TACE

TransTasman Angus Cattle Evaluation

Shear Force

RESEARCH BREEDING VALUES

JUNE 2023

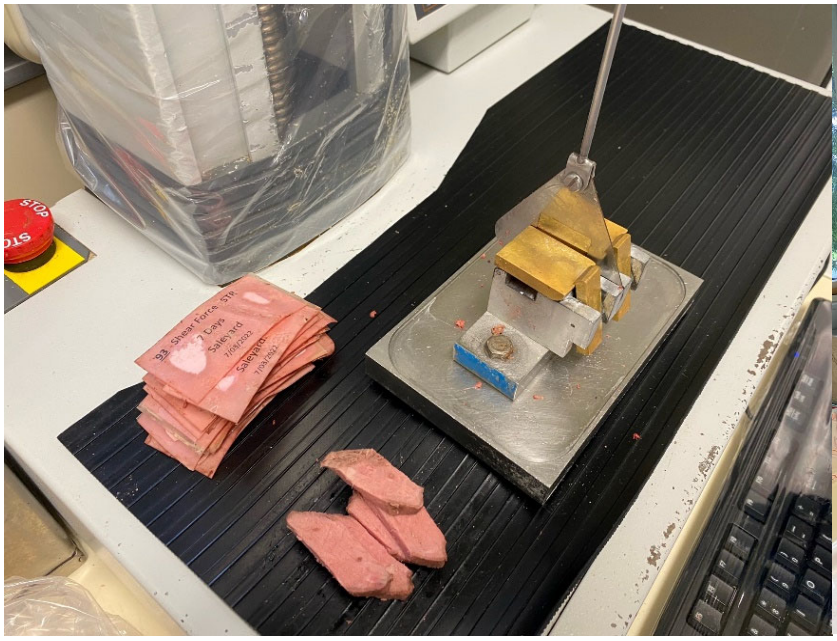
BACKGROUND

Angus Australia has partnered with the Animal Genetics and Breeding Unit (AGBU) and the Agricultural Business Research Institute (ABRI) to undertake research into the genetics of beef shear force in Australian Angus Cattle.

Shear Force, being an objective assessment of beef tenderness, has been identified as a trait of interest, as it is related to consumer eating experience.

As a result of this collaborative research, Shear Force RBVs are now routinely analyzed every two weeks in the TransTasman Angus Cattle Evaluation (TACE). To underpin this analysis, shear force measurements have been collected on beef samples from progeny in the Angus Sire Benchmarking Program. Angus animals, mostly steers, that are measured for shear force between 300 and 1000 days of age at slaughter are included in the analysis.

Shear Force measurements were collected using the laboratory assessed warner bratzler (WB) method. This involves measuring the force (in kg) it takes pull a blade through a piece of cooked meat. For this study, the samples are all collected from the Longissimus dorsi muscle at the 12th/13th rib grading site (i.e. cube role).



Study of the Angus Australia data by AGBU has demonstrated that a significant portion of the differences in beef shear force of individual animals can be attributed to genetics, having a moderate **heritability of 0.37**. Genetic correlations were not estimated due to the small current reference population size for this trait (n=1,169 as of May 2023).

From this collaborative research, couple with an initial reference population (phenotypes, genotypes and pedigree), it is now possible to generate breeding values for Shear Force and select animals for use within Angus breeding programs with desirable genetics for this trait.

UNDERSTANDING THE RESEARCH BREEDING VALUES

Shear Force Research Breeding Values (RBVs) are provided in this publication for sires with (i) at least 25% accuracy for their Shear Force RBV, and (ii) one or more progeny born in the last two years.

Shear Force (SF) RBVs are estimates of genetic differences between animals in objective beef tenderness.

SF RBVs are calculated from laboratory assessed beef shear force measurements using the warner bratzler (WB) method, pedigree and genomics. SF EBVs are expressed in kilograms of shear force that are required to pull a mechanical blade through a piece of cooked meat.

Lower, more negative, SF RBVs are more favourable, indicating that less shear force is required, and hence that the meat is more tender.

USING THE RESEARCH BREEDING VALUES IN SELECTION

The Research Breeding Values in this publication enable Angus breeders to select animals with desirable genetics for beef shear force, balanced with selection for other traits of importance within their breeding objective.

It is important to note that the Research Breeding Values are subject to greater potential change than EBVs routinely reported as part of the TransTasman Angus Cattle Evaluation (TACE) and should be used with caution in animal selection decisions.

Research Breeding Values may change as improvements are made to the analytical models that are used, and as additional performance information is collected.

ACKNOWLEDGEMENTS

Angus Australia gratefully acknowledges the contributions of Animal Genetics and Breeding Unit (AGBU) and the Agricultural Business Research Institute (ABRI), and in particular, Dr Gilbert Jeyaruban, Dr Steve Miller, Dr Natalie Connors, Dr Andrew Swan, Dr David Johnston and Dr Brad Crook, in the calculation of the Research Breeding Values that are included in this publication.

