

# COOLIE ANGUS MERRIWA

# Bull sale



# Friday 20 August 2021

Inspections 10 am, Sale 1 pm 2047 Willow Tree Rd, Merriwa NSW



#### **DIRECTIONS**

To Coolie Angus from Merriwa take the Scone Road for 3 km. Turn left onto Willow Tree road (sign says Willow Tree / Tamworth) and follow this road for 21 km. Coolie Angus is on the left hand side.

Inspections: Bulls will be on display from 10 am on the morning of the sale.

Refreshments: Morning Tea and BBQ Lunch will be served compliments of Coolie Angus.

#### **PLEASE NOTE**

Animal Health Certification: All bulls have been regularly vaccinated and drenched, and are currently up to date with 7-in-1, Vibriosis and Cydectin.

Fertility: Bulls semen tested and passed by Brendan Coonan on 9 June 2021.

**DNA Paternity Verification:** It is a requirement of Angus Australia that all bulls used to sire calves for registration in the society's HBR or APR must have DNA paternity verified if they are born in or after the year 2003. All bulls catalogued have had DNA samples submitted to the Angus Society.

Semen Collection: Coolie Angus retains the right to collect semen from all sale bulls for use within the Coolie herd. Semen collection will be at Coolie Angus's expense and the purchasers convenience.

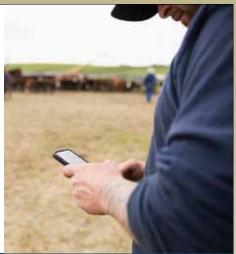
Guarantee: All bulls are guaranteed sound and fertile at the time of sale, and will be guaranteed for fertility for a period of 12 months after sale (provided infertility is not caused by an injury suffered or disease contracted after sale).

**Agent Rebate:** The vendors agree to a 2% rebate to agents who attend or purchase on behalf of their clients and settle accounts within 7 days.

Coolie Angus Bulls have only been handled quietly with horse, bike and dog.







### Can't make the sale?

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# Nelcome

What an amazing time to be part of our Australian beef industry — with record prices across the board, the premiums Angus cattle are achieving is unprecedented.

The restocking after the previous tough seasons is continuing to be a key driver, and anyone who has invested in quality genetics will be benefiting now and into the future. Our eastern states long range forecast looks promising for spring and summer, and a record EYCI has industry confidence at an all-time high.

We are proud to offer an exciting line-up of bulls this year, consisting of 26 two-year olds and 24 Autumn drop eighteen month olds. The bulls are very even with plenty of Australian bred sires used. Solid data sets are evident throughout the catalogue with over 60% of the bulls being suitable for heifer joinings, whilst still offering plenty of growth. The bulls are a great reflection of Coolie Angus commitment to a quality genetics breeding program.

With the recent flare up of Covid-19, we will be adhering to the up-to-date government recommendations on the day of our sale. We ask that you please assist us in following with these recommendations. Morning tea and BBQ lunch will be available.

We look forward to welcoming you on Friday 20th August 2021.

Jamie Edmonds



# EBV Quick Reference for Coolie Angus Bull Sale

	Calvin	Calving Ease	Birth	£		Growth	th.		, in	Fertility				Carcase				Other		Select	Selection Indexes	es
Animal Ident	CED	CEM	GL	BW	200	400	009	MCW	Milk	SS	DC	CWT	EMA	Rib Ru	am	RBY	IN HWI	NFI-F Doc	c ABI		GRN	GRS
1 EJKQ134	-7.9	-9.4	-4.2	+6.4	+65	+117	+154	+150	+20	+4.1												
2 EJKQ102	+2.3	+2.2	-5.5	+6.5	+51	+92	+116	+109	+20	+3.4	6.4	+62	+5.5	+2.2 +	+0.2 -(	-0.1 +	+1.4 +0	+0.02	. \$109	9 \$107	2 \$109	8109
3 EJKQ119	-2.5	+1.8	-3.3	+5.4	+63	+111	+140	+111	+20	+1.8	-5.0	+83	+3.5	+0.5	-0.7 +	+0.3 +(	+0.5 +0	- 60:0+	. \$117	7 \$115	5 \$110	) \$121
4 EJKQ136	+2.4	+2.9	-3.7	+3.5	+54	+92	+113	+82	+21	4.1+	-4.6	+74	+2.8 +	+1.6 +	- 0.0+	-0.6 +	+1.7 +0	+0.46	. \$107	17 \$109	\$103	3 \$109
5 EJKQ122	+1.3	-3.2	4.9	+3.4	+52	96+	+120	+120	+19	+3.0	-5.7	99+	+4.4	-1.0	+ 0.1-	+1.0 +	+1.7 +0	+0.02	. \$120	0 \$115	5 \$128	3 \$115
6 EJKQ123	+3.3	+1.1	-6.6	+5.3	+20	+93	+113	+107	+17	+2.9	6.9-	+63	+ 9.7+	+ 0.7 +	+1.2 +1	+0.4 +2	+2.0 +0	- 70.0+	. \$130	0 \$122	2 \$139	9 \$124
7 EJKQ85	+10.0	+7.6	8.6-	+5.1	+52	+93	+113	+94	+17	+2.6	-7.0	+64	+6.0	+2.0 +	+ 6.0+	+0.0+	+1.1 -0	-0.03	. \$123	3 \$120	3120	) \$123
8 EJKQ86	+12.4	+6.2	-6.4	+3.2	+43	+83	+98	+72	+22	+2.5	-5.1	+57 +	+5.5	+1.0 +	+0.1	+0.0+	+1.4 +0	+0.38	. \$106	16 \$110	) \$101	1 \$107
9 EJKQ155	9.0+	+3.3	-6.2	+4.9	+44	+82	+108	+111	+111	+2.1	-5.1	+64	+4.9	+0.9	-0.5	+0.5 +2	+2.2 +0	+0.15	\$117	7 \$108	3 \$129	9 \$111
10 EJKQ151	-2.9	-1.0	-3.6	+5.8	+42	+79	+104	+97	+17	+3.5	6.4	+55+	+9.3	+0.1	-0.3 +	+1.7 +′	+1.4 +0	- 90:0+	\$111	1 \$105	5 \$114	4 \$108
11 EJKQ139	4.8	+0.1	-4.2	+3.6	+49	+86	+108	+92	+14	+1.7	-4.2	99+	- 1.7+	-1.7	-3.1 +	+1.9 +2	+2.4 +0	+0.26 -	. \$126	16 \$122	2 \$140	\$119
12 EJKQ63	-8.7	6.0-	-6.3	+6.1	+63	+118	+161	+173	+19	+2.9	-0.2	+83	+5.4	-2.3	.+ 0.4-	+2.4 +′	+1.2 -0	-0.16	. \$119	9 \$111	1 \$131	1 \$118
13 EJKQ59	+8.4	+3.1	-6.1	+2.1	+52	+92	+116	+93	+22	+2.2	-3.6	09+	+9.2	+0.3	-1.2 +	,+ 0.1+	+1.9 +0	+0.21	. \$124	.4 \$121	1 \$128	3 \$123
14 EJKQ106	+2.8	+6.2	-5.1	+4.1	+47	98+	+106	+108	+11	+1.2	1.4	69+	- 9.8+	-0.5	+ +++++++++++++++++++++++++++++++++++++	+1.3 +′	+1.4 +0	+0.25 -	. \$115	5 \$115	5 \$118	3 \$114
15 EJKQ153	+6.7	+9.8	-6.0	+4.3	+57	+103	+129	+104	+19	+2.9	-7.6	+70	-4.7	-0.1 +	+1.5 +	+0.2 +2	+2.5 -0	-0.02	. \$155	5 \$138	3 \$170	3146
16 EJKQ108	-2.7	-1.7	-3.6	+5.6	+58	+105	+133	+126	+15	+1.6	-3.9	+73 +	- 9.7+	-0.9	+ 9.0-	+1.6 +2	+2.4 -0	-0.16	. \$138	18 \$127	7 \$154	4 \$131
17 EJKQ92	+11.3	+9.2	-5.9	+2.7	+42	+81	66+	+89	+21	+2.8	-6.5	+55	+5.7	+2.9 +	- 9.0+	-0.4 +	+1.1 +0	- 40.47	\$100	107	7 \$101	1 \$107
18 EJKQ93	+11.3	+9.2	-5.9	+2.7	+42	+81	66+	68+	+21	+2.8	-6.5	+55+	+5.7	+2.9 +	)- 9.0+	-0.4 +	+1.1 +0	- 74.0+	. \$106	101\$ 9107	7 \$101	1 \$107
19 EJKQ87	+5.5	+7.4	-2.2	+2.2	+51	+93	+113	+80	+16	+1.8	-5.4	+73	+2.6	+1.6 +	- 0.1+	-0.8 +	+1.5 -0	-0.02	. \$117	7 \$116	\$ \$112	2 \$118
20 EJKQ88	+5.5	+7.4	-2.2	+2.2	+51	+93	+113	+80	+16	41.8	-5.4	+73	+2.6	+1.6 +	- 1.0	-0.8	+1.5 -0	-0.02	. \$117	7 \$116	5 \$112	2 \$118
21 EJKQ42	4.1+	+1.8	-7.0	+4.2	+40	+79	+112	+91	+15	+2.3	-2.8	+48	+2.6	-0.4	-0.5	+ 6.0+	-00.6	-0.20	\$101	11 \$98	96\$	\$105
22 EJKQ62	-0.1	+1.3	-5.7	+4.5	+46	+85	+110	+103	+15	44.4	4.4	+59	+6.0	+0.3 +	+ 2.0+	+1.8 +(	+0.5 +0	+0.34	. \$110	0 \$110	\$104	4 \$112
23 EJKQ149	<del>1</del> .	+2.8	-2.8	+2.9	+34	+62	+77	+70	+ 111	+1.6	-5.0	+43	+5.1	+1.4	-0.9	+0.2 +′	+1.1 +0	- 00:0+	\$83	3 \$91	\$76	\$86
24 EJKQ156	+3.2	9.0+	-4.2	+3.8	+45	+80	+107	+61	+24	+2.0	-5.5	09+	- 4.7	+ 8.0-	- 9.0+	-0.1 +2	+2.0 +0	- 14.0+	. \$117	7 \$108	3 \$118	3 \$115
25 EJKQ169	+3.1	+2.6	-5.1	+4.7	+39	+75	+100	66+	+13	+2.0	4.0	+61	+4.5	-2.1	-2.4 +	+1.3 +′	+1.4 +0	+0.13 -	. \$103	3 \$102	2 \$108	3 \$101
26 EJKQ160	-5.9	-8.9	-2.4	+6.0	+41	<i>11</i> / <sub>+</sub>	+107	+117	+14	+1.9	4.5	+64	- 1.9	- 4.1-	-1.0 +	+0.8 +	+1.1 +0	+0.25 -	. \$85	5 \$83	\$87	\$82
27 EJKR51	-3.7	+3.9	-4.8	+6.4	+63	+116	+155	+153	+15	+4.0	9.9-	+88+	+2.1	- 9.0-	-1.7	-0.2 +2	+2.6 -0	-0.39	. \$145	5 \$122	2 \$169	9 \$133
28 EJKR27	+5.8	+4.8	-3.0	+2.7	+46	+88	+111	66+	+19	+1.1	6.0-	+26	+2.3	+ 9.0+	+ 2.0+	+0.1 +(	-0- 2.0+	-0.01	. \$93	3 \$103	3 \$81	\$102
29 EJKR28	-5.5	+4.3	-7.4	+5.6	+55	+95	+123	+125	+10	+0.3	-3.5	+ 62+	+6.2	+ 0.0+	+0.5	-0.2 +2	+2.0 -0	-0.17	. \$111	1 \$104	4 \$115	5 \$109
30 EJKR29	-7.4	-6.2	-4.3	+7.7	+63	+111	+153	+140	+16	+2.4	-2.4	+80	+1.6	-2.3	-2.0 +1	+0.3 +2	+2.5 -0	-0.23	. \$122	2 \$107	7 \$139	9 \$116
31 EJKR55	+5.4	+3.7	-6.2	+4.1	+40	+71	+89	+75	+10	+1.2	-4.9	+48	+9.2	+3.3 +	+2.3 +1	+0.2 +′	+1.0 +0	- 70.0+	. \$104	4 \$105	5 \$94	\$108
32 EJKR23	+8.0	+11.1	-3.7	+2.8	+44	+85	+103	+78	+22	-0.1	-8.0	+ 99+	+10.5	+0.0+	-0.1	+1.1 +	+1.5 +0	- 67.0+	. \$136	16 \$128	3 \$140	) \$131
33 EJKR20	+5.0	+6.4	-2.9	+0.9	+37	+68	+83	+51	+24	+3.7	-6.3	+57	+7.5	-0.7 +	+1.4	+0.9	+1.4 +0	+0.31	. \$109	9 \$111	1 \$103	3 \$110
34 EJKR10	9.9+	+10.5	-6.7	+2.3	+20	+94	+123	+110	+17	+1.3	-3.6	+76 +	+6.3	+ 6.0+	-0.0+	-0.8 +2	+2.7 +0	+0.26 -	. \$131	11 \$119	9 \$142	2 \$127
TACE	<b>CED</b> +1.9	<b>CEM</b> +2.5	<b>GL</b> -4.5	<b>BW</b> +4.2	<b>200</b> +48	<b>400</b> +87	<b>600</b> +114	MCW +98	Milk +17	<b>SS</b> +2.0	DC (	CWT E	<b>EMA</b> +6.0	<b>Rib Ru</b> -0.1 -	Rump R -0.4 +	RBY IN	IMF NI +2.0 +(	<b>NFI-F Doc</b> +0.17 +6	<b>ABI</b> +6 +119	DOM 19 +111	<b>GRN</b> 4126	<b>GRS</b> 6 +115
Cuttile Evaluation																						

