
59%	47%	62%	78%	72%	72%	74%	69%	57%	73%	35%	61%	58%	62%	61%	57%	55%

CARCASS EBVS

CWT	EMA	RIB	RUMP	RBY	IMF
+63	+6.3	+0.7	+0.1	+0.6	+1.2
61%	58%	62%	61%	57%	55%

REFERENCE SIRE

WHANGARA 17328

DOB: 25/07/2017

ANIMAL INDENT:
13649017328

SIRE: EF COMPLEMENT 8088

DAM: WHANGARA 13010

BASIN FRANCHISE P142

EF EVERELDA ENTENSE 6117

SYDGEN TRUST 6228

WHANGARA 08073

INDEXES
VALUES (\$)

SR

AP

GROUP BREEDPLAN EBVS

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF
+8.1	+10.8	-7.9	+1.3	+47	+86	+107	+76	+21	+1.0	-4.6	+63	+5.5	+1.5	+1.7	-0.8	+1.9
67%	59%	85%	81%	76%	75%	76%	73%	67%	75%	50%	68%	65%	68%	66%	65%	64%

CARCASS EBVS

CWT	EMA	RIB	RUMP	RBY	IMF
+63	+5.5	+1.5	+1.7	-0.8	+1.9
68%	65%	68%	66%	65%	64%

2020 ANGUS BREED AVERAGE FOR 2018 BORN CALVES

CE DIR	CE DTRS	GL	BTH WT	200W	400W	600W	MWT	MILK	SS	DC	CWT	EMA	RIB	RUMP	RBY	IMF	INDEXES (\$)	
																	SR	AP
+1.6	+1.9	-4.3	+4.3	+46	+83	+109	+95	+16	+1.9	-4.3	+60	+5.3	+0.0	-0.2	+0.4	+1.7		

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NZ Angus Breedplan Percentile Bands for 2018 Born Calves