Angus Australia also acknowledges:

- Meat and Livestock Australia (MLA), particularly for the related R&D funding supplied to AGBU and for the Angus Sire Benchmarking program.
- The University of New England (UNE) Meat Science team particularly Dr Peter McGilchrist and Xuemei Han.

DISCLAIMER

The Research Breeding Values contained within this publication were calculated from data supplied to Angus Australia by members and/or third parties. Whilst every effort is made to ensure the accuracy of the data, Angus Australia, its officers and employees, assume no responsibility for the accuracy of the RBVs, nor the outcome (including consequential loss) of an action taken based on the information presented in this publication.

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NXOL172	**AJC L172** SV	-0.08	+6.3	+7.3	-7.9	+3.1	+61	+106	+150	+136	+13	+2.0	-4.4	+77	+5.9	-0.6	-0.3	+0.2	+1.3	-0.97	+26	+1.40	+1.28	+1.24	$218	$405
NXOF43	APR	27%	73%	55%	93%	95%	94%	93%	93%	85%	83%	79%	52%	90%	87%	82%	88%	80%	89%	81%	82%	85%	85%	81%		
NXOJ432		35	20	10	10	29	9	11	5	7	81	52	57	19	53	62	49	66	72	1	23	99	96	95	29	10
NXOL99	**AJC L99** PV	+0.03	+6.5	+0.2	-5.2	+5.4	+63	+112	+147	+122	+22	+3.3	-7.1	+100	+9.2	-1.5	+0.9	+0.6	+2.2	-0.57	+13	+1.26	+1.12	+0.96	$274	$458
USA16073564	APR	32%	81%	69%	96%	97%	96%	96%	96%	90%	90%	90%	55%	92%	90%	89%	90%	79%	91%	84%	88%	90%	91%	87%		
NXOJ112		87	19	76	42	78	7	6	6	18	14	12	5	1	18	81	27	40	46	1	84	99	81	25	1	1
DGJG10	**ALLOURA GET CRACKING G10** SV	-0.11	+9.9	+8.8	-3.5	+2.5	+43	+74	+86	+74	+13	-0.3	-8.3	+47	+16.1	+1.5	-0.2	+1.1	+5.4	+0.54	-3	+0.50	+1.00	+0.94	$282	$436
VTMB1	HBR	40%	93%	81%	99%	98%	98%	98%	98%	97%	97%	97%	74%	95%	93%	94%	94%	89%	92%	87%	96%	96%	95%	93%		
DGJZ15		22	3	4	70	18	81	89	96	87	84	99	1	93	1	17	47	14	2	88	99	3	57	20	1	3
DGJL94	**ALLOURA LOCK STOCK &**	-0.10	+6.7	+4.4	-4.8	+2.8	+54	+87	+114	+108	+12	+0.8	-4.9	+61	+0.6	+1.3	-1.6	+0.3	+2.3	-0.36	+19	+0.94	+0.86	+0.92	$198	$353
USA15832750	HBR	33%	73%	59%	93%	95%	93%	93%	93%	88%	80%	86%	50%	86%	81%	77%	82%	74%	84%	73%	86%	84%	82%	76%		
DGJH24		26	17	35	49	23	33	60	57	36	85	90	42	67	97	20	72	60	43	4	52	70	23	16	53	43
DGJQ30	**ALLOURA QUINELLA Q30** SV	-0.11	+4.2	+3.4	-0.9	+2.3	+51	+94	+111	+109	+17	+3.4	-7.8	+66	+13.2	+0.9	+0.9	+0.9	+4.6	+0.29	+16	+1.04	+1.08	+1.12	$269	$443
WWEL3	HBR	33%	72%	60%	92%	89%	84%	79%	81%	78%	70%	76%	50%	73%	67%	69%	70%	64%	71%	62%	69%	70%	70%	69%		
DGJK117		22	38	46	95	16	46	40	63	34	54	11	2	51	3	27	27	23	5	65	72	85	74	76	2	2
WJMF96	**ARDCAIRNIE F96** SV	-0.21	+5.6	+4.0	-5.0	+3.0	+49	+89	+122	+91	+15	+1.8	-4.0	+68	+7.4	-1.3	-0.8	+1.2	+0.6	-0.31	+9	+0.48	+0.82	+0.92	$204	$346