# EBV Quick Reference for Coolie Angus Bull Sale

Animal Ident	Calvin	Calving Ease	Birth	ч		Growth	ţ			Fertility				Carcase	Ф			Other		Selec	Selection Indexes	Se
	CED	CEM	Э	BW	200	400	009	MCW	Milk	SS	DC	CWT	EMA	Rib R	Rump	RBY	IMF	NFI-F Doc	c ABI	DOM	M GRN	GRS
35 EJKR53	+3.3	+4.6	-4.5	+4.2	+52	+92	+122	+92	+18	+2.3	-6.7	+63	+2.0	+1.3	+0.8	-0.9	+1.9 +(	+0.22	\$125	5 \$112	2 \$129	\$122
36 EJKR56	+5.9	+6.2	-5.4	+3.7	+20	+94	+127	+124	+15	+3.1	1.4-	09+	+4.9	-1.7	-1.2	+0.7	+2.2 -(	- 09:0-	\$134	14 \$120	0 \$148	\$127
37 EJKR25	-16.1	-12.0	-2.8	+8.3	09+	+104	+135	+118	+16	+3.2	-3.5	+81	+5.4	-2.2	-2.1	+1.8	+1.3	- 60.0	26\$	26\$ 2	5 \$100	96\$
38 EJKR35	4.3	-2.9	-1.6	+6.3	+49	+83	+111	+95	+18	+3.3	-6.2	+62	+8.1	+0.3	. 8.0+	+0.8	+2.2 +(	+0.42	\$119	9 \$107	17 \$128	\$114
39 EJKR31	+11.7	+10.2	-7.1	-0.3	+45	+89	+114	+101	+21	+2.3	-5.3	+58	+5.0	+4.4	+3.3	-1.6	+1.6 +(	+0.28	\$118	8 \$110	0 \$113	\$120
40 EJKR8	-2.6	+0.1	-5.0	+4.2	+52	+95	+117	+115	+12	+1.6	-6.3	69+	+8.5	+0.8	. 9.0+	+0.4	+2.2 +(		\$127	7 \$118	8 \$137	\$121
41 EJKR15	-2.4	+0.3	-4.9	+6.2	+55	+98	+127	66+	+18	+1.6	-5.9	+75	+5.2	+2.2	+1.3	-0.5	+1.6 +(	+0.37	\$121	11 \$111	1 \$122	\$120
42 EJKR16	+8.3	+6.2	-3.4	+1.3	+45	+85	+106	+73	+21	+3.2	-5.9	+61	+8.0	+0.5	-0.2	+1.2 +	+1.5 +(	- 86.0+	\$128	8123	3 \$129	\$126
43 EJKR37	-7.8	-7.8	-5.9	+7.3	+52	+97	+134	+111	+14	+0.6	-0.9	+81	+2.5	-3.3	-3.8	+0.4	+3.0 -(	-0.13	\$108	86\$ 898	3 \$128	\$102
44 EJKR2	+3.0	41.9	-8.1	+3.5	+43	+75	+93	+93	+11	+2.0	-3.8	+55	+5.3	+1.5	. 0.1+	+0.4	+0.5 +(	91.16	\$88	897	7 \$74	\$95
45 EJKR43	+3.3	-1.6	-5.2	+3.2	+42	+80	+100	+85	+14	+2.5	-7.4	+58	+8.2	+2.9	+2.9	+0.3 +	+0.3 +(	+0.10	\$110	0 \$108	86\$ 88	\$114
46 EJKR47	-3.7	+0.5	-3.0	+6.0	+46	+79	497	+97	6+	+0.2	-5.8	+51	+6.9	+2.5	+2.3	-0.7	+1.6 -(	- 90:0-	26\$	96\$ 2	5 \$93	86\$
47 EJKR64	-3.2	+2.6	-8.4	+6.3	+48	+87	+110	+95	+14	+1.7	-6.7	+61	+5.7	+2.6	+2.7	-0.1	+1.0 +	+0.29	\$111	1 \$105	5 \$105	\$112
48 EJKR65	+6.8	+6.1	-7.1	+2.4	+53	96+	+127	+100	+23	+1.9	-4.0	9/+	+2.9	+0.4	-0.3	+ 0.0+	+0.8	-0.28 -	\$115	5 \$112	2 \$108	\$119
49 EJKR67	+7.6	+3.7	-4.5	+1.9	+47	+88	+112	+74	+20	+3.7	-7.9	+73	+5.4	-0.4	+0.8	+ 0.0+	+2.0 +(	+0.26	\$135	5 \$123	3 \$141	\$130
50 EJKR69	+7.1	+3.3	-2.7	+2.8	+48	+91	+113	+85	+21	+5.3	9.7-	+20	+8.3	-1.2	-0.5	+1.7 +	+1.5 +(	+0.24	\$139	9 \$130	0 \$146	\$134
TACE	CED	CEM	GL	BW	200	400	009	MCW	Milk	SS	DC	CWT	EMA	Rib R	3 dunb	RBY	MF N	NFI-F Doc	c ABI	DOM	M GRN	GRS
Transfarmer Angur	+1.9	+2.5	-4.5	+4.2	+48	+87	+114	+98	+17	+2.0	-4.7	+65	+6.0	-0.1	-0.4	+0.5	+2.0 +	+0.17 +	+6 +119	111+ 61	11 +126	+115



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However the vendor makes no representations about the accuracy, reliability or completeness of any information provided in this catalogue and do not assume 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.

Expected average progeny values are provided to assist breeders the estimate outcome of particular mating combinations. These values are not Group Breedplan EBV's and could vary from the expected average values.

#### **COOLIE ANGUS REFERENCE SIRES**

#### **Reference Sire**

#### MUSGRAVE 316 STUNNER PV

**HBR** 

Animal ID: USA18467508 Genetic Conditions: AMF,CAF,DDF,NHF,DWF,MHF,OHF,OSF

S A V FINAL ANSWER 0035" CONNEALY CAPITALIST 028#

PRIDES PITA OF CONANGA 8821"

C A FUTURE DIRECTION 5321#

LD DIXIE ERICA 2053# LD DIXIE ERICA OAR 0853#

M A ESTA 55-252 Sire: USA17666102 LD CAPITALIST 316PV Dam: USA16896985 MCATL BLACKBIRD 831-1378#

CONNEALY REFLECTION\* MCATL BLACKBIRD 1378-573#

MCATL PURE PRODUCT 903-55°V

Mating Type: Natural

CONNEALY FINAL PRODUCTPV

MA BLACKBIRD 573# Mid June 2021 TransTasman Angus Cattle Evaluation Date of Birth: 19/2/16

Angus Breeding

Domestic \$116 Heavy Grain \$113

Heavy Grass \$121

TACE	Calving Ease Direct	Calving Ease Dtrs	Gest Lgth (Days)	Birth Weight (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mature Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (Days)	Carcase Weight (kg)	EMA (sq.cm)	Rib Fat (mm)	Rump Fat (mm)	RBY (%)	IMF (%)
EBV	1.5	6.8	-1.4	3.1	56	104	127	109	17	2.3	-2.8	84	7.2	2.9	1.5	-0.9	1.6
Acc	83%	65%	98%	98%	97%	97%	96%	91%	85%	95%	47%	86%	86%	87%	82%	81%	85%

Traits Observed: Genomics

Statistics: Number of Herds: 79, Prog Analysed: 933, Genomic Prog: 43

#### **Reference Sire** TE MANIA EMPEROR E343 PV HBR Animal ID: VTME343 Genetic Conditions: AMF, CAF, DDF, NHF, MAF, OSF, RGF Date of Birth: 9/8/09 Mating Type: Al SAFFOCUSOFER" O S U 6T6 ULTRA# \$137 Angus Breeding TE MANIA YORKSHIRE Y437PV B T ULTRAVOX 297E# TE MANIA LOWAN U275# FINKS VIXON 788" Domestic \$120 Sire: VTMB1 TE MANIA BERKLEY B1PV Dam: VTMZ74 TE MANIA LOWAN Z74PV Heavy Grain \$154 KENNY'S CREEK SANDY S15sv B/R NEW DESIGN 036# TE MANIA LOWAN Z53" TE MANIA LOWAN V201# Heavy Grass \$128

TE MANIA LOWAN V129# TE MANIA LOWAN R426+96\*

						Wild Juli	6 ZUZ I III	ans rasino	an Angus	Callie E	vaiuation						
TACE	Calving Ease Direct	Calving Ease Dtrs	Gest Lgth (Days)	Birth Weight (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mature Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (Days)	Carcase Weight (kg)	EMA (sq.cm)	Rib Fat (mm)	Rump Fat (mm)	RBY (%)	IMF (%)
EBV	4.9	4.8	-6.7	5.1	52	96	126	124	12	2	-6.8	64	3.7	1.4	-0.2	-0.3	2.4
	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	000/	070/	000/

Traits Observed: GL,CE,BWT,200WT(x2),400WT,SC,Scan(EMA,Rib,Rump,IMF),Structure(Claw Set x 1, Foot Angle x 1),Genomics

Statistics: Number of Herds: 344, Prog Analysed: 8291, Genomic Prog: 1033



#### **COOLIE ANGUS REFERENCE SIRES**

#### **Reference Sire**

Genetic Conditions: AMF,CAF,DDF,NHF,MAF,OHF,OSF,RGF

#### MILLAH MURRAH KLOONEY K42 PV

V D A R NEW TREND 315#

Animal ID: NMMK42

B/R NEW DESIGN 036#

B/R BLACKCAP EMPRESS 76#

Sire: NGMT30 BOOROOMOOKA THEO T030sv

GLENOCH MEGAFORCE+92sv BOOROOMOOKA QUAINT Q34+95#

BOOROOMOOKA GRISELDA\*

TE MANIA BERKLEY B1PV TE MANIA EMPEROR E343PV

TE MANIA LOWAN Z74PV

Dam: NMMH4 MILLAH MURRAH PRUE H4sv

CARRINGTON PARK TIME ON B7PV MILLAH MURRAH PRUE F12PV

MILLAH MURRAH PRUE D85PV

Date of Birth: 30/1/14

Angus Breeding \$128 Domestic \$121 Heavy Grain \$142

Heavy Grass \$120

Mid June 2021 TransTasman Angus Cattle Evaluation
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TACE	Calving Ease Direct	Calving Ease Dtrs	Gest Lgth (Days)	Birth Weight (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mature Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (Days)	Carcase Weight (kg)	EMA (sq.cm)	Rib Fat (mm)	Rump Fat (mm)	RBY (%)	IMF (%)
EBV	7.6	4.1	-6.8	5.7	47	88	109	88	23	2	-6.8	65	6.4	-0.3	-2	8.0	2.3
Acc	93%	81%	99%	99%	98%	98%	98%	96%	95%	98%	72%	94%	93%	94%	92%	90%	91%

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

Statistics: Number of Herds: 129, Prog Analysed: 1771, Genomic Prog: 327

Reference Sire	V	A R DISCOVER	Y 2240 PV	H	<b>HBR</b>
Animal ID: USA17262835	Genetic Conditions: AMF,CAF,DDF,	NHF,MHF,OHF,OSF,RGF	Mating Type: Natural	Date of Birth: 6/3/1	2
S A F F	OCUS OF E R#	COI SITZ UPWARD 307	NNEALY ONWARD#	Angus Breeding	\$164
MYTTY	COUNTESS 906#	SITZ	Z HENRIETTA PRIDE 81M#	Domestic	\$144
Sire: USA15719841 A A R TI	EN X 7008 S A <sup>sv</sup>	Dam: USA16659293 D	EER VALLEY RITA 0308#		
SAVA	DAPTOR 2213#	SS	OBJECTIVE T510 0T26#	Heavy Grain	\$199
A A R LADY KELTON 5	551#	G A R OBJECTIVE	2345#	Heavy Grass	\$148
HSAF	LADY KELTON 504B#	G A	R 1407 NEW DESIGN 2413#	rieavy Grass	ψ140
	Mid Ju	ne 2021 TransTasman Angi	s Cattle Evaluation		