Percentile Band	Calving Ease DIR (%)	Calving Ease DTRS (%)	Gestation Length (days)	Birth Wt. (kg)	200 Day Wt (kg)	400 Day Wt (kg)	600 Day Wt (kg)	Mat Cow Wt (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (days)	Carcase Wt (kg)	Eye Muscle Area (sq cm)	Rib Fat (mm)	Rump Fat (mm)	Retail Beef Yield (%)	IMF (%)	Docility
Top Value	+16.9	+16.0	-16.3	-4.3	+79	+140	+189	+210	+37	+7.2	-14.0	+112	+18.9	+7.1	+7.0	+4.6	+6.3	+45
Top 1%	+12.1	+10.6	-10.0	+0.2	+63	+112	+150	+147	+26	+4.1	-9.2	+87	+11.4	+3.2	+3.3	+2.6	+4.2	+32
Top 5%	+9.8	+8.5	-8.1	+1.5	+58	+103	+137	+130	+23	+3.3	-7.8	+79	+9.3	+2.1	+2.1	+1.9	+3.5	+24
Top 10%	+8.4	+7.3	-7.2	+2.2	+55	+98	+130	+121	+22	+3.0	-7.1	+75	+8.3	+1.6	+1.6	+1.5	+3.1	+20
Top 15%	+7.3	+6.4	-6.6	+2.6	+53	+95	+126	+116	+20	+2.7	-6.6	+72	+7.7	+1.3	+1.2	+1.3	+2.8	+17
Top 20%	+6.4	+5.7	-6.1	+2.9	+52	+93	+123	+112	+20	+2.5	-6.2	+70	+7.2	+1.0	+0.9	+1.1	+2.6	+15
Top 25%	+5.6	+5.0	-5.7	+3.2	+51	+91	+120	+108	+19	+2.4	-5.9	+68	+6.8	+0.8	+0.7	+1.0	+2.4	+13
Top 30%	+4.9	+4.5	-5.4	+3.4	+50	+89	+118	+105	+18	+2.3	-5.5	+67	+6.4	+0.6	+0.5	+0.9	+2.2	+11
Top 35%	+4.1	+3.9	-5.1	+3.6	+49	+88	+115	+102	+18	+2.2	-5.2	+65	+6.1	+0.5	+0.3	+0.8	+2.1	+9
Top 40%	+3.4	+3.4	-4.8	+3.9	+48	+86	+113	+100	+17	+2.0	-5.0	+64	+5.8	+0.3	+0.1	+0.6	+2.0	+8
Top 45%	+2.7	+2.8	-4.5	+4.1	+47	+85	+111	+97	+16	+1.9	-4.7	+63	+5.5	+0.2	+0.0	+0.5	+1.8	+6
Top 50%	+2.0	+2.3	-4.2	+4.3	+46	+84	+109	+95	+16	+1.8	-4.4	+61	+5.2	+0.0	-0.2	+0.4	+1.7	+5
Top 55%	+1.3	+1.7	-3.9	+4.5	+45	+82	+107	+92	+15	+1.7	-4.1	+60	+4.9	-0.1	-0.4	+0.3	+1.6	+4
Top 60%	+0.6	+1.1	-3.7	+4.7	+44	+81	+105	+90	+15	+1.6	-3.9	+58	+4.7	-0.3	-0.5	+0.2	+1.5	+2
Top 65%	-0.2	+0.5	-3.4	+4.9	+43	+79	+102	+87	+14	+1.5	-3.6	+57	+4.4	-0.4	-0.7	+0.1	+1.3	+1
Top 70%	-1.0	-0.2	-3.1	+5.1	+42	+77	+100	+85	+14	+1.4	-3.3	+55	+4.0	-0.6	-0.9	+0.0	+1.2	-1
Top 75%	-1.9	-0.9	-2.8	+5.3	+41	+75	+97	+82	+13	+1.3	-3.0	+53	+3.7	-0.8	-1.1	-0.2	+1.0	-2
Top 80%	-3.0	-1.8	-2.5	+5.6	+39	+73	+94	+79	+12	+1.2	-2.6	+51	+3.3	-1.0	-1.3	-0.3	+0.9	-4
Top 85%	-4.2	-2.8	-2.0	+5.9	+38	+71	+91	+75	+12	+1.0	-2.1	+48	+2.9	-1.2	-1.6	-0.5	+0.7	-6
Top 90%	-5.7	-4.1	-1.5	+6.3	+36	+67	+86	+69	+10	+0.8	-1.5	+44	+2.3	-1.5	-2.0	-0.7	+0.5	-9
Top 95%	-8.2	-6.0	-0.6	+6.9	+32	+62	+79	+61	+9	+0.5	-0.5	+37	+1.5	-2.0	-2.5	-1.1	+0.1	-13
Top 99%	-13.5	-9.7	+1.3	+8.2	+26	+52	+65	+45	+6	-0.2	+1.4	+26	-0.1	-2.9	-3.7	-1.8	-0.4	-22
Low Value	-34.9	-20.4	+6.2	+12.4	+6	+11	+1	-17	-4	-3.0	+7.4	+2	-5.8	-6.1	-7.6	-4.4	-2.3	-34





Why buy an i50K-tested bull?

1.

His Breeding Values are very accurate

A young bull that's been i50K tested has highly accurate BVs. You can therefore be more confident that his performance will match his figures.

2.

You'll make faster production gains

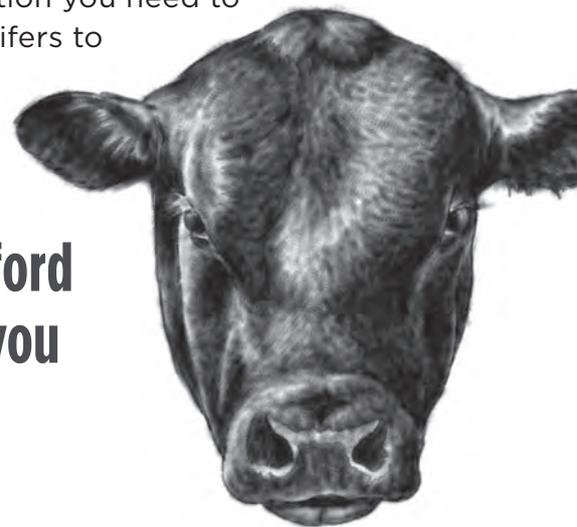
The bull you buy this season will influence your herd for the next 8-10 years. By buying an i50K-tested bull, your decision is based on the best information possible.

3.

Boost the performance of your beef cow herd

If you breed your own heifer replacements, using an i50K-tested bull means you can tap into "HeiferSELECT®" - a new commercial farmer tool coming soon.