WJMB59	HBR	70%	88%	76%	98%	98%	97%	97%	97%	95%	95%	96%	63%	92%	90%	91%	91%	86%	91%	79%	88%	87%	87%	82%		
WJMD25		3	26	39	45	27	54	53	38	65	70	60	68	43	35	77	58	11	88	6	93	2	16	16	46	49
WJMJ27	**ARDCAIRNIE J27** SV	-0.12	+7.9	+9.7	-8.7	+2.7	+57	+100	+139	+130	+9	+0.4	-4.5	+97	+2.2	+2.2	+1.2	-0.1	+1.1	+0.29	+1	+0.88	+1.06	+1.18	$205	$390
USA15354674	HBR	30%	81%	69%	96%	96%	95%	96%	96%	92%	90%	92%	63%	92%	91%	90%	91%	87%	92%	85%	83%	87%	87%	82%		
WJMG96		18	10	2	6	21	20	23	12	11	97	96	54	2	91	10	23	81	77	65	99	58	71	88	45	16
WJMM117	**ARDCAIRNIE M117** SV	-0.15	+6.0	+3.9	-6.3	+3.7	+58	+101	+133	+129	+1	+2.7	-5.0	+78	+11.4	-0.7	-2.0	+1.7	+0.3	-0.13	+20	+0.90	+1.00	+0.88	$226	$406
WJMF96	HBR	44%	73%	60%	92%	95%	94%	93%	93%	86%	81%	89%	54%	84%	83%	83%	83%	76%	84%	72%	75%	80%	81%	76%		
WJMG78		10	23	40	25	41	17	20	19	11	99	26	39	18	7	64	78	3	92	15	50	62	57	9	22	9
NAQA241	**ARDROSSAN EQUATOR A241** PV	-0.01	-1.1	+2.2	-4.9	+4.1	+50	+91	+121	+108	+20	+3.1	-8.2	+85	+8.7	-1.7	-0.6	+1.3	+1.4	+0.52	+25	+0.46	+0.84	+1.00	$225	$380
USA2928	HBR	80%	99%	97%	99%	99%	99%	99%	99%	99%	99%	99%	95%	98%	98%	98%	98%	98%	98%	96%	99%	99%	99%	99%		
NAQW38		72	78	58	47	50	53	48	41	36	25	16	1	7	22	84	55	9	69	86	25	2	20	38	23	22
NAQN329	**ARDROSSAN HOLBROOK N329**	-0.10	-0.9	-2.5	-3.3	+3.2	+52	+96	+121	+90	+23	+3.1	-6.4	+75	+6.2	+2.0	+2.2	-1.0	+4.6	+1.01	+13	+0.78	+0.98	+0.98	$222	$360
NAQH318	HBR	42%	69%	55%	96%	94%	94%	93%	91%	85%	73%	78%	50%	88%	87%	86%	87%	78%	89%	79%	79%	81%	87%	83%		
NAQK30		26	77	90	73	30	42	34	41	66	12	16	11	23	49	11	12	99	5	99	84	36	52	31	26	38
NAQH255	**ARDROSSAN HONOUR H255** PV	+0.03	-0.6	-1.2	-3.1	+4.6	+44	+74	+98	+93	+14	+2.1	-7.2	+61	+5.9	+1.1	-0.9	+0.5	+2.4	+0.94	+6	+0.42	+1.02	+1.24	$181	$311
NORE11	HBR	55%	95%	86%	99%	99%	98%	98%	98%	98%	98%	98%	83%	96%	95%	96%	96%	94%	96%	91%	97%	97%	97%	95%		
NAQD17		87	75	85	76	62	78	90	85	63	77	48	4	67	53	24	60	47	41	99	97	1	62	95	70	74
NAQQ67	**ARDROSSAN NECTAR Q67** PV	+0.02	+4.9	+3.3	-11.2	+4.0	+56	+101	+135	+116	+16	+2.7	-5.4	+62	+7.8	+0.3	-0.3	+0.1	+3.2	-0.06	+34	+0.34	+0.84	+1.10	$233	$402
NMMN334	HBR	33%	67%	52%	90%	91%	81%	77%	79%	75%	65%	75%	42%	68%	63%	65%	66%	59%	67%	55%	55%	64%	71%	68%		
NAQL96		84	32	47	1	48	23	20	17	24	57	26	29	64	30	40	49	72	22	21	7	1	20	70	16	11
QQFH147	**ASCOT HALLMARK H147** PV	-0.29	-5.9	+3.5	-5.2	+7.4	+60	+109	+152	+131	+15	+3.6	-5.9	+85	-2.4	+0.7	+0.6	-0.8	+2.6	+0.51	+14	+0.44	+0.80	+1.02	$189	$347
VTME343	HBR	34%	94%	83%	98%	99%	98%	98%	98%	97%	97%	98%	76%	96%	94%	95%	95%	93%	95%	87%	97%	95%	95%	92%		
NMMF123		1	94	45	42	97	12	9	4	10	68	8	18	8	99	31	33	97	35	86	77	2	13	45	62	48
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