TACE	Calving Ease Direct	Calving Ease Dtrs	Gest Lgth (Days)	Birth Weight (kg)	200 Day Wt. (kg)	400 Day Wt. (kg)	600 Day Wt. (kg)	Mature Cow Wt. (kg)	Milk (kg)	Scrotal Size (cm)	Days to Calving (Days)	Carcase Weight (kg)	EMA (sq.cm)	Rib Fat (mm)	Rump Fat (mm)	RBY (%)	IMF (%)
EBV	-1.1	0.3	-4	3.9	68	132	165	160	23	3.9	-4.3	93	5.9	-1.6	-4	1.2	3.5
Acc	92%	77%	98%	99%	98%	98%	98%	96%	95%	97%	66%	93%	92%	92%	91%	89%	91%

Traits Observed: Genomics

Statistics: Number of Herds: 67, Prog Analysed: 1135, Genomic Prog: 547



#### **COOLIE ANGUS REFERENCE SIRES**

BASIN PAYWEIGHT 1682 PV **HBR** Reference Sire Animal ID: USA17038724 Genetic Conditions: AMF, CAF, DDF, NHF, MAF, RGF Date of Birth: 11/2/11 Mating Type: ET VERMILION DATELINE 7078\* S A V FINAL ANSWER 0035# Angus Breeding \$95 **VERMILION PAYWEIGHT J847**# HARB PENDLETON 765 J HSV VERMILION LASS 7969# HARBBLACK LADY 375 J H# Domestic \$110 Sire: USA15332050 BASIN PAYWEIGHT 006S\* Dam: USA15875998 21AR O LASS 7017# Heavy Grain \$81 C A FUTURE DIRECTION 5321# VDAR LEGEND 1281# BASIN LUCY 3829 21AR O LASS F24A# Heavy Grass \$103 BASIN LUCY 178E 21AR O LASS A24<sup>a</sup> Mid June 2021 TransTasman Angus Cattle Evaluation TACE Calving Calving Gest Birth Mature Days to Carcase Rump 200 Day 600 Day Wt. (kg) ЕМА Rib Fat RBY IMF 400 Day Cow Wt Weight Ease Lgth Weight Calving Fat Wt. (kg) Wt. (ka) (kg) (sq.cm) (mm) (%) (%) Direct Dtrs (Davs) (kg) (kg) (cm) (Davs) (kg) (mm)

EBV 1.1 5.5 -1.1 2.9 58 97 112 74 23 1.6 -1.4 74 3.7 1.3 -0.2 -0.1 1.3 88% 72% 98% 98% 97% 94% 96% 91% 91% 92% 89% Acc 97% 97% 94% 62% 99% 90%

Traits Observed: Genomics

Statistics: Number of Herds: 27, Prog Analysed: 506, Genomic Prog: 92

BEN NEVIS NEXUS N113 SV **Reference Sire** HBR Animal ID: NBNN113 Genetic Conditions: AMFU, CAFU, DDFU, NHFU Date of Birth: 31/7/17 Mating Type: Natural TE MANIA EMPEROR E343PA TE MANIA BARTEL B219PV \$154 Angus Breeding ASCOT HALLMARK H147PV AYRVALE BARTEL E7P MILLAH MURRAH BRENDA F123PV EAGLEHAWK JEDDA B328V Domestic \$133 Sire: QQFL305 ASCOT LION HEART L305PV Dam: NBNJ152 BEN NEVIS JEAN J152# Heavy Grain \$173 DUNOON EVIDENT E614PV TE MANIA INFINITY 04 379 ABI ASCOT H148SV BEN NEVIS GERANIUM G27\* Heavy Grass \$142 MILLAH MURRAH FLOWER F126PV BEN NEVIS GERANIUM E128# Mid June 2021 TransTasman Angus Cattle Evaluation TACE Calving Calving Gest Birth Mature Scrota Days to Carcase Rump 200 Day 400 Day 600 Day Milk EMA Rib Fat RBY IMF Weight (kg) Ease Lath Cow Wt Calving Weight (sq.cm) Wt. (kg) Wt. (kg) Wt. (kg) (kg) (mm) (%) (%) Direct Dtrs (Days) (kg) (cm) (Days) (kg) (mm) EBV 6.5 5.4 -4.1 3.2 53 98 126 95 22 4 -9.1 77 6.2 -1.3 -0.7 0.4 59% 52% 73% 76% 73% 72% 73% 71% 65% 67% 44% 68% 65% 70% 66% 67% 65% Acc

Traits Observed: BWT,200WT(x2),400WT,Scan(EMA,Rib,Rump,IMF),Genomics

Statistics: Number of Herds: 1, Prog Analysed: 10, Genomic Prog: 0

Reference Sire MILLAH MURRAH NEWTON N182 PV **HBR** Animal ID: NMMN182 Genetic Conditions: AMFU, CAFU, DDFU, NHFU Date of Birth: 10/7/17 Mating Type: Al LEACHMAN RIGHT TIMES TE MANIA BERKLEY B1PV Angus Breeding \$108 BT RIGHT TIME 24J# TE MANIA EMPEROR E343PV SITZ EVERELDA ENTENSE 1905 TE MANIA LOWAN Z74PV Domestic \$102 Sire: NMMF226 MILLAH MURRAH RIGHT TIME F226PV Dam: NMML276 MILLAH MURRAH RADO L276PV Heavy Grain \$98 YTHANBRAE HENRY VIII U8SV MILLAH MURRAH DOC F159PV MILLAH MURRAH ARIGAIL Y132<sup>th</sup> MILLAH MURRAH RADO H331SV Heavy Grass \$111 MILLAH MURRAH ABIGAIL S104# MILLAH MURRAH RADO F211PV

Mid June 2021 TransTasman Angus Cattle Evaluation Gest Birth Mature Scrotal Davs to

TACE Calving Calving Carcase Rump 200 Day Wt. (kg) 400 Day 600 Day Milk ΕМΔ Rih Fat RRY IME Cow Wt Lgth Weight (kg) Size (cm) Fat (mm) Wt. (kg) Wt. (kg) (%) (%) (kg) (sq.cm) (mm) (Days) (Davs) (kg) EBV 4.8 4.8 -7.5 43 80 103 92 14 1.3 -7.3 51 4.5 -1.7 1 3.3 4.1 4.2 Acc 59% 51% 84% 75% 66% 65% 66% 64% 59% 59% 41% 61% 57% 62% 59% 60% 57%

Traits Observed: GL,CE,BWT

Statistics: Number of Herds: 1, Prog Analysed: 11, Genomic Prog: 0

COOLIE N141 SV Reference Sire **HBR** Animal ID: E,JKN141 Genetic Conditions: AMF, CAF, DDF, NHFU Date of Birth: 29/8/17 Mating Type: Natural SYDGEN TRUST 6228<sup>t</sup> TE MANIA AMBASSADOR A134SV Angus Breeding SYDGEN BLACK PEARL 2006PG TUWHARETOA REGENT D145PV SYDGEN ANITA 8611# LAWSONS HENRY VIII Y5SV Domestic \$99 Sire: NWPL38 WATTLETOP L38sv Dam: NWPK106 WATTLETOP BARUNAH K106sv Heavy Grain \$129 WATTLETOP FRANKLIN G188sv WATTLETOP RETAIL PRODUCT B216PV WATTLETOP J464sv WATTLETOP BARUNAH D264sv Heavy Grass \$109 WATTLETOP BARUNAH G330 WATTLETOP ZBARUNAH 103 Z103SV Mid June 2021 TransTasman Angus Cattle Evaluation TACE Calving Calving Gest Rirth Scrotal Milk

Mature Cow Wt. Days to Calving 200 Day RBY 400 Day EMA Weight Ease Weight Lgth Size Wt. (kg) Wt. (ka) Wt. (ka) (kg) (sa.cm) (mm) (%) (%) Direct Dtrs (Davs) (kg) (kg) (cm) (Davs) (kg) (mm) EBV -14.7 -6.5 -3.1 8.6 63 106 148 133 17 1.2 -2.4 89 7.7 -3.3 2.3 -2 1.4 59% 51% 62% 63% 61% 63% 64% Acc 70% 79% 71% 69% 71% 69% 42% 65% 67% 61%

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

Statistics: Number of Herds: 1, Prog Analysed: 12, Genomic Prog: 0

## Understanding the TransTasman **Angus Cattle Evaluation (TACE)**



### TransTasman Angus Cattle Evaluation

#### WHAT IS THE TRANSTASMAN ANGUS CATTLE EVALUATION?

The TransTasman Angus Cattle Evaluation (TACE) is the genetic evaluation program adopted by Angus Australia for Angus and Angus infused beef cattle. TACE 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).

TACE 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.

TACE analyses are conducted by the Agricultural Business Research Institute (ABRI), using beef genetic evaluation software developed by the Animal Genetics and Breeding Unit (AGBU), a joint institute of NSW Agriculture and the University of New England, and Meat and Livestock Australia Limited (MLA).

#### 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).

EBVs are expressed as the difference between an individual animal's genetics and a historical genetic level (i.e. group of animals) within the TACE genetic evaluation, and are reported in the units in which the measurements are taken.

#### **USING EBVS TO COMPARE** THE GENETICS OF TWO ANIMALS

TACE 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 EBV reference tables, which provide:

- the breed average EBV
- the percentile bands table

The current breed average EBV is listed on the bottom of each page in this publication, while the current EBV reference tables are included at the end of these introductory notes.

For easy reference, the percentile band in which an animal's EBV ranks is also published in association with the EBV.

#### **CONSIDERING ACCURACY**

An accuracy value is published with each EBV, and 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 TACE EBVS**

EBVs are calculated for a range of traits within TACE, covering calving ease, growth, fertility, maternal performance, carcase merit, feed efficiency and structural soundness. A description of each EBV included in this publication follows.

# Understanding Estimated Breeding Values (EBVs)

#### Birth

**CEDir** | 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.

**CEDtrs | 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.

**GL | 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.

**BW | Birth Weight (kg):** Genetic differences between animals in calf weight at birth. Lower EBVs indicate lighter birth weight.

#### Growth

**200 Day | 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 | 400 Day Weight (kg):** Genetic differences between animals in live weight at 400 days of age. Higher EBVs indicate heavier live weight.

**600 Day | 600 Day Weight (kg):** Genetic differences between animals in live weight at 600 days of age. Higher EBVs indicate heavier live weight.

**MCW | 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 | 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**

**DtC | Days to Calving (days):** 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.

**SS | Scrotal Size (cm):** Genetic differences between animals in scrotal circumference at 400 days of age. Higher EBVs indicate larger scrotal circumference.

#### Carcase

**CWT | Carcase Weight (kg):** Genetic differences between animals in hot standard carcase weight at 750 days of age. Higher EBVs indicate heavier carcase weight.

**EMA | Eye Muscle Area (cm²):** 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 | 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.

**P8 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.



RBY | Retail Beef Yield (%): Genetic differences between animals in boned out saleable meat from a 400 kg carcase. Higher EBVs indicate higher yield.

IMF | 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.

#### Other

NFI-F | 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

**Doc | Docility (%):** Genetic differences between animals in temperament. Higher EBVs indicate better temperament.

#### Structure

feed efficiency.

Feet Angle | Front Feet Angle (%): Genetic differences between animals in desirable front feet angle (strength of pastern, depth of heel). Higher EBVs indicate more desirable structure.

#### Feet Claw Set | 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.

Feet Angle | Rear Feet Angle (%): Genetic differences between animals in desirable rear feet angle (strength of pastern, depth of heel). Higher EBVs indicate more desirable

#### Leg Hind View | Rear Leg Hind View

(%): Genetic differences between animals in desirable rear leg structure when viewed from behind. Higher EBVs indicate more desirable structure.

Leg Side View | 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

#### ABI | 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.

**DOM** | **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.

**HGRN | 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.

HGRS | 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.



**COOLIE DISCOVERY Q134 SV** 

Date of Birth: 28/08/2019 Register: HBR Mating Type: ET

AARTEN X 7008 SASV

SIRE: USA17262835 V A R DISCOVERY 2240 PV

DEER VALLEY RITA 0308 #

TUWHARETOA REGENT D145 PV

WATTLETOP ANN F40 SV

DAM: NWPJ72 WATTLETOP J72 PV

TACE	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
3	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-7.9	-9.4	-4.2	+6.4	+65	+117	+154	+150	+20	+4.1	-5.6	+90	+5.7	-1.0	-2.3	+1.4	+3.1	+0.14	-
Acc	62%	57%	73%	73%	72%	72%	73%	72%	68%	68%	47%	69%	67%	70%	67%	68%	67%	58%	-
Perc	96	gg	55	91	2	2	2	2	22	2	33	2	51	76	90	16	14	46	

Notes: A great bull to start the sale. Discovery son out of a standout Wattletop dam. Huge growth and Marbling

Register: HBR

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$146	9	\$124	16	\$175	5	\$131	16

AMF,CAF,DDF,NHFU

AMF,CAF,DDF,NHFU

Purchaser: .....