HeiferSELECT® provides the objective information you need to make more accurate decisions about which heifers to retain. It draws on maternal, growth and carcass (including marbling) traits.



If you're a progressive farmer, you can't afford not to buy an i50K-tested bull. He will get you where you want to go, faster. Much faster.

More information: www.genetics.zoetis.com/NewZealand



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TRANSTASMAN CATTLE EVALUATION (TACE) EXPLAINED

TransTasman Cattle Evaluation is a modern genetic evaluation programme for beef cattle breeders. It compares cattle on the basis of their breeding values.

TransTasman Cattle Evaluation (TACE) is formerly known as BreedPlan.

TACE provides predictions of the genetic merit of individual animals called Estimated Breeding Values (EBVs). These EBVs are used by Angus breeders and bull buyers to assist in selection decisions and purchase of breeding stock. EBVs are now accepted by most beef producers as an essential tool in the breeding and marketing of seedstock.

EBVs are based on all available pedigree and performance records provided by breeders in New Zealand and Australia, along with available overseas genetic information. EBVs provide the best means for comparison of the relative genetic merit of animals across the breed for those traits included in the analysis. EBVs obviously cannot be used in isolation in any selection or purchase decision. Visual assessment is still necessary for those characteristics not adequately described by EBVs.

GROUP TACE EBVs have been proven to be more accurate than raw performance measurements for assisting in the selection of breeding stock. Research results and industry experience has shown that that more rapid genetic gains can be achieved in herds which make use of EBVs in their selection decisions. In the calculation of EBVs all available pedigree and performance information on each animal and its relatives (parents, ancestors, siblings, progeny, etc.) is combined to provide a single best estimate of an individual's genetic merit for each trait. In addition, allowance is made for environmental differences between properties, seasons and management groups on each animal's performance. Differences in heritabilities between traits and genetic associations between traits are also accounted for in the calculation of EBVs.

The service is run by the Agricultural Business Research Institute (ABRI) at the University of New England, Armidale, NSW., Australia. TACE research and development is carried out by the Animal Genetics and Breeding Unit (AGBU), also at the University of New England.

AN OVERVIEW OF TACE

What you see in an animal is the effect of genes they inherit from their parents modified by the effect of non-genetic (environmental) factors such as feeding and parasite control, sex, age of dam etc.

To improve your herd by selection, you need to evaluate the genetic merit of cattle – that is the proportion of the animals performance which is controlled by its genes, and not its overall performance which has been influenced by environmental and other non-genetic effects.

Early approaches to performance recording used the ratio system. The animals performance was corrected for sex, age of calf and age of dam, and then compared as a percentage to other animals within the same management group. Comparison of animals across management groups, herds or years was not possible using this system.

TACE represents a major improvement over the more traditional methods of performance recording. It uses all the records available on the animal and its relatives to disentangle genetic and environmental factors, giving the best estimate of the animals breeding value that is possible from the available information.

To allow comparison of animals from between management groups or even different properties genetic links between contemporary groups are essential. A genetic link is achieved where animals in one group/herd have a parent in common with an animals in another group/herd. For sires, this cross linkage is usually achieved through AI but could also be through common dams.

TACE uses "multiple trait" evaluation which further increases the accuracy of the EBVs. Because there is usually a genetic association between different traits (which may be positive or negative and vary from weak to strong) this information can be used enhance measurements of recorded traits or estimate an animal's breeding value for traits that have not been directly measured.

For example, 200 day weight has a positive association with 400 day weight – that is, as 200 day weight increases so does 400 day weight.

The multiple trait analysis also helps to reduce the "bias" which can be introduced by a previous selection decision, say selective joining or dis-proportional culling. For example, culling of lighter calves at weaning will give higher group average 400 day weight. The fact that the remaining animals have a higher group average as a result of previous culling is accounted for in TACE as long as the records of the previously culled animals are included in the evaluation.

EBVs are expressed in the same units as they were measured (eg, kg) and are estimated relative to the breed benchmark of zero, which was established at the time of the first analysis.

WHAT DOES TACE DO?

TACE adjusts field measurements (raw data) submitted by the breeder to calculate an estimate of the animals breeding value (EBV). It uses information from the performance of the individual animal as well as its relatives, and allows for differences in environment and chance that animals have been exposed to and that would otherwise bias our selection decisions.