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Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
HIOE7	**AYRVALE BARTEL E7** PV	-0.12	+10.1	+10.6	-5.1	+1.7	+49	+86	+111	+71	+26	+2.5	-7.9	+67	+8.2	-0.4	+1.0	+1.1	+3.6	+0.44	+2	+1.00	+1.00	+1.12	$287	$444
VTMB219	HBR	81%	99%	96%	99%	99%	99%	99%	99%	99%	99%	99%	93%	98%	98%	98%	98%	98%	98%	95%	99%	99%	99%	98%		
BVVB32		18	3	1	44	10	56	65	63	90	4	33	2	48	27	57	26	14	15	80	99	79	57	76	1	2
HIOG11	**AYRVALE GENETIC G11** PV	+0.00	-4.2	-16.3	-5.7	+5.1	+66	+118	+163	+142	+19	+1.8	-5.6	+83	-0.3	-3.4	-2.1	-0.4	+2.3	-0.25	+36	+1.08	+1.04	+1.14	$191	$342
SEWD138	HBR	39%	87%	76%	98%	98%	97%	97%	97%	96%	95%	94%	59%	92%	89%	90%	91%	85%	91%	80%	87%	87%	88%	82%		
HIOE2		77	90	99	34	72	3	2	1	5	35	60	24	10	98	98	80	91	43	8	6	89	66	81	61	53
NBBN47	**BALD BLAIR NELSON N47** PV	-0.07	+4.9	-0.4	-5.5	+4.4	+58	+108	+159	+156	+20	+1.1	-3.7	+89	+5.0	-1.1	-1.4	+0.8	+0.6	-0.29	+29	+1.02	+1.14	+1.16	$186	$370
HIOG18	HBR	33%	73%	60%	95%	94%	92%	92%	91%	88%	79%	88%	53%	87%	85%	85%	86%	78%	87%	78%	85%	85%	85%	81%		
NBBL83		40	32	80	37	57	18	10	2	2	27	84	76	5	65	73	69	28	88	6	16	82	84	85	65	30
ECMM114	**BANNABY BERKLEY M114** SV	+0.00	+4.0	+5.1	-10.6	+4.4	+61	+100	+146	+171	+5	+4.6	-8.8	+73	+3.0	-0.6	-3.5	+0.3	+1.9	-0.16	+25	+0.82	+0.74	+1.14	$201	$417
VTMB1	HBR	38%	74%	65%	95%	93%	90%	91%	92%	84%	74%	86%	63%	84%	84%	84%	84%	78%	85%	75%	78%	87%	87%	83%		
BBAZ107		77	40	28	2	57	9	22	6	1	99	2	1	31	86	62	93	60	55	13	27	45	7	81	49	6
ECMK63	**BANNABY REALITY K63** PV	+0.09	+5.1	+3.1	-3.4	+3.7	+45	+78	+102	+106	+12	+1.8	-1.7	+52	+6.0	-0.5	-1.2	+0.6	+1.1	-0.16	+39	+0.58	+1.04	+1.18	$136	$271
NZE14647008839	HBR	33%	76%	64%	96%	96%	92%	91%	92%	86%	78%	81%	59%	89%	88%	87%	88%	83%	90%	82%	83%	85%	85%	81%		
ECMH45		97	30	49	72	41	74	83	81	40	86	60	97	87	52	60	66	40	77	13	3	7	66	88	94	90
ECMN187	**BANNABY REALITY N187** SV	+0.09	+8.7	+6.8	-7.1	+3.7	+47	+75	+91	+82	+10	+4.0	-7.2	+54	+8.1	+2.5	+3.1	+0.1	+3.4	+0.44	+7	+0.82	+1.16	+1.42	$233	$387
NZE14647008839	HBR	36%	73%	64%	94%	92%	90%	91%	91%	85%	74%	87%	60%	86%	86%	85%	86%	79%	88%	78%	82%	87%	87%	84%		
ECMF113		97	7	13	16	41	63	88	93	78	95	4	4	82	27	7	6	72	19	80	96	45	87	99	16	18
VONG272	**BANQUET GARRETT G272** SV	-0.12	-1.0	+4.6	-1.8	+6.4	+54	+98	+145	+147	+18	+4.7	-1.0	+56	+2.0	-2.6	-3.9	+0.3	+2.2	-0.79	+31	+0.56	+1.04	+1.10	$125	$282
VOND412	HBR	26%	76%	60%	94%	96%	93%	94%	94%	88%	85%	90%	55%	88%	87%	87%	87%	79%	85%	78%	83%	87%	87%	81%		
VONC368		18	78	33	89	91	32	27	7	3	39	2	98	79	92	94	95	60	46	1	11	6	66	70	96	86
VONN462	**BANQUET NUTTELLA N462** PV	-0.05	-3.3	+2.6	-5.2	+6.1	+53	+100	+127	+96	+22	+3.3	-4.3	+70	+2.9	+0.6	+0.4	-0.1	+1.3	-0.01	+59	+0.58	+0.86	+0.98	$180	$310