Date of Birth: 23/08/2019

Lot 2 **COOLIE KLOONEY Q102 PV** EJKQ102 Mating Type: ET

BOOROOMOOKA THEO T030 SV

SIRE: NMMK42 MILLAH MURRAH KLOONEY K42 PV

MILLAH MURRAH PRUE H4 SV

MATAURI REALITY 839 # DAM: NMMM6 MILLAH MURRAH ELA M6 PV

MILLAH MURRAH ELA K7 SV

TACE	July 202	21 Trans	Tasman	Angus C	attle Ev	aluation											Tra	aits Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+2.3	+2.2	-5.5	+6.5	+51	+92	+116	+109	+20	+3.4	-4.9	+62	+5.5	+2.2	+0.2	-0.1	+1.4	+0.02	-
Acc	62%	57%	73%	74%	73%	72%	73%	71%	68%	69%	50%	70%	68%	72%	69%	69%	68%	61%	-
Perc	52	56	33	92	35	33	46	31	24	6	46	63	55	5	32	75	71	31	-

Notes: A nice bull out of arguably the best cow in the Coolie herd. Consistent figures all around.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$109	71	\$107	65	\$109	73	\$109	68

Purchaser: .....

Date of Birth: 25/08/2019

**COOLIE PAYWEIGHT Q119 PV** EJKQ119 Lot 3 Mating Type: ET

BASIN PAYWEIGHT 006S #

ASCOT HALLMARK H147 PV

SIRE: USA17038724 BASIN PAYWEIGHT 1682 PV DAM: NMML95 MILLAH MURRAH FLOWER L95 SV

21AR O LASS 7017 #

Register: HBR

MILLAH MURRAH FLOWER G16 PV

TACE	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Tra	its Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-2.5	+1.8	-3.3	+5.4	+63	+111	+140	+111	+20	+1.8	-5.0	+83	+3.5	+0.5	-0.7	+0.3	+0.5	+0.09	-
Acc	60%	52%	70%	73%	72%	71%	72%	71%	66%	68%	43%	67%	65%	69%	66%	66%	65%	56%	-
Perc	81	60	70	77	3	3	7	27	27	55	44	5	85	30	57	59	94	40	-

Notes: An extra meaty bull,out of a proven donor cow. Top 10% for 200, 400, 600 & CWT.

		Sel	ection Inc	dexes								
Angus	Angus Breeding Domestic Heavy Grain Heavy Grass											
\$117	57	\$115	41	\$110	72	\$121	38					

Purchaser: ....

COOLIE PAYWEIGHT Q136 PV Lot 4

AMF,CAF,DDF,NHFU Register: HBR Mating Type: ET Date of Birth: 28/08/2019

BASIN PAYWEIGHT 006S #

SIRE: USA17038724 BASIN PAYWEIGHT 1682 PV

21AR O LASS 7017 #

ASCOT HALLMARK H147 PV

DAM: NMML95 MILLAH MURRAH FLOWER L95 SV

MILLAH MURRAH FLOWER G16 PV

	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+2.4	+2.9	-3.7	+3.5	+54	+92	+113	+82	+21	+1.4	-4.6	+74	+2.8	+1.6	+0.0	-0.6	+1.7	+0.46	-
Acc	59%	51%	70%	72%	71%	71%	72%	70%	66%	67%	43%	67%	65%	69%	66%	66%	65%	55%	-
Perc	51	50	64	32	23	32	53	79	20	74	51	18	92	9	37	88	59	83	_

Notes: A flush brother ot Lot 3. Even data set. Suitable for heifers with a bit of extra growth.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$107	74	\$109	60	\$103	78	\$109	68

Lot 5

#### COOLIE DISCOVERY Q122 PV

Date of Birth: 25/08/2019

Register: HBR

Mating Type: ET

A A R TEN X 7008 S A  $^{\mbox{\scriptsize SV}}$ 

SIRE: USA17262835 V A R DISCOVERY 2240 PV

DEER VALLEY RITA 0308 #

MILLAH MURRAH JARDINE J219 SV

DAM: NMMM121 MILLAH MURRAH PRUE M121 SV

MILLAH MURRAH PRUE F141 PV

	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Tra	its Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+1.3	-3.2	-4.9	+3.4	+52	+96	+120	+120	+19	+3.0	-5.7	+66	+4.4	-1.0	-1.0	+1.0	+1.7	+0.02	-
Acc	60%	51%	72%	73%	71%	71%	71%	69%	65%	67%	42%	67%	64%	69%	66%	66%	64%	55%	-
Perc	59	91	43	30	33	23	35	16	31	11	31	46	74	76	65	28	59	31	- 1

Notes: Dam is from one of the strongest family lines at Millah Murrah. Even data set. A bull suitable for heifers but has plenty of growth

			Selection	n Indexes							
Angus Breeding Domestic Heavy Grain Heavy Grass											
\$120	51	\$115	41	\$128	49	\$115	54				

Purchaser: .....

**COOLIE EMPORER Q123 SV EJKQ123** 

Date of Birth: 25/08/2019 Register: HBR Mating Type: ET

AMF,CAF,DDF,NHFU

TE MANIA BERKLEY B1 PV

SIRE: VTME343 TE MANIA EMPEROR E343 PV

TE MANIA LOWAN Z74 PV

WATTI FTOP FRANKI IN G188 SV

DAM: NWPK72 WATTLETOP FRANKLIN G188 K72 SV

WATTLETOP DANDLOO C174 #

	July 202	1 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Tra	its Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.3	+1.1	-6.6	+5.3	+50	+93	+113	+107	+17	+2.9	-6.9	+63	+7.6	+0.7	+1.2	+0.4	+2.0	+0.07	-
Acc	64%	61%	73%	74%	73%	72%	73%	72%	69%	69%	55%	71%	68%	72%	69%	70%	69%	63%	-
Perc	44	66	18	75	41	31	52	34	50	13	15	56	23	25	13	55	46	37	-

Notes: Some of our industries best genentics are in this bull. Flush brother made \$10,000 as a yearling at last

			Selection	n Indexes							
Angus Breeding Domestic Heavy Grain Heavy Grass											
\$130	31	\$122	21	\$139	35	\$124	31				

Purchaser: ......

Lot 7

Lot 6

#### **COOLIE KLOONEY Q85**

EJKQ85

AMF.CAF.DDF.NHFU

Date of Birth: 18/08/2019 Register: HBR Mating Type: ET

MATAURI REALITY 839 #

BOOROOMOOKA THEO T030 SV SIRE: NMMK42 MILLAH MURRAH KLOONEY K42 PV

MILLAH MURRAH PRUE H4 SV

DAM: NMMM6 MILLAH MURRAH ELA M6 PV

MILLAH MURRAH ELA K7 SV

TACE	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+10.0	+7.6	-9.8	+5.1	+52	+93	+113	+94	+17	+2.6	-7.0	+64	+6.0	+2.0	+0.9	+0.0	+1.1	-0.03	-
Acc	62%	57%	73%	74%	72%	72%	73%	71%	68%	69%	50%	70%	68%	72%	69%	69%	68%	61%	-
Perc	5	11	2	71	32	31	52	58	47	21	14	53	46	6	17	71	81	25	-

Notes: Dam is one of our best donors, Klooney needs no introduction. Flush brother made \$12,000 as a yearling at last years sale, selling to Maccas Angus. Has a data set to match his genetics

				Selection	Indexes			
	Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
ĺ	\$123	45	\$120	26	\$120	60	\$123	33

Purchaser: ....

Lot 8

#### **COOLIE KLOONEY Q86**

EJKQ86

Date of Birth: 19/08/2019

Register: HBR

Mating Type: ET

AMF,CAF,DDF,NHFU

BOOROOMOOKA THEO T030  $^{\rm SV}$ 

MILLAH MURRAH PRUE H4 SV

SIRE: NMMK42 MILLAH MURRAH KLOONEY K42 PV

MATAURI REALITY 839 #

DAM: NMMM6 MILLAH MURRAH ELA M6 PV

MILLAH MURRAH ELA K7 SV

	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
35	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+12.4	+6.2	-6.4	+3.2	+43	+83	+98	+72	+22	+2.5	-5.1	+57	+5.5	+1.0	+0.1	+0.0	+1.4	+0.38	-
Acc	62%	57%	73%	73%	72%	72%	72%	71%	67%	68%	49%	69%	67%	71%	68%	68%	67%	61%	-
Perc	1	20	21	25	78	66	83	90	14	25	42	78	55	18	35	71	71	76	-

Notes: Flush brother to Lot 7. Top 15% for milk with positive fats. Suitable for heifers.

				Selection	Indexes			
	Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
Ī	\$106	75	\$110	57	\$101	80	\$107	72

**COOLIE Q155 SV** 

Date of Birth: 02/08/2019 Register: APR Mating Type: Natural

BOOROOMOOKA THEO T030 SV SIRE: EJKM182 COOLIE M182 PV

MILLAH MURRAH BRENDA J23 SV

TE MANIA EMPEROR E343 PV

DAM: EJKH4 COOLIE HARAH H4#

COOLIE A011 #

	July 202	21 Trans	Tasman	Angus C	attle Ev	aluation												its Observed	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+0.6	+3.3	-6.2	+4.9	+44	+82	+108	+111	+11	+2.1	-5.1	+64	+4.9	+0.9	-0.5	+0.5	+2.2	+0.15	-
Acc	52%	48%	67%	67%	65%	65%	66%	64%	59%	59%	42%	62%	59%	65%	61%	62%	60%	52%	-
Perc	64	46	23	66	77	68	66	27	91	41	42	55	66	20	51	50	39	47	- 1

**Notes:** Great genetics package here. By a the impressive Theo son and out of a very good Emporer dam. Positive fats with good IMF.

			Selection	ı Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$117	57	\$108	63	\$129	48	\$111	64

Purchaser: ......

Lot 10 **COOLIE Q151 SV EJKQ151** 

AMF,CAF,DDF,NHFU Date of Birth: 31/07/2019 Register: APR Mating Type: Natural

BOOROOMOOKA THEO T030 SV SIRE: EJKM182 COOLIE M182 PV

MILLAH MURRAH BRENDA J23 SV

TE MANIA EMPEROR E343 PV DAM: EJKH23 COOLIE HELENA H23 #

LANDFALL Y585 #

	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
35	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-2.9	-1.0	-3.6	+5.8	+42	+79	+104	+97	+17	+3.5	-4.9	+55	+9.3	+0.1	-0.3	+1.7	+1.4	+0.06	-
Acc	53%	50%	68%	68%	67%	67%	68%	66%	61%	61%	44%	64%	61%	67%	63%	64%	62%	54%	-
Perc	82	81	65	84	83	78	74	52	48	5	46	84	10	42	46	10	71	36	-

Notes: Another bull by our good Theo son out of an Emporer dam. Top 10% for EMA, RBY, and SS, with

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$111	68	\$105	71	\$114	67	\$108	70

Purchaser: ......

**COOLIE HICKOK Q139 Lot 11** 

CONNEALY CONSENSUS 7229 SV

Date of Birth: 30/08/2019

SIRE: USA17351674 MILL BAR HICKOK 7242 PV

Register: HBR

TUWHARETOA REGENT D145 PV

DAM: NWPK204 WATTLETOP ANN K204 PV

WATTLETOP ANN F45 SV MILL BAR BEMINDFUL MAID 6304 #

TACE	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Tra	aits Observed	d: Genomic:
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+4.8	+0.1	-4.2	+3.6	+49	+86	+108	+92	+14	+1.7	-4.2	+66	+7.1	-1.7	-3.1	+1.9	+2.4	+0.26	-
Acc	53%	49%	65%	70%	68%	68%	69%	67%	64%	63%	42%	65%	62%	67%	63%	64%	63%	54%	-
Perc	32	74	55	34	49	53	64	63	77	60	59	48	29	90	96	7	32	62	-

Mating Type: ET

Notes: Sired by Hickok, who has been one of the most used bulls in the USA. Out of a very good Wattletop

Register: APR

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$126	39	\$122	21	\$140	34	\$119	44

Purchaser:

**COOLIE DISCOVERY Q63 SV** Lot 12 EJKQ63

A A R TEN X 7008 S A  $^{\mbox{\scriptsize SV}}$ 

Date of Birth: 13/07/2019

Mating Type: Al

AMF,CAF,DDF,NHFU

**EJKQ139** AMF.CAF.DDF.NHFU

SIRE: USA17262835 V A R DISCOVERY 2240 PV

DAM: EJKM91 COOLIE M91 M91 #

DEER VALLEY RITA 0308 #

COOLIE JENNA J38 #

COONAMBLE ELEVATOR E11 PV

	July 202	21 Trans	Tasman	Angus C	attle Ev	aluation											Traits C	bserved: Gl	L, Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-8.7	-0.9	-6.3	+6.1	+63	+118	+161	+173	+19	+2.9	-0.2	+83	+5.4	-2.3	-4.0	+2.4	+1.2	-0.16	-
Acc	61%	53%	82%	73%	72%	71%	72%	70%	67%	67%	45%	68%	66%	70%	67%	67%	66%	57%	-
Perc	97	80	22	88	3	1	1	1	28	13	97	5	57	96	99	3	78	14	-

Notes: Discovery son who is top 10% for all growth and carcase traits.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$119	53	\$111	54	\$131	45	\$118	46

**COOLIE KATAPULT Q59 SV Lot 13** 

Register: HBR Date of Birth: 12/07/2019 Mating Type: Al

S A V THUNDERBIRD 9061 SV

SIRE: CXBK1 PRIME KATAPAULT K1 SV

PRIME JEDDA H81 #

EF COMMANDO 1366 PV

DAM: NMMN362 MILLAH MURRAH PRUE N362 PV

MILLAH MURRAH PRUE K79 SV

	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Traits (	Observed: G	L, Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+8.4	+3.1	-6.1	+2.1	+52	+92	+116	+93	+22	+2.2	-3.6	+60	+9.2	+0.3	-1.2	+1.0	+1.9	+0.21	-
Acc	57%	49%	83%	72%	71%	71%	71%	68%	64%	67%	40%	66%	63%	68%	65%	65%	63%	54%	-
Perc	10	48	25	9	31	33	45	61	13	37	69	70	10	36	70	28	50	55	- 1

Notes: Impressive Katapult son with a strong set of numbers across the board. Suitable for heifers.