It provides the best estimate of an animal's breeding value from the information available. TACE is a useful aid to selection, not because you are a poor judge of cattle but because when it comes to long term memory recall or making simultaneous adjustments for known environmental effects over a number of traits, human brain power is no match for a computer.

WHY USE TACE TO ANALYSE PERFORMANCE RECORDS?

What we see or measure in an animal is influenced by both environmental and genetic factors.

Environmental factors influence the way an animal may look or perform within a given environment but not the way his progeny will look or perform within a different environment. Environmental influences include nutrition (differences between paddocks or properties, supplementary feeding, or trace mineral capsules), management such as castration and drenching, grooming and clipping, gut-fill, ill-health, and parasites.

Observed differences of performance between animals resulting from differences in environment can be large, but are not inherited by their progeny, and as such can lead our selection decision astray.

Genetic factors are the result of genes inherited from the parents and are the blueprint for future performance, both of the individual and its progeny.

You buy a bull not for what he looks like but how his progeny will perform. It is only when environment factors are either standardised or adjusted for that real genetic differences become apparent.

TACE uses sophisticated computing technology to adjust for known environmental effects over a number of selection traits.

WHAT ARE THE KEY FEATURES OF THE TACE ANALYSIS?

Key features of TACE include:

- Calculating breeding values for all animals and all traits simultaneously, hence its description as a "Multiple Trait Animal Model".
- Using performance information from relatives and progeny, as well as the individual animal.
- Using the known correlation between traits to increase the accuracy of measured traits and to calculate EBVs for non-measured traits such as birth weight or weight at later ages.
- The use of "country of origin" performance information of imported (introduced) animals.
- Adjusting for the effects of differences of nutrition, age of dam, age of calf and management group treatments. These are non-genetic differences that will affect the observed performance of the individual but are not passed onto its progeny.
- Adjusting for the effects of preferential mating of a sire to selected cows, unequal and selective culling, and competition between comparison groups.

Removing these biases and taking into account the performance of other animals makes TACE predictions more accurate than predictions on visual assessment.

As well as giving you EBVs for your animals, TACE also plots the genetic trend for your herd. This trend shows you the genetic direction of your herd for individual traits from year to year, and also lets you see the effect of environmental changes such as pasture improvement on your overall herd production.

Visit Beef + Lamb New Zealand Genetics for further information.



EBVS EXPLAINED

Selection Indexes and Accuracy

EBVs

An animal's breeding value is its genetic merit, half of which will be passed on to its progeny. While we will never know the exact breeding value, for performance traits it is possible to make good estimates. These estimates are called Estimated Breeding Values (EBVs).

In the calculation of EBVs, the performance of individual animals within a contemporary group is directly compared to the average of other animals in that group. A contemporary group consists of animals of the same sex and age class within a herd, run under the same management conditions and treated equally. Indirect comparisons are made between animals reared in different contemporary groups, through the use of pedigree links between the groups.

EBVs are expressed in the units of measurement for each particular trait. They are shown as +ive or -ive differences between an individual animal's genetics difference and the genetic base to which the animal is compared. For example, a bull with an EBV of +50 kg for 600-Day Weight is estimated to have genetic merit 50 kg above the breed base of 0 kg. Since the breed base is set to an historical benchmark, the average EBVs of animals in each year drop has changed over time as a result of genetic progress within the breed.

The absolute value of any EBV is not critical, but rather the differences in EBVs between animals. Particular animals should be viewed as being "above or below breed average" for a particular trait.

Whilst EBVs provide the best basis for the comparison of the genetic merit of animals reared in different environments and management conditions, they can only be used to compare animals analysed within the same analysis. Consequently, NZ ANGUS BREEDPLAN EBVs cannot be validly compared with EBVs for any other breed.

Although EBVs provide an estimate of an animal's genetic merit for a range of production traits, they do not provide information for all of the traits that must be considered during selection of functional animals. In all situations, EBVs should be used in conjunction with visual assessment for other traits of importance (such as structural soundness, temperament, fertility etc). A recommended practice is to firstly select breeding stock based on EBVs and to then select from this group to ensure that the final selections are otherwise acceptable.