VONJ507	HBR	31%	68%	50%	94%	96%	91%	91%	89%	81%	69%	86%	42%	75%	71%	73%	73%	67%	72%	55%	86%	56%	56%	51%		
VONK224		51	88	54	42	88	37	23	28	57	13	12	60	37	87	34	36	81	72	26	1	7	23	31	71	74
NBNN239	**BEN NEVIS NEWSFLASH N239** PV	-0.12	-0.2	+5.2	-5.5	+4.5	+56	+98	+130	+116	+22	+0.9	-3.5	+82	+7.2	-1.5	-1.3	+0.8	+1.3	+0.06	+10	+1.04	+1.06	+0.96	$195	$342
USA16956101	HBR	29%	78%	61%	97%	97%	95%	96%	96%	90%	82%	91%	50%	81%	81%	82%	81%	76%	80%	61%	89%	91%	90%	86%		
NBNH215		18	73	27	37	60	22	28	24	24	17	89	80	11	37	81	67	28	72	34	91	85	71	25	56	52
NGXQ227	**BONGONGO BE QUICK Q227** PV	-0.12	+1.3	-1.6	-4.9	+3.8	+59	+103	+127	+77	+23	+4.0	-5.3	+72	+14.4	+1.5	+3.3	-0.1	+6.2	+0.70	+24	+0.54	+0.92	+1.06	$293	$431
VLYM518	HBR	32%	71%	58%	94%	92%	85%	83%	81%	79%	68%	73%	48%	73%	70%	72%	72%	67%	72%	60%	57%	70%	70%	70%		
NGXN221		18	63	87	47	44	14	16	29	84	10	4	32	33	2	17	5	81	1	95	32	5	37	58	1	3
NGXP212	**BONGONGO P212** SV	-0.08	+5.9	+8.3	-6.9	+3.0	+51	+92	+118	+101	+23	+3.7	-7.2	+60	+3.3	+2.8	+2.2	-0.9	+4.3	+0.71	+7	+0.88	+0.94	+1.04	$230	$400
NORL508	HBR	30%	73%	59%	95%	95%	93%	92%	90%	84%	71%	83%	51%	77%	79%	79%	79%	74%	78%	62%	82%	69%	69%	68%		
NGXL13		35	23	5	18	27	47	44	47	47	10	7	4	70	84	5	12	98	8	95	96	58	42	51	18	11
NGXP421	**BONGONGO P421** SV	-0.03	+9.4	+6.4	-6.7	+1.9	+57	+96	+120	+79	+23	+2.9	-6.3	+66	+10.4	+1.6	+0.9	+0.3	+3.2	+0.85	+20	+1.08	+1.02	+1.10	$273	$430
USA18229425	APR	28%	70%	55%	92%	91%	87%	85%	82%	79%	68%	80%	46%	73%	70%	73%	72%	67%	72%	57%	77%	70%	70%	65%		
NGXM413		62	4	16	21	11	19	34	44	82	9	21	12	52	11	16	27	60	22	98	49	89	62	70	1	3
NUIF32	**BONNY BROOKE FALCO F32** SV	+0.06	-7.1	-5.4	+0.1	+6.4	+51	+80	+111	+98	+19	-0.1	-3.4	+65	-1.9	+4.0	+4.1	-1.3	+2.1	-0.45	+6	+1.04	+0.92	+1.10	$129	$228
NGMC196	HBR	41%	63%	48%	90%	88%	89%	88%	89%	81%	71%	67%	50%	83%	80%	81%	82%	72%	79%	70%	77%	79%	79%	74%		
NUID96		93	96	97	98	91	43	79	64	53	34	99	82	53	99	2	3	99	49	2	97	85	37	70	96	97
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident	Name	Sire / Dam	Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
					Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
HCAG013	**BOONAROO GRAVITY G013** PV			+0.01	+5.9	+1.1	-5.8	+3.4	+50	+88	+116	+107	+26	+3.8	-6.8	+57	+4.9	-2.9	-3.0	+1.2	+2.8	-0.50	+11	+0.46	+0.92	+1.08	$217	$376
VTMA217	HBR			46%	88%	79%	98%	98%	97%	97%	97%	94%	94%	96%	70%	92%	91%	91%	91%	86%	90%	83%	93%	93%	94%	91%		
VTMZ618				81	23	69	33	34	53	56	53	38	3	6	7	78	66	96	89	11	31	2	88	2	37	65	31	25
HCAN20	**BOONAROO KASBAH N20** SV			-0.08	+6.6	+4.2	-6.3	+4.8	+47	+86	+111	+97	+19	+3.0	-5.3	+59	+5.7	+0.4	-0.8	+0.7	+1.5	+0.63	+7	+0.92	+0.94	+1.02	$195	$345