			Selection	n Indexes						
Angus Breeding Domestic Heavy Grain Heavy Grass										
\$124	43	\$121	23	\$128	49	\$123	33			

Purchaser: ......

**COOLIE CAPITALIST Q106 PV** Lot 14 Register: HBR

EJKQ106 AMF,CAF,DDF,NHFU

CONNEALY CAPITALIST 028 #

Date of Birth: 23/08/2019

SIRE: USA17666102 LD CAPITALIST 316 PV

LD DIXIE ERICA 2053 #

MILLAH MURRAH EVIDENT H105 SV DAM: NMMK79 MILLAH MURRAH PRUE K79 SV

MILLAH MURRAH PRUE G89 PV

	July 202	1 Trans	Гаѕтап	Angus (	attle Ev	aluation												its Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+2.8	+6.2	-5.1	+4.1	+47	+86	+106	+108	+11	+1.2	-4.1	+69	+8.6	-0.5	-1.1	+1.3	+1.4	+0.25	-
Acc	62%	53%	73%	75%	74%	73%	74%	72%	68%	71%	41%	69%	67%	71%	67%	67%	66%	57%	-
Perc	48	20	40	46	57	55	68	32	90	81	60	34	14	62	68	18	71	61	-

Mating Type: ET

**Notes:** The only Capitalist son in the sale, out of a Millah Murrah dam who has progeny in 11 stud herds. Flush brother sold for \$11,000 as a yearling at last years sale. Balanced data and suitable for heifers.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$115	61	\$115	41	\$118	63	\$114	57

Purchaser: ......

Date of Birth: 01/08/2019

**COOLIE LUCRATIVE Q153** Lot 15

Register: HBR

AMF.CAF.DDF.NH21%

AYRVALE BARTEL E7 PV

SIRE: NBNL64 BEN NEVIS LUCRATIVE L64 SV

BEN NEVIS GERANIUM J117#

EF COMPLEMENT 8088 PV

DAM: EJKL160 COOLIE ELA L160 # MILLAH MURRAH ELA H66 SV

	July 202	1 Trans	Tasman	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+6.7	+9.8	-6.0	+4.3	+57	+103	+129	+104	+19	+2.9	-7.6	+70	+4.7	-0.1	+1.5	+0.2	+2.5	-0.02	-
Acc	55%	51%	65%	70%	68%	68%	69%	67%	61%	63%	42%	64%	61%	67%	63%	64%	61%	54%	-
Perc	19	3	26	52	12	10	18	39	34	13	9	30	69	49	9	64	29	26	-

Mating Type: Natural

Notes: The only Ben Nevis Lucrative son in the sale, out of a very good Complement dam. Super impressive

			Selection	imuexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$155	4	\$138	2	\$170	7	\$146	2

Purchaser: .....

**COOLIE GENERATION Q108 PV** Lot 16

EJKQ108 AMF,CAF,DDF,NHFU

Register: HBR Date of Birth: 23/08/2019 Mating Type: ET CONNEALY CONSENSUS 7229 SV TUWHARETOA REGENT D145 PV

SIRE: USA17171587 V A R GENERATION 2100 PV

DAM: NWPJ165 WATTLETOP J165 SV

SANDPOINT BLACKBIRD 8809 #

WATTLETOP GILDA D11 #

	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-2.7	-1.7	-3.6	+5.6	+58	+105	+133	+126	+15	+1.6	-3.9	+73	+7.6	-0.9	-0.6	+1.6	+2.4	-0.16	-
Acc	63%	58%	73%	73%	72%	72%	73%	72%	68%	69%	49%	69%	67%	71%	68%	68%	67%	59%	-
Perc	82	85	65	80	10	7	13	11	66	65	64	21	23	74	54	11	32	14	-

Notes: By Generation out of a very good Wattletop donor cow. Top 10% for 200, 400, 600. Top 20% for all

l		
	I	
U 0.1		

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$138	18	\$127	11	\$154	18	\$131	16

**COOLIE KLOONEY Q92 PV** FJKQ92

AMF,CAF,DDF,NHFU Date of Birth: 21/08/2019 Register: HBR Mating Type: ET

BOOROOMOOKA THEO T030 SV

SIRE: NMMK42 MILLAH MURRAH KLOONEY K42 PV

MILLAH MURRAH PRUE H4 SV

MATAURI REALITY 839 #

DAM: NMMM6 MILLAH MURRAH ELA M6 PV

MATAURI REALITY 839 #

MILLAH MURRAH ELA K7 SV

	July 202	1 Trans	Гаѕтап	Angus C	attle Ev	aluation												aits Observe	d: Genomics
35	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+11.3	+9.2	-5.9	+2.7	+42	+81	+99	+89	+21	+2.8	-6.5	+55	+5.7	+2.9	+0.6	-0.4	+1.1	+0.47	-
Acc	63%	58%	74%	74%	73%	73%	74%	72%	68%	70%	50%	70%	68%	72%	69%	70%	68%	62%	-
Perc	2	4	27	17	82	73	82	68	19	16	20	83	51	2	23	84	81	84	- 1

Notes: Another Klooney x Reality bull. Positive fats, top 10% for CE DIR and CE DTRS. Suitable for heifers.

	Selection Indexes													
Angus E	Breeding	Grain	Heavy	Grass										
\$106	<b>\$106</b> 75		65	\$101	80	\$107	72							

Purchaser: ......

**Lot 18 COOLIE KLOONEY Q93** EJKQ93

AMF,CAF,DDF,NHFU Date of Birth: 21/08/2019 Register: HBR Mating Type: ET

BOOROOMOOKA THEO T030 SV

SIRE: NMMK42 MILLAH MURRAH KLOONEY K42 PV DAM: NMMM6 MILLAH MURRAH ELA M6 PV

MILLAH MURRAH PRUE H4 SV MILLAH MURRAH ELA K7 SV

TACE July 2021 TransTasman Angus Cattle Evaluation CEDtrs GL 200 400 600 MCW Milk SS DTC CWT EMA Rib P8 RBY IMF NFI-F Doc **EBV** +11.3 +9.2 -5.9 +2.7 +42 +81 +99 +89 +21 +2.8 -6.5 +55 +5.7 +2.9 +0.6 -0.4 +1.1 +0.47 63% 58% 74% 74% 73% 73% 74% 72% 68% 70% 50% 70% 68% 72% 69% 70% 68% 62% 4 27 17 82 68 20 83 51

Notes: A twin to Lot 17, with almost identical EBV's, Suitable for heifers,

	Selection Indexes													
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy Grass								
\$106	75	\$107	65	\$101	80	\$107	72							

Purchaser: .....

**COOLIE PAYWEIGHT Q87 Lot 19** EJKQ87

AMF,CAF,DDF.NHFU Date of Birth: 19/08/2019 Register: HBR Mating Type:

BASIN PAYWEIGHT 006S #

SIRE: USA17038724 BASIN PAYWEIGHT 1682 PV

21AR O LASS 7017 #

BOOROOMOOKA THEO T030 SV DAM: NMML26 MILLAH MURRAH BRENDA L26 PV

MILLAH MURRAH BRENDA J37 SV

TACE	July 202	21 Trans	Tasman	Angus C	attle Ev	aluation											Tra	aits Observed	d: Genomic:
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	ss	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.5	+7.4	-2.2	+2.2	+51	+93	+113	+80	+16	+1.8	-5.4	+73	+2.6	+1.6	+1.0	-0.8	+1.5	-0.02	-
Acc	60%	53%	73%	73%	72%	72%	73%	71%	67%	68%	46%	68%	66%	70%	67%	67%	66%	56%	-
Perc	27	12	85	10	38	32	54	82	56	55	37	21	93	9	15	92	67	26	-

Notes: Payweight son out of a very good Theo daughter we purchased from Millah Murrah. Top 10% for BW

or BW	
	Angus Br

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$117	57	\$116	37	\$112	70	\$118	46

Purchaser:

Lot 20 COOLIE PAYWIEGHT Q88 PV EJKQ88

AMF,CAF,DDF,NHFU Date of Birth: 19/08/2019 Register: HBR Mating Type: ET

BASIN PAYWEIGHT 006S #

BOOROOMOOKA THEO T030  $^{\rm SV}$ DAM: NMML26 MILLAH MURRAH BRENDA L26 PV SIRE: USA17038724 BASIN PAYWEIGHT 1682 PV

MILLAH MURRAH BRENDA J37 SV 21AR O LASS 7017 #

	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	ss	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.5	+7.4	-2.2	+2.2	+51	+93	+113	+80	+16	+1.8	-5.4	+73	+2.6	+1.6	+1.0	-0.8	+1.5	-0.02	-
Acc	60%	53%	73%	73%	72%	72%	73%	71%	67%	68%	46%	68%	66%	70%	67%	67%	66%	56%	-
Perc	27	12	85	10	38	32	54	82	56	55	37	21	93	9	15	92	67	26	

Notes: A twin to Lot 19. Top 10% for BW with good growth and fats. Suitable for Heifers.

	Selection Indexes  Angus Breeding Domestic Heavy Grain Heavy Grass													
	Angus Breeding Domestic Heavy Grain Heavy Grass													
I	\$117	57	\$116	37	\$112	70	\$118	46						

**COOLIE WILLIAM Q42 SV** Lot 21

Date of Birth: 07/07/2019 Register: APR Mating Type: Al

BRAVEHEART OF STERN SV

SIRE: NZE12170013298 WILLIAM OF STERN SV

STERN 8819 #

HIDDEN VALLEY TIMEOUT A45 SV

DAM: EJKH97 COOLIE H97 #

CHISHOLM E193#

	July 202	1 Trans	Гаѕтап	Angus C	attle Ev	aluation											Traits (	Observed: G	L, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+1.4	+1.8	-7.0	+4.2	+40	+79	+112	+91	+15	+2.3	-2.8	+48	+2.6	-0.4	-0.5	+0.9	+0.6	-0.20	-
Acc	58%	52%	83%	72%	71%	71%	72%	70%	65%	67%	45%	67%	64%	69%	66%	66%	64%	55%	-
Perc	58	60	15	49	89	77	55	64	66	32	81	94	93	59	51	32	93	11	-

Notes: A Stern William son who is a soft doing bull. Suitable for Heifers.

			Selection	Indexes							
Angus Breeding Domestic Heavy Grain Heavy Grass											
\$101	81	\$98	85	\$96	84	\$105	76				

Purchaser: .....

**COOLIE EMPORER Q62 SV Lot 22** 

Register: APR

EJKQ62

TE MANIA BERKLEY B1 PV

Date of Birth: 13/07/2019

Mating Type: Al

AMF,CAF,DDF,NHFU

SIRE: VTME343 TE MANIA EMPEROR E343 PV

MILLAH MURRAH HIGHLANDER G18 SV

DAM: EJKL18 COOLIE L18 #

TE MANIA LOWAN Z74 PV COOLIE H135 #

TACE	July 202	21 Trans	Гаѕтап	Angus (	Cattle Ev	aluation												Observed: G	L, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-0.1	+1.3	-5.7	+4.5	+46	+85	+110	+103	+15	+4.4	-4.4	+59	+6.0	+0.3	+0.7	+1.8	+0.5	+0.34	-
Acc	63%	60%	84%	74%	72%	72%	73%	72%	68%	68%	55%	71%	69%	73%	70%	71%	69%	64%	-
Perc	68	64	30	57	65	59	60	41	63	1	55	73	46	36	21	8	94	72	-

 $\textbf{Notes:} \ \mathsf{Emporer} \ \mathsf{son} \ \mathsf{who} \ \mathsf{is} \ \mathsf{top} \ \mathsf{10\%} \ \mathsf{for} \ \mathsf{SS} \ \mathsf{and} \ \mathsf{RBY} \ \mathsf{with} \ \mathsf{postive} \ \mathsf{fats.} \ \mathsf{Suitable} \ \mathsf{for} \ \mathsf{Heifers}.$ 

			Selection	Indexes									
Angus Breeding Domestic Heavy Grain Heavy Grass													
\$110	69	\$110	57	\$104	77	\$112	62						

Purchaser: ......