EBVs are published for a range of traits covering fertility, calving ease, milking ability, growth, carcass merit and feed efficiency. When using EBVs to assist in selection decisions it is important to achieve a balance between the different groups of traits and to place emphasis on those traits that are important to the particular herd, markets and environment. One of the advantages of having a comprehensive range of EBVs is that it is possible to avoid extremes in particular traits and select for animals with balanced overall performance.

Calving Ease EBVs (%) are based on calving difficulty scores, birth weights and gestation length information. More positive EBVs are favourable and indicate easier calving.

CE % Direct = Direct Calving Ease - The EBV for direct calving ease indicates the influence of the sire on calving ease in purebred females calving at two years of age.

CE % Daughters = Daughters' Calving Ease - The EBV for daughters' calving ease indicates how easily that sire's daughters will calve at two years of age.

Gestation Length EBV (days) is an estimate of the time from conception to the birth of the calf and is based on AI and hand mating records. Lower (negative) GL EBVs indicate shorter gestation length and therefore easier calving and increased growth after birth.

Birth Weight EBV (kg) is based on the measured birth weight of progeny, adjusted for dam age. The lower the value, the lighter the calf at birth and the lower the likelihood of a difficult birth. This is particularly important when selecting sires for use over heifers.

200-Day Growth EBV (kg) is calculated from the weight of progeny taken between 80 and 300 days of age. Values are adjusted to 200 days and for age of dam. This EBV is the best single estimate of an animal's genetic merit for growth to early ages.

400-Day Weight EBV (kg) is calculated from the weight of progeny taken between 301 and 500 days of age, adjusted to 400 days and for age of dam. This EBV is the best single estimate of an animal's genetic merit for yearling weight.

600-Day Weight EBV (kg) is calculated from the weight of progeny taken between 501 and 900 days of age, adjusted to 600 days and for age of dam. This EBV is the best single estimate of an animal's genetic merit for growth beyond yearling age.

Mature Cow Weight EBV (kg) is based on the cow weight when the calf is weighed for weaning, adjusted to 5 years of age. This EBV is an estimate of the genetic difference in cow weight at 5 years of age and is an indicator of growth at later ages and potential feed maintenance requirements of the females in the breeding herd. Steer breeders wishing to grow animals out to a larger weight may also use the Mature Cow Weight EBV.

Milk EBV (kg) is an estimate of an animal's milking ability. For sires, this EBV indicates the effect of the daughter's milking ability, inherited from the sire, on the 200-day weights of her calves. For dams, it indicates her milking ability.

Scrotal Size EBV (cm) is calculated from the circumference of the scrotum taken between 300 and 700 days of age and adjusted to 400 days of age. This EBV is an estimate of an animal's genetic merit for scrotal size. There is also a small negative correlation with age of puberty in female progeny and therefore selection for increased scrotal size will result in reduced age at calving of female progeny.

Days to Calving EBV (days) indicates the fertility of the daughters of the sire. It is the time interval between the day when the female is first exposed to a bull in a paddock mating to the day when she subsequently calves. A negative EBV for days to calving indicates a shorter interval from bull-in date to calving and therefore higher fertility.

Carcass Weight EBV (kg) is based on abattoir carcass records and is an indicator of the genetic differences in carcass weight at the standard age of 750 days.

Eye Muscle Area EBV (sq cm) is calculated from measurements from live animal ultrasound scans and from abattoir carcass data, adjusted to a standard 400 kg carcass. This EBV estimates genetic differences in eye muscle area at the 12/13th rib site of a 400 kg dressed carcass. More positive EBVs indicate better muscling on animals. Sires with relatively higher EMA EBVs are expected to produce better-muscled and higher percentage yielding progeny at the same carcass weight than will sires with lower EMA EBVs.

Rib Fat and Rump Fat EBVs (mm) are calculated from measurements of subcutaneous fat depth at the 12/13-rib site and the P8 rump site (from live animal ultrasound scans and from abattoir carcasses) and are adjusted to a standard 400 kg carcass. These EBVs are indicators of the genetic differences in fat distribution on a standard 400 kg carcass. Sires with low, or negative, fat EBVs are expected to produce leaner progeny at any particular carcass weight than will sires with higher EBVs.

Retail Beef Yield EBV (%) indicates genetic differences between animals for retail yield percentage in a standard 400 kg carcass. Sires with larger EBVs are expected to produce progeny with higher yielding carcasses.