VTMK338	HBR			29%	69%	52%	93%	95%	91%	91%	87%	82%	71%	82%	44%	87%	86%	86%	87%	77%	89%	80%	86%	89%	88%	82%		
HCAL54				35	18	37	25	66	66	65	63	55	33	18	32	73	56	38	58	34	67	93	96	66	42	45	57	49
NGME124	**BOOROOMOOKA INSPIRED E124**			-0.17	-5.9	+0.8	-6.6	+3.7	+46	+82	+107	+98	+14	+0.9	-8.0	+78	+3.5	-0.3	+3.3	-0.4	+2.4	+0.71	+24	+0.80	+0.84	+0.78	$187	$318
NAQA241	HBR			78%	96%	90%	99%	99%	98%	98%	98%	98%	98%	98%	82%	96%	95%	96%	96%	94%	95%	88%	98%	97%	97%	96%		
NGMB325				6	94	71	22	41	70	74	71	53	75	89	1	17	82	55	5	91	41	95	30	40	20	2	64	70
NGMN418	**BOOROOMOOKA JACKPOT N418**			-0.13	+2.9	+4.7	-8.8	+5.6	+61	+109	+139	+127	+12	+3.2	-7.3	+85	+10.8	+0.8	+2.2	+0.8	+1.9	+0.17	+26	+1.36	+1.08	+1.00	$271	$458
WWEL3	HBR			33%	74%	61%	94%	96%	94%	94%	94%	91%	80%	91%	53%	85%	84%	84%	85%	78%	85%	76%	95%	90%	90%	84%		
NGML471				15	50	32	5	81	10	8	12	13	88	14	4	8	9	29	12	28	55	49	25	99	74	38	2	1
NGMK9	**BOOROOMOOKA KINGY K9** PV			-0.30	-5.3	-7.6	-2.2	+6.6	+49	+86	+121	+112	+19	+3.1	-7.1	+67	+8.7	+0.8	-0.5	+0.4	+4.5	+0.51	+12	+0.70	+0.92	+0.88	$204	$336
BNAD145	HBR			46%	87%	78%	97%	98%	97%	97%	97%	96%	95%	95%	69%	92%	90%	91%	91%	88%	91%	82%	97%	95%	95%	90%		
NGMA281				1	93	99	86	92	53	65	41	30	32	16	5	47	22	29	53	53	6	86	85	21	37	9	47	57
NGMN213	**BOOROOMOOKA NORMANDY**			-0.10	+11.7	+8.7	-8.2	+1.0	+39	+72	+99	+75	+25	+3.1	-7.3	+49	+2.5	-2.1	-2.3	+0.2	+3.6	+0.92	+38	+0.82	+0.70	+1.02	$199	$344
NGML201	HBR			32%	69%	52%	93%	96%	94%	94%	94%	91%	79%	91%	47%	86%	85%	84%	85%	76%	87%	74%	94%	91%	91%	84%		
NGML45				26	1	4	8	5	91	91	84	86	5	16	4	92	89	89	82	66	15	99	3	45	4	45	52	51
NGMP96	**BOOROOMOOKA PARAGON P96**			-0.11	-0.3	+2.8	-7.5	+3.9	+60	+123	+160	+124	+31	+3.3	-8.3	+110	+12.2	-1.2	+0.1	+1.0	+3.0	+0.52	+40	+0.96	+1.02	+1.18	$297	$483
WWEL3	HBR			33%	80%	64%	97%	98%	97%	96%	96%	88%	75%	95%	55%	80%	80%	81%	80%	75%	79%	65%	97%	88%	86%	84%		
NGMM566				22	74	52	13	46	11	1	2	15	1	12	1	1	5	75	41	18	26	86	3	73	62	88	1	1
NGMP22	**BOOROOMOOKA PRESIDENT**			-0.13	-0.4	+0.8	-7.0	+4.9	+54	+95	+127	+112	+21	+2.0	-6.9	+70	+8.1	+1.0	+0.6	+0.3	+2.9	+0.29	+19	+0.48	+0.66	+0.72	$228	$383
NGMK9	HBR			36%	71%	55%	96%	95%	92%	92%	92%	84%	71%	83%	47%	77%	72%	75%	74%	69%	73%	60%	91%	71%	71%	69%		
NGMK640				15	74	71	17	68	31	36	29	30	20	52	6	38	27	25	33	60	28	65	56	2	3	1	20	21
NGMQ5	**BOOROOMOOKA QUALITY Q5** SV			-0.11	+4.4	+5.5	-5.9	+3.7	+58	+109	+147	+145	+18	+2.5	-5.5	+85	-2.1	+1.5	+2.3	-1.8	+5.3	+0.37	+29	+0.72	+0.90	+1.00	$211	$405
NORL519	HBR			37%	70%	58%	86%	84%	78%	75%	77%	75%	69%	75%	50%	69%	66%	68%	68%	63%	69%	59%	64%	74%	74%	71%		
NGMK720				22	36	24	31	41	18	8	6	4	44	33	27	8	99	17	11	99	2	74	15	24	32	38	38	10