**COOLIE Q149** Lot 23

Date of Birth: 29/07/2019 Register: APR Mating Type: Natural

AMF.CAF.DDF.NHFU

BOOROOMOOKA THEO T030 SV

SIRE: EJKM182 COOLIE M182 PV

MILLAH MURRAH BRENDA J23 SV

TE MANIA EMPEROR E343 PV DAM: EJKH15 COOLIE HELGA H15#

COOLIE A160 #

	July 202	1 Trans	Гаѕтап	Angus (	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+4.1	+2.8	-2.8	+2.9	+34	+62	+77	+70	+11	+1.6	-5.0	+43	+5.1	+1.4	-0.9	+0.2	+1.1	+0.00	-
Acc	54%	51%	69%	70%	68%	68%	69%	67%	62%	63%	45%	66%	62%	68%	64%	66%	63%	56%	-
Perc	38	51	77	20	98	98	98	92	92	65	44	98	62	12	62	64	81	28	-

Notes: By the Theo son, moderatley framed with top 15% for BW. Suitable for Heifers.

			Selection	Indexes							
Angus Breeding Domestic Heavy Grain Heavy Grass											
\$83	94	\$91	93	\$76	94	\$86	95				

Purchaser: .....

**COOLIE NEXUS Q156 SV** EJKQ156 Lot 24

Date of Birth: 03/08/2019 Register: APR Mating Type: Natural AMF,CAF,DDF,NH6%

ASCOT LION HEART L305 PV SIRE: NBNN113 BEN NEVIS NEXUS N113 SV

COOLIE K1 SV DAM: EJKM130 COOLIE M130 M130 #

BEN NEVIS JEAN J152 # COOLIE H118#

	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Tra	aits Observed	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.2	+0.6	-4.2	+3.8	+45	+80	+107	+61	+24	+2.0	-5.5	+60	+4.7	-0.8	+0.6	-0.1	+2.0	+0.41	-
Acc	48%	43%	64%	68%	66%	66%	66%	64%	57%	59%	34%	61%	58%	65%	60%	61%	58%	49%	-
Perc	45	70	55	39	71	73	67	96	5	46	35	68	69	71	23	75	46	79	-

Notes: By Ben Nevis Nexus, a younger bull with top 5% for milk. Suitable for Heifers.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$117	57	\$108	63	\$118	63	\$115	54

Lot 25 **COOLIE Q169 SV EJKQ169** 

AMF,CAC,DDF,NHFU Date of Birth: 30/08/2019 Register: HBR Mating Type: Natural

MILLAH MURRAH HIGHLANDER G18 SV

SIRE: EJKM50 COOLIE M50 SV

COOLIE A276 #

ARDROSSAN DIRECTION Z24 SV

ARDROSSAN WILCOOLA Y62 #

DAM: EJKD025 COOLIE D025 #

TACE	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.1	+2.6	-5.1	+4.7	+39	+75	+100	+99	+13	+2.0	-4.0	+61	+4.5	-2.1	-2.4	+1.3	+1.4	+0.13	-
Acc	49%	43%	69%	68%	66%	65%	66%	64%	57%	58%	37%	62%	58%	65%	60%	61%	58%	50%	-
Perc	45	53	40	61	92	87	81	49	82	46	62	65	72	94	91	18	71	45	-

Notes: By the Highlander son out of a very consistent producing dam for us over many years.

				Selection	ı Indexes			
	Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
ĺ	\$103	79	\$102	77	\$108	74	\$101	82

Purchaser: ......

**COOLIE Q160 SV** Lot 26

**EJKQ160** 

AMF,CAF,DDF,NHFU Date of Birth: 10/08/2019 Mating Type: Natural Register: APR

MILLAH MURRAH HIGHLANDER G18 SV

SIRE: EJKM50 COOLIE M50 SV

COOLIE A276 #

TUWHARETOA REGENT D145 PV

DAM: EJKG150 COOLIE G150 #

CHISHOLM E182 #

	July 202	?1 Trans⊺	Tasman	Angus C	Cattle Ev	aluation											Tra	aits Observe	d: Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-5.9	-8.9	-2.4	+6.0	+41	+77	+107	+117	+14	+1.9	-4.5	+64	+1.9	-1.4	-1.0	+0.8	+1.1	+0.25	-
Acc	52%	47%	69%	69%	67%	67%	68%	66%	60%	60%	41%	64%	61%	67%	63%	64%	61%	53%	-
Perc	92	99	82	86	86	83	66	20	71	51	53	53	96	85	65	36	81	61	-

Notes: Another younger son of Highlander M50 out of a very good regent cow who has had two sons top our

ı				Selection	n Indexes			
	Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
	\$85	93	\$83	97	\$87	89	\$85	96



**LOT 4: Q136** 



**LOT 13: Q59** 



**LOT 14: Q106** 



**LOT 15: Q153** 

Lot 27

#### **COOLIE FRANNKLIN R51 SV**

Date of Birth: 27/03/2020

Register: APR

Mating Type: Natural

AMF,CAF,DDF,NHF

WATTLETOP FRANKLIN G188 SV

SIRE: EJKN37 COOLIE N37 SV WATTLETOP ANN G183 PV

TE MANIA EMPEROR E343 PV DAM: EJKH1 COOLIE H1#

COOLIE A078 #

TACE	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-3.7	+3.9	-4.8	+6.4	+63	+116	+155	+153	+15	+4.0	-6.6	+88	+2.1	-0.6	-1.7	-0.2	+2.6	-0.39	-
Acc	53%	49%	70%	68%	67%	66%	68%	66%	60%	61%	41%	64%	61%	67%	62%	64%	61%	54%	-
Perc	86	40	45	91	3	2	2	2	67	2	19	2	96	65	81	78	26	4	-

**Notes:** A half brother to 2018 top priced bull M102, from one of our favourite Emporer cows. Excellent EBV's top 5% 200, 400, 600, MCW and CWT. Super thick ,deep young bull that has been a stand out from day one.

	Selection Indexes  Angus Breeding Domestic Heavy Grain Heavy Grass												
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass						
\$145	10	\$122	21	\$169	8	\$133	13						

Purchaser: ......

Lot 28 Date of Birth: 11/03/2020 **COOLIE LEUPOLD R27 SV** 

EJKR27

Register: APR Mating Type: Al AMF,CAF,DDF,NHF

A A R LEUPOLD 0578 #

SIRE: USA17228402 GDAR LEUPOLD 298 #

GDAR MISS BLACKCAP 9232 #

RAFF HOSS E71 SV

DAM: EJKH27 COOLIE HEBE H27 #

HAZELDEAN W958 #

TACE	July 202	21 Trans	Гаѕтап	Angus C	attle Ev	aluation										Т	raits Observ	ed: GL, BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.8	+4.8	-3.0	+2.7	+46	+88	+111	+99	+19	+1.1	-0.9	+59	+2.3	+0.6	+0.7	+0.1	+0.7	-0.01	-
Acc	50%	41%	83%	72%	69%	69%	70%	67%	60%	64%	35%	64%	61%	66%	62%	63%	61%	49%	-
Perc	25	32	75	17	62	46	57	50	34	84	95	71	95	28	21	68	91	27	-

Notes: Heavist autumn bull in the sale. Positve fats and is suitable for Heifers.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$93	89	\$103	75	\$81	92	\$102	81





**LOT 28: R27** 



**LOT 29: R28** 



**LOT 30: R29** 



**LOT 34: R10** 

**COOLIE WATTLETOP R28 SV Lot 29** 

Date of Birth: 12/03/2020 Register: APR Mating Type: Al

WATTLETOP L38 SV

SIRE: EJKN141 COOLIE N141 SV

WATTLETOP BARUNAH K106 SV

TC STOCKMAN 2164 #

DAM: EJKJ88 COOLIE J88 #

CHISHOL	М	F155	#

	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation												served: BW	T, Genomics
33	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-5.5	+4.3	-7.4	+5.6	+55	+95	+123	+125	+10	+0.3	-3.5	+79	+6.2	+0.0	+0.5	-0.2	+2.0	-0.17	-
Acc	51%	46%	64%	68%	66%	66%	67%	65%	59%	60%	39%	62%	59%	65%	61%	62%	60%	51%	-
Perc	91	36	11	80	18	24	29	12	94	97	71	10	43	46	25	78	46	13	-

Notes: A stylish young bull. Top 10% for CWT, Milk and GL.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$111	68	\$104	73	\$115	66	\$109	68

Purchaser: .....

Register: APR

Lot 30 **COOLIE WATTLETOP R29 SV** EJKR29 Mating Type: AI

WATTLETOP L38 SV

Date of Birth: 13/03/2020

SIRE: EJKN141 COOLIE N141 SV

WATTLETOP BARUNAH K106 SV

HIDDEN VALLEY TIMEOUT A45 SV

DAM: EJKH110 COOLIE H110 #

CHISHOLM E243 #

TACE	July 202	1 Trans	Гаѕтап	Angus C	attle Ev	aluation											Traits Ob	served: BW	Γ, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-7.4	-6.2	-4.3	+7.7	+63	+111	+153	+140	+16	+2.4	-2.4	+80	+1.6	-2.3	-2.0	+0.3	+2.5	-0.23	-
Acc	51%	46%	66%	68%	66%	66%	67%	65%	59%	60%	37%	63%	59%	65%	61%	63%	60%	51%	-
Perc	95	97	53	98	3	3	2	4	57	28	86	7	97	96	86	59	29	10	-

Notes: Another Coolie N141 son with a solid data set. Top 10% for 200, 400, 600, MCW and CWT.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$122	47	\$107	65	\$139	35	\$116	52

Purchaser: ...

**COOLIE NEWTON R55 SV Lot 31** EJKR55

Date of Birth: 30/03/2020 Register: APR Mating Type: Natural

AMF.CAF.DDF.NHF

AMF,CAF,DDF,NHF

MILLAH MURRAH RIGHT TIME F226 PV

SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV

MILLAH MURRAH RADO L276 PV

V A R INDEX 3282 PV DAM: EJKN26 COOLIE N26 #

COOLIE L56 #

	July 202	1 Trans	Гаѕтап	Angus C	attle Ev	aluation											Traits Ob	served: BW	T, Genomics
3	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.4	+3.7	-6.2	+4.1	+40	+71	+89	+75	+10	+1.2	-4.9	+48	+9.2	+3.3	+2.3	+0.2	+1.0	+0.07	-
Acc	49%	43%	68%	66%	63%	63%	64%	62%	56%	57%	34%	59%	56%	62%	57%	59%	56%	47%	-
Perc	28	42	23	46	88	93	94	88	95	81	46	95	10	1	4	64	84	37	- 1

Notes: A stylish son of Millah Murrah Newton N182. Top 10% for Rib and Rump, and IMA. Suitable for

Heifers

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$104	78	\$105	71	\$94	85	\$108	70

Purchaser: ...

EJKR23 **COOLIE COMPLEMENT R23** Lot 32

Register: HBR Date of Birth: 09/03/2020

Mating Type: AI

AMF,CAF,DDF,NHF

BASIN FRANCHISE P142# SIRE: USA16198796 EF COMPLEMENT 8088 PV

MILLAH MURRAH KLOONEY K42 PV DAM: EJKM186 COOLIE ABIGAIL M186 PV

EF EVERELDA ENTENSE 6117 #

MILLAH MURRAH ABIGAIL J210 SV

TACE	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											raits Observ	/ed: GL, BW	
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+8.0	+11.1	-3.7	+2.8	+44	+85	+103	+78	+22	-0.1	-8.0	+66	+10.5	+0.0	-0.1	+1.1	+1.5	+0.49	-
Acc	64%	59%	82%	73%	72%	72%	73%	71%	68%	69%	51%	70%	68%	71%	69%	69%	68%	62%	-
Perc	12	1	64	18	74	60	77	85	15	99	6	46	5	46	40	25	67	85	-

**Notes:** A Complement son from a Klooney ET daughter. Solid figures - top 10% EMA, DTC, CE DTRS. Top 20% for all Indexes. Suitable for Heifers.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$136	21	\$128	10	\$140	34	\$131	16

Lot 33

#### **COOLIE HIGHLANDER R20 SV**

Date of Birth: 09/03/2020

Register: HBR

Mating Type: Al

HIGHLANDER OF STERN AB #

SIRE: NMMG18 MILLAH MURRAH HIGHLANDER G18 SV

MILLAH MURRAH PRUE D85 PV

NICHOLS EXTRA K205 #

DAM: NWPF33 WATTLETOP USUAL F33 SV

WATTLETOP USUAL D245 #

TACE	July 202	21 Trans	<b>Fasman</b>	Angus C	attle Ev	aluation										Т	raits Observ	ed: GL, BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.0	+6.4	-2.9	+0.9	+37	+68	+83	+51	+24	+3.7	-6.3	+57	+7.5	-0.7	+1.4	+0.9	+1.4	+0.31	-
Acc	57%	50%	83%	73%	71%	70%	71%	70%	64%	66%	45%	68%	65%	70%	67%	66%	65%	59%	-
Perc	31	19	76	3	94	95	96	99	6	3	23	78	24	68	10	32	71	68	-

**Notes:** One of the lowest birth weights in the sale at + 0.9. By Highlander G18 from a Nichols Extra cow purchased from Wattle top. Top 5% for BWt, Milk and SS. Suitable for Heifers.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$109	71	\$111	54	\$103	78	\$110	66

Purchaser: ......