Intramuscular Fat EBV (%) is an estimate of the genetic difference in the percentage of intramuscular fat at the 12/13th rib site in a 400 kg carcass. Depending on market targets, larger more positive values are generally more favourable.

Docility EBV (%) is an estimate of the genetic differences between animals in temperament. Docility EBVs are expressed as differences in the percentage of progeny that will be scored with acceptable temperament (ie. either "docile" or "restless").

SELECTION INDEXES

There are currently two different selection indexes calculated for New Zealand Angus animals. These are Self-Replacing and AngusPure. Each selection index describes a different production/ market scenario and relates to a typical commercial herd in New Zealand that is targeting the following specifications.

Index values are reported as EBVs, in units of relative earning capacity (\$'s) for a given market. They reflect both the short-term profit generated by a sire through the sale of his progeny, and the longer-term profit generated by his daughters in a self-replacing cow herd. More information is available on selecting animals using a selection index.

The Index values are derived using BreedObject technology. More information is available from the BreedObject web site.

Self-Replacing Index (\$) - Estimates genetic differences between animals in net profitability per cow joined for a self-replacing commercial herd, targeting the production of grass finished steers. Steers are assumed marketed at 525 kg live weight (280 kg carcass weight and 10 mm fat depth) at 16 months of age.

AngusPure Index (\$) - Estimates genetic differences between animals in net profitability per cow joined for a self-replacing commercial Angus herd, targeting the production of grass finished steers for the AngusPure programme. Steers are assumed marketed at 525 kg live weight (280 kg carcass weight and 10 mm fat depth) at 18 months of age with a significant premium paid for marbling.

Note that \$Index values for individual animals are sensitive to the assumptions used in the BreedObject analysis to calculate the selection index. More information is available on the weightings used in the New Zealand Angus Selection Indexes.

ACCURACY

Accuracy (%) is based on the amount of performance information available on the animal and its close relatives - particularly the number of progeny analysed. Accuracy is also based on the heritability of the trait and the genetic correlations with other recorded traits. Hence accuracy indicates the "confidence level" of the EBV. The higher the accuracy value the lower the likelihood of change in the animal's EBV as more information is analysed for that animal or its relatives. Even though an EBV with a low accuracy may change in the future, it is still the best estimate of an animal's genetic merit for that trait. As more information becomes available, an EBV is just as likely to increase in value, as it is to decrease.

Accuracy values range from 0-99%.

As a rule, animals should be compared on EBVs regardless of accuracy. However, where two animals have similar EBVs the one with higher accuracy could be the safer choice, assuming other factors are equal.

For further information please contact NZ Angus or BREEDPLAN.



LANE BROTHERS
WHANGARA ANGUS

YEARLING BULL SALE
TUESDAY 22ND SEPTEMBER 2020

21

NOTES

A series of horizontal dotted lines for taking notes.

Exclusive Bull Cover

What is Exclusive Bull cover?

FMG has partnered with Angus NZ to offer comprehensive insurance cover from the fall of the hammer with this vendor. All bulls auctioned at this exclusive Angus NZ and FMG sale up to the value of \$50,000 will automatically be covered under FMG's Exclusive Bull cover for 14 days at no cost to the purchaser.

Length of cover

To extend cover for the specified bull beyond 14 days you need to tick Exclusive Bull cover 12 months on the Purchaser Instruction and Insurance Slip in this catalogue. The specified bull is then covered for the remaining period of 12 months. The premium is payable to FMG and is in addition to the purchase price of the bull.

If you require an alternative cover period talk to an FMG representative.

Your bull's value

Any bull covered under this policy must be purchased for \$50,000 or less.

For any bull purchased over \$50,000 talk to an FMG representative.

During the period of insurance, the specified animal is covered for:

- Death or infertility as a result of accident, disease or illness.
- Transit.
- Theft.

What we will pay

Fair market value of your specified bull, less any amount you receive for the sale of the carcass, up to the amount shown on the insurance certificate.

Disclaimer

Please note this is only a summary of the product and is subject to our specific product documentation. For full details, you should refer to the policy document. You can get these documents, and any other information you need, from your FMG representative, by calling us or visiting our website.



Purchaser Instruction and Insurance Slip

This slip MUST be completed and handed to the Booking Clerk before leaving the sale.