BOWK2	**BOWMAN AUSTRALIA K2** PV			-0.11	+5.6	+3.0	-6.9	+3.8	+48	+94	+121	+98	+20	+4.5	-7.8	+68	+7.3	+0.3	-1.4	+0.9	+1.2	-0.49	+30	+0.82	+0.98	+0.90	$222	$385
VTME343	HBR			35%	75%	70%	92%	89%	88%	88%	88%	83%	79%	76%	65%	86%	86%	86%	86%	81%	88%	80%	81%	84%	84%	81%		
NAQZ31				22	26	50	18	44	61	39	41	54	28	2	2	44	36	40	69	23	75	2	13	45	52	12	26	19
SRKK306	**BOWMONT KING K306** PV			-0.14	-1.4	-9.4	-5.6	+4.7	+52	+82	+107	+89	-1	-0.1	-5.3	+69	+15.2	-0.6	-1.9	+1.7	+5.0	+0.57	+29	+0.54	+0.92	+0.76	$253	$371
NJWG279	HBR			36%	85%	73%	97%	97%	97%	97%	97%	94%	92%	95%	66%	93%	92%	91%	92%	89%	93%	84%	94%	90%	91%	87%		
TFAD58				12	80	99	36	64	42	73	72	68	99	99	32	41	1	62	77	3	3	90	15	5	37	1	5	29
BONQ007	**BRIDGEWATER QUANTUM Q007**			-0.08	-2.4	-1.3	-6.2	+5.4	+63	+99	+130	+98	+21	+0.1	-6.5	+82	+7.3	-0.4	-1.8	+0.3	+2.8	+0.03	+30	+0.98	+0.82	+1.06	$244	$379
QMUM13	HBR			35%	72%	59%	92%	91%	88%	84%	84%	80%	69%	76%	47%	74%	69%	72%	72%	66%	72%	61%	82%	70%	70%	68%		
HIOL28				35	84	85	27	78	6	25	23	53	22	98	10	11	36	57	76	60	31	30	14	77	16	58	9	23
AMQH64	**BROOKLANA HI TOWER H64** PV			-0.17	-6.8	-2.7	+0.9	+5.7	+51	+100	+141	+130	+19	+1.5	-3.2	+81	+5.2	+1.6	+0.9	+0.5	+1.4	+0.64	+29	+0.64	+0.94	+1.04	$156	$292
VTME343	HBR			35%	76%	67%	93%	91%	89%	89%	90%	84%	76%	76%	62%	87%	86%	86%	87%	79%	88%	80%	80%	84%	84%	78%		
AMQF27				6	95	91	99	83	47	23	10	11	37	72	85	12	63	16	27	47	69	93	16	13	42	51	87	83
	Breed Average EBVs			**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
QBUG49	**BURENDA GEIGER COUNTER**	+0.05	+9.7	+10.0	-7.6	+2.3	+38	+80	+103	+82	+18	+2.2	-8.6	+59	+2.7	+0.9	-1.4	+0.1	+4.0	+0.13	+31	+0.98	+1.18	+0.96	$222	$383
VTMB1	HBR	41%	84%	73%	96%	97%	95%	96%	94%	94%	93%	94%	68%	91%	90%	90%	91%	85%	89%	83%	95%	85%	85%	81%		
QBUE5		92	3	1	12	16	92	80	79	78	40	44	1	71	88	27	69	72	10	43	12	77	89	25	26	20
GTNM3	**CHILTERN PARK MARBLES M3**	-0.02	+3.7	-4.3	-6.1	+2.5	+41	+76	+93	+57	+27	+3.3	-6.8	+55	+4.1	-0.1	-3.0	+0.2	+3.6	-0.11	+11	+0.50	+1.08	+1.14	$194	$304
NORE11	HBR	53%	81%	71%	96%	96%	96%	96%	96%	90%	86%	90%	66%	91%	89%	85%	90%	83%	91%	83%	88%	93%	93%	90%		
GTNJ4		68	42	95	28	18	85	87	90	97	2	12	7	81	76	50	89	66	15	16	88	3	74	81	57	78
GTNM6	**CHILTERN PARK MOE M6 PV**	-0.17	+6.5	+3.3	-1.8	+3.0	+53	+102	+134	+82	+24	+1.6	-6.4	+80	+6.8	-0.3	+1.3	+0.2	+1.9	+0.20	+47	+0.72	+0.98	+1.06	$258	$410
VTMF734	HBR	36%	92%	74%	99%	99%	98%	98%	98%	94%	92%	98%	60%	92%	91%	90%	91%	84%	91%	80%	98%	97%	97%	95%		
VSNF15		6	19	47	89	27	37	19	17	78	6	68	11	14	42	55	22	66	55	53	1	24	52	58	4	8
GTNP9	**CHILTERN PARK PICASSO P9 PV**	-0.07	+9.0	+5.9	-3.5	+1.6	+57	+103	+134	+97	+22	+3.5	-7.5	+98	+7.8	-0.7	+1.1	-0.4	+4.6	+0.50	+35	+0.76	+0.70	+0.84	$278	$455