**Lot 34** 

#### **COOLIE STUNNER R10 SV**

EJKR10

Date of Birth: 05/03/2020

Register: HBR Mating Type: AI AMF,CAF,DDF,NHF

LD CAPITALIST 316 PV

EF COMPLEMENT 8088 PV

DAM: EJKL154 COOLIE FLOWER L154 #

MCATL BLACKBIRD 831-1378 #

SIRE: USA18467508 MUSGRAVE 316 STUNNER PV

MILLAH MURRAH FLOWER G43 PV

TACE	July 202	?1 Trans	Tasman	Angus C	Cattle Ev	aluation											raits Observ	red: GL, BW⁻	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+6.6	+10.5	-6.7	+2.3	+50	+94	+123	+110	+17	+1.3	-3.6	+76	+6.3	+0.9	+0.6	-0.8	+2.7	+0.26	-
Acc	60%	52%	83%	74%	73%	72%	73%	71%	66%	69%	40%	68%	66%	70%	66%	67%	66%	55%	-
Perc	20	2	18	11	43	28	28	29	48	77	69	14	41	20	23	92	23	62	-

Notes: Thick as a brick son of Stunner from a Complement x Infinty ET Cow. Even data set. Suitable for

Register: HBR

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$131	29	\$119	29	\$142	31	\$127	24

Purchaser: ...

Lot 35

#### **COOLIE FRANKLIN R53 SV**

EJKR53

AMF.CAF.DDC.NHF

WATTLETOP FRANKLIN G188 SV

Mating Type: Natural

ASCOT HALLMARK H147 PV

MILLAH MURRAH FLOWER G24 PV

SIRE: EJKN37 COOLIE N37 SV

DAM: EJKL153 COOLIE FLOWER L153 #

WATTLETOP ANN G183 PV

Date of Birth: 27/03/2020

	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation												served: BW1	Γ, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.3	+4.6	-4.5	+4.2	+52	+92	+122	+92	+18	+2.3	-6.7	+63	+2.0	+1.3	+0.8	-0.9	+1.9	+0.22	-
Acc	53%	48%	67%	67%	66%	66%	67%	65%	60%	61%	38%	63%	60%	66%	62%	63%	60%	53%	-
Perc	44	34	50	49	31	34	30	63	36	32	17	60	96	13	19	93	50	57	- 1

Notes: Half brother to 2020 top priced bull Q5. Dam is an ET Hallmark daughter who has been an extremely consistent producer for us. A good even set of numbers with postiive fats. Suitable for Heifers.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$125	41	\$112	50	\$129	48	\$122	36

Purchaser: .....

Lot 36

#### **COOLIE FRANKLIN R56 SV**

EJKR56

Date of Birth: 31/03/2020 Register: APR

Mating Type: Natural

AMF,CAF,DDF,NHF

WATTLETOP FRANKLIN G188 SV SIRE: EJKN37 COOLIE N37 SV

COOLIE HOLDEN H22 SV

DAM: EJKL123 COOLIE L123 #

WATTLETOP ANN G183 PV COOLIE G057 #

TACE	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+5.9	+6.2	-5.4	+3.7	+50	+94	+127	+124	+15	+3.1	-4.1	+60	+4.9	-1.7	-1.2	+0.7	+2.2	-0.60	-
Acc	50%	44%	64%	66%	64%	63%	65%	62%	57%	57%	35%	60%	56%	63%	58%	60%	57%	49%	-
Perc	24	20	35	37	40	28	21	12	68	10	60	70	66	90	70	41	39	1	-

Notes: Top 1% for NFI-F. Top 10% for SS. An even data set makes this bull suitable for a variety of roles.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$134	24	\$120	26	\$148	25	\$127	24

**COOLIE WATTLETOP R25 SV** 

Date of Birth: 11/03/2020

Register: APR

Mating Type: Al

WATTLETOP L38 SV

SIRE: EJKN141 COOLIE N141 SV

DAM: EJKM76 COOLIE M76 #

COOLIE HILDA H48 #

MILLAH MURRAH HIGHLANDER G18 SV

TACE	July 202	1 Trans	<b>Tasman</b>	Angus C	attle Ev	aluation											Traits Ob	served: BW	Γ, Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-16.1	-12.0	-2.8	+8.3	+60	+104	+135	+118	+16	+3.2	-3.5	+81	+5.4	-2.2	-2.1	+1.8	+1.3	-0.09	-
Acc	50%	44%	68%	68%	66%	66%	67%	64%	58%	59%	36%	62%	59%	65%	61%	62%	59%	51%	-
Perc	99	99	77	99	6	9	11	18	54	8	71	7	57	95	87	8	75	19	-

Notes: A son of Coolie N141 with excellent growth. Top 10% for 200, 400, 600, SS, CWT and RBY.

WATTLETOP BARUNAH K106 SV

			Selection	Indexes						
Angus Breeding Domestic Heavy Grain Heavy Grass										
\$97	85	\$95	89	\$100	81	\$96	88			

Purchaser: ......

**Lot 38** 

#### **COOLIE WATTLETOP R35 SV**

EJKR35

Date of Birth: 15/03/2020

Register: APR

Mating Type: AI

AMF,CAF,DDF,NHF

WATTLETOP L38 SV

SIRE: EJKN141 COOLIE N141 SV

DAM: EJKG130 COOLIE G130 #

CHISHOLM E359 #

TE MANIA DIPLOMAT D10 PV

WATTLETOP BARUNAH K106 SV

	July 202	1 Trans	Гаѕтап	Angus (	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-4.3	-2.9	-1.6	+6.3	+49	+83	+111	+95	+18	+3.3	-6.2	+62	+8.1	+0.3	+0.8	+0.8	+2.2	+0.42	-
Acc	50%	45%	63%	67%	64%	64%	65%	63%	57%	58%	36%	61%	57%	63%	59%	60%	58%	49%	-
Perc	88	90	90	90	47	66	58	58	38	7	24	61	18	36	19	36	39	79	-

Notes: Top 20% for SS and EMA with positive fats and above average IMF.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$119	53	\$107	65	\$128	49	\$114	57

Purchaser: ..

Date of Birth: 14/03/2020

**Lot 39** 

#### **COOLIE NEWTON R31 SV**

EJKR31

Register: HBR Mating Type: Al AMF.CAF.DDF.NHF

MILLAH MURRAH RIGHT TIME F226 PV SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV

AYRVALE GENERAL G18 PV DAM: EJKN81 COOLIE USUAL N81 PV

WATTLETOP USUAL K107 SV

MILLAH MURRAH RADO L276 PV

	July 202	1 Trans	Гаѕтап	Angus C	attle Ev	aluation										Т	raits Observ	ed: GL, BW	T, Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+11.7	+10.2	-7.1	-0.3	+45	+89	+114	+101	+21	+2.3	-5.3	+58	+5.0	+4.4	+3.3	-1.6	+1.6	+0.28	-
Acc	52%	47%	81%	68%	66%	66%	67%	65%	59%	60%	37%	62%	59%	65%	61%	62%	60%	51%	-
Perc	2	2	14	1	70	45	50	45	16	32	38	75	64	1	1	98	63	64	_

Notes: An excellent blend of Millah Murrah and Wattletop genetics. Both grand dams are in our donor programn. Very suitable for heifers with the lowest birth weight in the sale at -0.3.. Top 1% rib and rump, BWT, CE DTRS, and CE DIR.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$118	55	\$110	57	\$113	68	\$120	41

Purchaser: ... Lot 40

**COOLIE STUNNER R8 SV** 

F.JKR8

Date of Birth: 04/03/2020

Register: HBR

Mating Type: AI

AMF,CAF,DDF,NHF

LD CAPITALIST 316 PV

DAM: EJKN145 COOLIE GILDA N145 #

WATTLETOP FRANKEL L435 SV

SIRE: USA18467508 MUSGRAVE 316 STUNNER PV

WATTLETOP J165 SV

MCATL BLACKBIRD 831-1378 #

		July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation										T	raits Observ	ed: GL, BW1	r, Genomics
	<i>&gt;</i> .	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EI	BV	-2.6	+0.1	-5.0	+4.2	+52	+95	+117	+115	+12	+1.6	-6.3	+69	+8.5	+0.8	+0.6	+0.4	+2.2	+0.17	-
Α	cc	55%	47%	81%	70%	69%	69%	70%	67%	61%	65%	35%	64%	61%	66%	62%	63%	61%	50%	-
Pe	erc	81	74	41	49	33	26	42	22	89	65	23	34	15	23	23	55	39	50	-

**Notes:** Positive fats, above average IMF, CWT and EMA. Maternal grand dam is in our donor program. Suitable for Heifers.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$127	37	\$118	31	\$137	38	\$121	38

EJKR16

Lot 41 **COOLIE BOW R15 SV** 

Date of Birth: 07/03/2020 Register: APR Mating Type: Al

KM BROKEN BOW 002  $^{\rm PV}$ 

SIRE: EJKM102 COOLIE BOW M102 SV

COOLIE H1#

COOLIE OUTLIER L162 SV DAM: EJKN95 COOLIE N95#

COOLIE HAYA H43 #

	July 202	1 Trans	Гаѕтап	Angus C	Cattle Ev	aluation										T	raits Observ	ed: GL, BW	T, Genomics
20	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-2.4	+0.3	-4.9	+6.2	+55	+98	+127	+99	+18	+1.6	-5.9	+75	+5.2	+2.2	+1.3	-0.5	+1.6	+0.37	-
Acc	50%	45%	81%	68%	65%	64%	66%	64%	58%	59%	37%	61%	58%	64%	60%	61%	58%	49%	-
Perc	80	72	43	89	19	18	22	48	38	65	28	16	60	5	11	86	63	75	-

**Notes:** By Coolie Bow M102 our 2018 sale topper, out of a Stern NZ bred cow. Top 10% for Rib and Rump, above average CWT.

			Selection	ı Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$121	49	\$111	54	\$122	57	\$120	41

Purchaser: .....

Lot 42 **COOLIE BOW R16 SV** 

AMF,CAFU,DDF,NHF Date of Birth: 08/03/2020 Register: APR Mating Type: AI

KM BROKEN BOW 002 PV SIRE: EJKM102 COOLIE BOW M102 SV

COOLIE H1 #

BEN NEVIS LUCRATIVE I 64 SV DAM: EJKN136 COOLIE N136 #

COOLIE L80 #

TACE CEDtrs 600 MCW Milk SS DTC CWT ЕМА Rib P8 RBY IMF Doc **EBV** +8.3 +6.2 +45 +85 +106 +73 +3.2 -5.9 +8.0 +0.5 -0.2 +1.2 +0.38 50% 45% 81% 67% 65% 65% 66% 64% 58% 59% 37% 61% 58% 64% 60% 61% 59% 50% Perc 11 20 69 4 71 59 69 89 17 8 28 65 19 30 43 21 67 76

Notes: Another Coolie Bow M102 son with above average indexes and positive fats. Suitable for Heifers

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$128	35	\$123	18	\$129	48	\$126	26

Purchaser: ..

**COOLIE WATTLETOP R37** EJKR37 Lot 43

AMF.CAC.DDF.NHF Date of Birth: 18/03/2020 Register: HBR Mating Type: Natural

WATTLETOP L38 SV

SIRE: EJKN141 COOLIE N141 SV

WATTLETOP BARUNAH K106 SV

ARDROSSAN DIRECTION Z24 SV DAM: EJKH56 COOLIE HILLARY H56 #

COOLIE D025 #

	July 202	1 Trans	Tasman	Angus C	attle Ev	aluation											Traits Ob	served: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-7.8	-7.8	-5.9	+7.3	+52	+97	+134	+111	+14	+0.6	-0.9	+81	+2.5	-3.3	-3.8	+0.4	+3.0	-0.13	-
Acc	51%	45%	65%	67%	66%	65%	67%	64%	58%	59%	36%	62%	58%	64%	60%	61%	58%	50%	-
Perc	95	99	27	97	33	20	12	28	76	94	95	7	94	99	99	55	16	16	-

Notes: From a very consistent producing maternal family line. Top 20% for 400, 600, CWT, IMF and NFI-F.

			Selection	Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$108	72	\$98	85	\$128	49	\$102	81

Purchaser: ....

COOLIE R2 SV Lot 44 EJKR2

AMF,CAF,DDF,NHF Date of Birth: 02/03/2020 Register: APR Mating Type: AI

MATAURI REALITY 839 #

COOLIE OUTLIER L162 SV

SIRE: EJKL48 COOLIE L48 SV DAM: EJKN154 COOLIE N154 #

COOLIE JANINE J76 #

COOLIE H411#

	July 202	?1 Trans	Tasman	Angus (	Cattle Ev	aluation										Т	raits Observ	ed: GL, BW	Γ, Genomics
33	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.0	+1.9	-8.1	+3.5	+43	+75	+93	+93	+11	+2.0	-3.8	+55	+5.3	+1.5	+1.0	+0.4	+0.5	+0.16	-
Acc	50%	45%	81%	69%	66%	65%	67%	64%	58%	59%	38%	62%	59%	65%	61%	62%	59%	51%	-
Perc	46	59	7	32	78	87	90	60	90	46	66	83	59	11	15	55	94	49	-

Notes: A low birthweight bull with exceptional gestation length. Positive fats. Suitable for Heifers.