Purchaser name:		NAIT No:	
Relationship to purchaser (if purchasing on behalf of):			
Email:			
Postal address:			
Delivery address:			
Telephone:		Mobile:	

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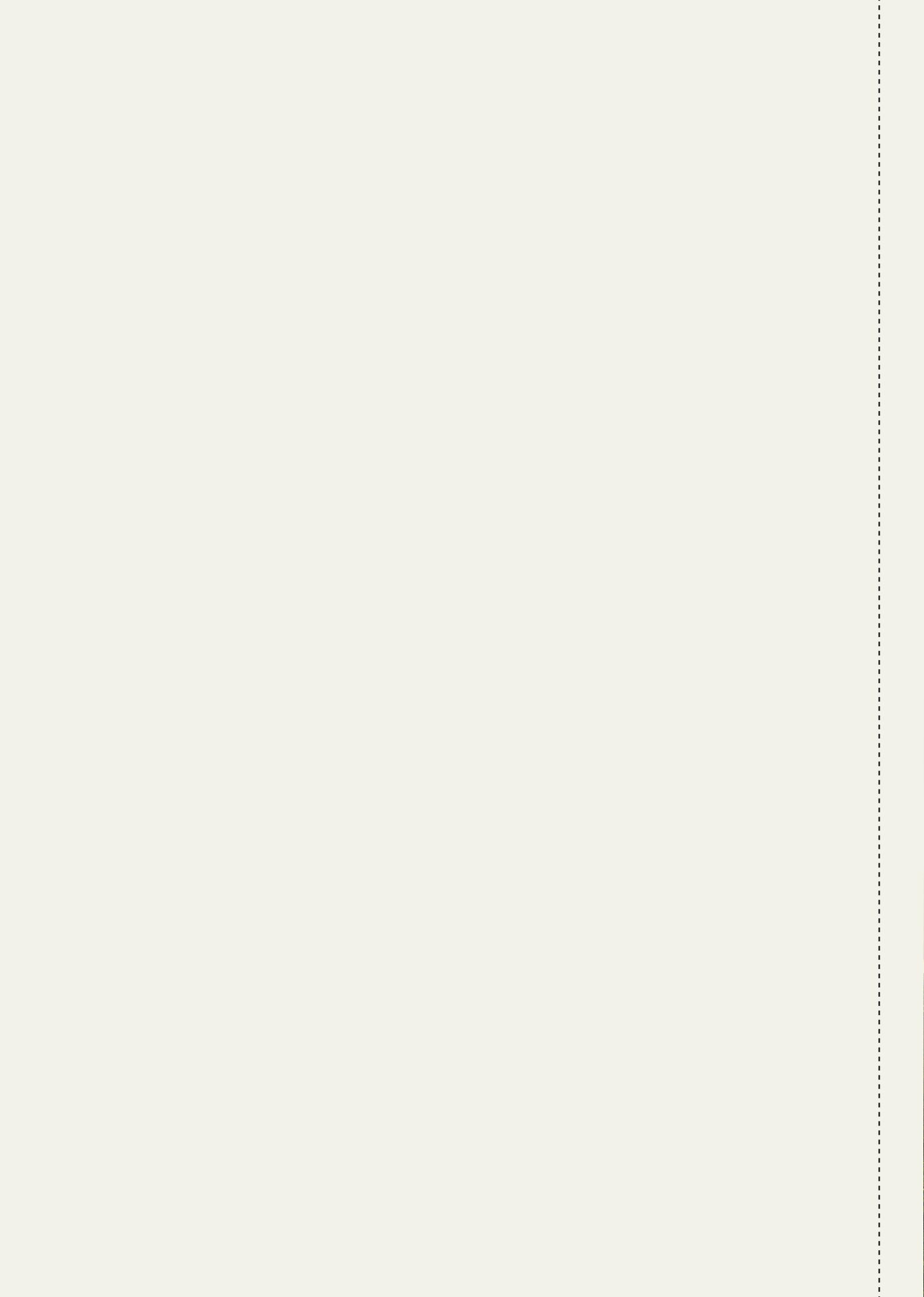
Company to be debited:
Transport instructions: Whangara Angus will arranged trucking with their preferred carriers.