			Selection	Indexes								
Selection Indexes  Angus Breeding Domestic Heavy Grain Heavy Grass												
\$88	92	\$97	86	\$74	94	\$95	89					

**COOLIE NEWTON R43 SV** Lot 45

Date of Birth: 22/03/2020 Register: APR Mating Type: Al

MILLAH MURRAH RIGHT TIME F226 PV

SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV

MILLAH MURRAH RADO L276 PV

COOLIE L36 SV

DAM: EJKN121 COOLIE N121 #

COOLIE G057 #

TACE	July 202	21 Trans	Tasman	Angus C	attle Ev	aluation											Traits Ob	served: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+3.3	-1.6	-5.2	+3.2	+42	+80	+100	+85	+14	+2.5	-7.4	+58	+8.2	+2.9	+2.9	+0.3	+0.3	+0.10	-
Acc	48%	42%	65%	66%	63%	63%	64%	62%	55%	56%	33%	60%	56%	63%	58%	60%	56%	48%	-
Perc	44	84	38	25	82	76	81	74	77	25	11	77	17	2	2	59	97	41	-

Notes: Top 5% for rib and rump. Suitable for Heifers.

			Selection	n Indexes									
Angus E	Angus Breeding Domestic Heavy Grain Heavy Grass												
\$110	69	\$108	63	\$98	82	\$114	57						

EJKR47

AMF,CA5%,DDF,NHF

Purchaser: ......

**COOLIE NEWTON R47 SV Lot 46** 

AMF,CAF,DDF,NHF Date of Birth: 24/03/2020 Register: HBR Mating Type: Natural

MILLAH MURRAH RIGHT TIME F226 PV

V A R INDEX 3282 PV DAM: EJKN71 COOLIE N71#

SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV

MILLAH MURRAH RADO L276 PV

COOLIE A276 #

	July 202	21 Trans	Tasman	Angus C	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
30	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-3.7	+0.5	-3.0	+6.0	+46	+79	+97	+97	+9	+0.2	-5.8	+51	+6.9	+2.5	+2.3	-0.7	+1.6	-0.06	-
Acc	50%	44%	70%	67%	65%	64%	66%	63%	57%	59%	35%	61%	57%	63%	59%	60%	58%	48%	-
Perc	86	71	75	86	67	76	85	52	97	98	30	91	32	3	4	90	63	22	-

Notes: Son of Newton N182 who is producing very consistently for us. Top 5% for Rib and Rump.

			Selection	n Indexes									
Angus E	Angus Breeding Domestic Heavy Grain Heavy Grass												
\$97	85	\$96	87	\$93	86	\$98	86						

Purchaser: ......

**COOLIE NEWTON R64 SV Lot 47** EJKR64

Mating Type: Natural

Date of Birth: 07/04/2020 Register: HBR

PATHFINDER GENESIS G357 PV

MILLAH MURRAH RIGHT TIME F226 PV

SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV

DAM: EJKN16 COOLIE N16# MILLAH MURRAH RADO L276 PV COOLIE G066 #

TACE	July 202	21 Trans	Tasman	Angus (	Cattle Ev	aluation											Traits Ob	oserved: BW	T, Genomics
	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	-3.2	+2.6	-8.4	+6.3	+48	+87	+110	+95	+14	+1.7	-6.7	+61	+5.7	+2.6	+2.7	-0.1	+1.0	+0.29	-
Acc	51%	46%	69%	67%	65%	65%	66%	64%	58%	59%	37%	62%	58%	65%	60%	62%	59%	51%	-
Perc	84	53	6	90	52	50	60	56	76	60	17	67	51	3	2	75	84	66	-

Notes: Both paternal and maternal gand dams are in or have daughters in our donor program. Top 5% for Rib

			Selection	Indexes									
Angus E	Selection Indexes  Angus Breeding Domestic Heavy Grain Heavy Grass												
\$111	68	\$105	71	\$105	77	\$112	62						

Purchaser: .....

**COOLIE NEWTON R65 SV** EJKR65 Lot 48

AMF,CAF,DDF,NHF Date of Birth: 07/04/2020 Register: APR Mating Type: Natural

MILLAH MURRAH RIGHT TIME F226 PV

GDAR LEUPOLD 298 #

SIRE: NMMN182 MILLAH MURRAH NEWTON N182 PV DAM: EJKN52 COOLIE N52#

MILLAH MURRAH RADO L276 PV

COOLIE L16 #

TACE July 2021 TransTasman Angus Cattle Evaluation CEDir Doc CEDtrs GL BW 200 400 600 MCW Milk SS DTC CWT EMA Rib P8 RBY IMF NFI-F EBV +6.8 -7.1 +127 +100 +23 -4.0 +76 +2.9 -0.3 +0.0 +0.8 -0.28 +6.1 +2.4 +53 +96 +1.9 +0.4 65% 66% 63% 55% 57% 32% 55% 62% 59% Acc Perc 19 13 28 48 51 62 14 91 46 71 89 7 14

Notes: Positive fats. Suitable for Heifers.

			Selection	n Indexes			
Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
\$115	61	\$112	50	\$108	74	\$119	44

Lot 49 **COOLIE NEXUS R67 SV** 

Date of Birth: 11/04/2020 Register: APR Mating Type: Natural

ASCOT LION HEART L305 PV

SIRE: NBNN113 BEN NEVIS NEXUS N113 SV

BEN NEVIS JEAN J152 #

MILLAH MURRAH HIGHLANDER G18 SV

DAM: EJKL39 COOLIE L39 #

COOLIE G052 #

TACE	July 202	1 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
Iranslasman Angue Cattle Evaluation	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+7.6	+3.7	-4.5	+1.9	+47	+88	+112	+74	+20	+3.7	-7.9	+73	+5.4	-0.4	+0.8	+0.0	+2.0	+0.26	-
Acc	50%	44%	68%	69%	67%	66%	67%	65%	59%	60%	37%	63%	60%	66%	62%	63%	60%	52%	-
Perc	14	42	50	8	61	47	56	88	27	3	7	22	57	59	19	71	46	62	-

Notes: A Nexus x Highlander cross which has proved very successful cross. Top 10% BWT, DTC and SS.

			Selection	Indexes										
Angus E	Angus Breeding Domestic Heavy Grain Heavy Grass													
\$135	22	\$123	18	\$141	33	\$130	18							

**COOLIE NEXUS R69 SV** EJKR69 Lot 50

AMF,CAF,DDF,NHF Date of Birth: 23/04/2020 Register: APR Mating Type: Natural

ASCOT LION HEART L305 PV

SIRE: NBNN113 BEN NEVIS NEXUS N113 SV

BEN NEVIS JEAN J152 #

MILLAH MURRAH HIGHLANDER G18 SV

DAM: EJKL30 COOLIE L30 # COOLIE H1#

	July 202	21 Trans	Гаѕтап	Angus C	Cattle Ev	aluation											Traits Ob	served: BW	T, Genomics
Iransitasman Angue Cattle Evaluation	CEDir	CEDtrs	GL	BW	200	400	600	MCW	Milk	SS	DTC	CWT	EMA	Rib	P8	RBY	IMF	NFI-F	Doc
EBV	+7.1	+3.3	-2.7	+2.8	+48	+91	+113	+85	+21	+5.3	-7.6	+70	+8.3	-1.2	-0.5	+1.7	+1.5	+0.24	-
Acc	51%	46%	69%	69%	67%	67%	68%	66%	60%	61%	38%	64%	61%	67%	62%	64%	61%	53%	-
Perc	17	46	79	18	55	37	53	75	17	1	9	31	16	81	51	10	67	59	-

Notes: Another Nexus x Highlander bull. Top 1% for SS. Suitable for Heifers.

				Selection	Indexes			
ĺ	Angus E	Breeding	Dom	estic	Heavy	Grain	Heavy	Grass
	\$139	17	\$130	7	\$146	27	\$134	12

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#: DNA verification has not yet been conducted

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# Bringing your new bull home

When purchasing a bull, care and handling after the sale can be as important as the purchase itself. Looking after your bull well during the initial stages of his working life may ensure longevity and success within your breeding herd.

#### Purchase

Temperament is an important characteristic when selecting a bull. Selecting a bull that may be flighty or aggressive will make life difficult for you each time he is handled. Note which bulls continually push to the centre of a mob, run around, or are unreasonably nervous, aggressive or excited.

At the sale, note any changes of temperament by individual bulls. Some bulls that are quiet in the yard or paddock may not like the pressure and noise of the auction and become excited. Others that were excited beforehand get much worse in the sale ring and can really perform. Use the yard or paddock behaviour as a guide, rather than the temperament shown in the ring.

#### **Delivery**

When transporting your new bull insurance against loss in transit, accidental loss of use, or infertility, is sometimes provided by vendors. Where it is not, it is worth considering.

After purchase tips:

- When purchasing, ask which health treatments he has received.
- Treat and handle him quietly at all times no dogs, no buzzers. Talk to him and give him time and room to make up his mind.
- With more than one bull from different origins, you must be able to separate them on the truck.
- Make sure that the truck floor is covered to prevent bulls from slipping. Sand, sawdust or a floor grid will prevent bulls from being damaged by going down in transit.
- If you can arrange it, put a few quiet cows or steers on the truck with the bull. Let them down into a yard with the bulls for a while before loading and after unloading.
- Unload and reload during the trip as little as possible. If necessary, rest with water and feed. Treat bulls kindly—your impatience or nervousness is easily transmitted to an animal unfamiliar to you and unsure of his environment.

If you use a professional carrier:

- Make sure the carrier knows which bulls can be mixed together.
- Discuss with the carrier, resting procedures for long trips, expected delivery time, truck condition and quiet handling.
- Give ear tag and brand numbers to the carrier and make sure you have the carrier's phone number.
- If buying bulls from interstate, organise any necessary health tests before leaving and work out if any other requirements must be met before cattle can come into another State.

When buying bulls from far away, you may often have to fit in with other delivery arrangements to reduce cost. You should make it clear how you want your bulls handled.

#### Arriva

When the bull or bulls arrive home, unload them at the yards into a group of house cows, steers or herd cows.

Never jump them from the back of a truck directly into a paddock—it may be the last time you see them. Bulls from different origins should be put into separate yards with other cattle for company.

Provide hay and water, then leave them alone until the next morning. The next day, bulls should receive routine health treatments. If they have not been treated before, all bulls should be vaccinated with:

- 5-in-1 vaccine;
- · vibriosis vaccine;
- leptospirosis vaccine (if in areas like the Hunter where leptospirosis exists);
- three-day sickness vaccine (if in areas where this sickness can cause problems).

Give particular attention to preventing new bulls bringing vibriosis into a herd. Vibriosis, a sexually transmitted disease, causes infertility and abortions and is most commonly introduced to a clean herd by an infected bull. These bulls show no signs of the illness. Vaccinated bulls are free from vibriosis, so vaccinating bulls against the disease should be a routine practice.

Vaccination involves two injections, 4–6 weeks apart, at the time of introduction, and then a booster shot every year. Complete the vaccinations 4 weeks before joining.

Consult with your veterinarian and draw up a policy for treating bulls on arrival and then annually. Bulls should be drenched to prevent introducing worms and, if necessary, should be treated for lice. Plan to give follow-up vaccinations 4–6 weeks later.

Leave the bulls in the yards for the next day or two on feed and water to allow them to settle down with other stock for company. A bull's behaviour will decide how quickly he can be moved out to paddocks.

#### Mating new young bulls

Newly purchased young bulls should not be placed with older herd bulls for multiple-sire joining. The older, dominant bull will not allow the young bulls to work, and will knock them around while keeping them away from the cows.

Use new bulls in either single-sire groups or with young bulls their own age. If a number of young bulls are to be used together, run them together for a few weeks before joining starts. They sort out their pecking order quickly and have few problems later.

When the young bulls are working, inspect them regularly and closely.

#### Managing older herd bulls

Older working bulls also need special care and attention before mating starts. They should be tested or checked every year for physical soundness, testicle tone, and serving capacity or ability.

All bulls to be used must be free-moving, active and in good condition. Working bulls may need supplementary feeding before the joining season to bring up condition.

#### **During mating**

Check bulls at least twice each week for the first 2 months. Get up close to them and watch each bull walk; check for swellings around the sheath and for lameness.

Have a spare bull or bulls available to replace any that break down. Replace any suspect bull immediately.

Rotate bulls in single-sire groups to make sure that any bull infertility is covered. Single-sire joining works well but it has risks. The bulls must be checked regularly and carefully, or the bulls should be rotated every one or two cycles.

Bulls are a large investment for breeding herds and they have a major effect on herd fertility. A little time and attention to make sure they are fit, free from disease and actively working is well worthwhile.

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