FMG Insurance Cover:
<input checked="" type="checkbox"/> 14 days - FMG Exclusive Bull cover (at no charge) <input type="checkbox"/> Extend cover to 12 months - FMG Exclusive Bull cover

FMG and Angus New Zealand have partnered to offer comprehensive cover for bulls.
If you would not like your information shared between the two of us, tick this box:

NO VERBAL INSTRUCTIONS WILL BE ACCEPTED	Signature of Purchaser or Agent	Date / /
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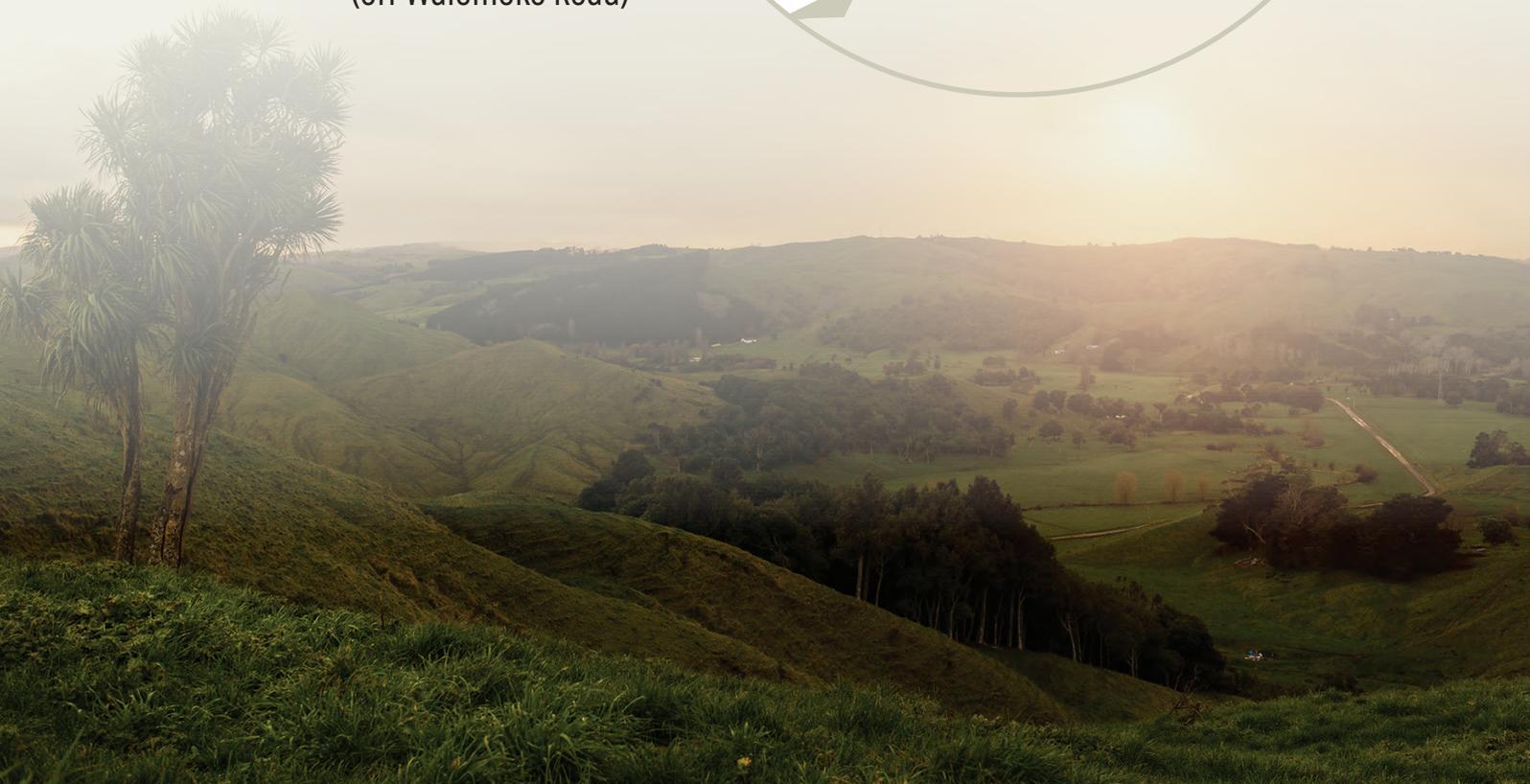
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Name of sale:	Date of sale: / /
FMG employee:	





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