HKFJ5	HBR	40%	76%	63%	97%	97%	92%	93%	92%	85%	72%	87%	54%	84%	82%	83%	83%	77%	85%	72%	75%	78%	80%	76%		
GTNK26		40	6	20	70	9	19	16	17	55	15	9	3	1	30	64	24	91	5	85	7	32	4	5	1	1
GTNQ322	**CHILTERN PARK QUADRANT**	+0.06	+6.1	+3.7	-2.5	+3.7	+68	+123	+154	+114	+17	+4.5	-5.3	+96	+12.0	-0.7	-1.2	+0.4	+3.5	+0.63	+11	+1.24	+1.08	+0.98	$293	$477
USA18636106	HBR	30%	71%	53%	97%	96%	84%	84%	85%	79%	67%	71%	41%	72%	64%	66%	65%	59%	67%	56%	61%	69%	69%	64%		
GTNL198		93	22	43	83	41	2	1	3	27	50	2	32	2	5	64	66	53	17	93	89	98	74	31	1	1
THCL61	**CLUDEN NEWRY ELEVATOR L61**	-0.02	-3.2	-2.1	-3.9	+6.4	+64	+126	+159	+166	+20	+1.5	-3.9	+104	+9.8	-3.7	-2.0	+1.4	-1.1	+0.14	+40	+0.66	+0.92	+0.94	$188	$371
WDCE11	HBR	35%	77%	65%	93%	95%	94%	94%	94%	89%	85%	89%	60%	89%	88%	84%	89%	82%	90%	80%	91%	92%	92%	89%		
THCF92		68	87	89	64	91	5	1	2	1	25	72	71	1	14	99	78	7	99	44	2	15	37	20	63	29
QMUM13	**CLUNES CROSSING DUSTY M13**	+0.11	+1.2	+3.8	-7.9	+5.3	+66	+102	+122	+67	+14	+1.0	-7.7	+72	+13.0	-2.5	-3.9	+1.4	+1.9	+0.09	+10	+0.88	+0.82	+1.02	$305	$440
USA16295688	HBR	30%	93%	81%	99%	99%	98%	98%	98%	97%	95%	98%	68%	94%	93%	93%	93%	88%	93%	84%	97%	97%	97%	95%		
QMUG1		98	64	42	10	76	4	18	40	93	78	87	2	32	3	93	95	7	55	38	92	58	16	45	1	2
NBHL348	**CLUNIE RANGE LEGEND L348 PV**	+0.05	-6.0	+4.4	-8.2	+6.1	+58	+103	+126	+156	+2	+2.9	-6.6	+63	+0.7	+3.6	+1.2	-0.8	+2.4	+0.09	+25	+0.48	+0.82	+1.28	$164	$341
NZE14647008839	HBR	29%	93%	82%	99%	99%	98%	98%	98%	97%	96%	98%	73%	94%	93%	93%	93%	90%	93%	83%	97%	97%	97%	96%		
AHWJ81		92	94	35	8	88	16	16	31	2	99	21	9	61	97	3	23	97	41	38	25	2	16	98	83	53
NBHP392	**CLUNIE RANGE PLANTATION**	+0.11	+7.1	+4.6	-6.0	+4.1	+68	+118	+143	+106	+23	+5.2	-4.7	+69	+2.6	-0.6	-0.7	-0.9	+3.1	+0.05	+19	+0.76	+1.00	+0.92	$245	$418
USA17960722	HBR	28%	79%	60%	98%	98%	97%	96%	95%	85%	71%	94%	52%	79%	81%	81%	80%	75%	80%	62%	94%	92%	92%	88%		
NBHM516		98	15	33	30	50	2	2	8	40	11	1	48	41	89	62	57	98	24	33	55	32	57	16	9	5
WDCH249	**COONAMBLE HECTOR H249 SV**	+0.05	-0.2	-2.1	-8.8	+4.5	+45	+80	+100	+86	+5	+1.2	-4.5	+46	+10.9	+3.5	+4.3	+0.9	+0.1	-0.50	+42	+0.42	+0.50	+0.82	$188	$310
USA14885809	HBR	43%	94%	84%	99%	99%	98%	98%	98%	97%	97%	98%	73%	95%	94%	94%	94%	92%	94%	86%	98%	96%	96%	93%		
WDCE9		92	73	89	5	60	75	80	83	73	99	81	54	94	9	3	2	23	94	2	2	1	1	4	63	74
WDCJ266	**COONAMBLE JUNIOR J266 PV**	-0.41	-8.7	-6.9	-0.5	+5.7	+59	+105	+143	+131	+17	+2.3	-5.2	+103	+10.8	-5.0	-5.0	+1.6	+2.3	-0.34	+8	+0.92	+0.78	+1.06	$199	$336
BNAD145	HBR	42%	89%	77%	98%	98%	97%	97%	97%	94%	95%	96%	70%	93%	91%	91%	91%	88%	91%	83%	93%	94%	94%	90%		
WHHA61		1	97	99	96	83	14	14	8	10	48	40	34	1	9	99	99	4	43	5	94	66	11	58	51	57
WDCK314	**COONAMBLE KEVIN K314 PV**	-0.06	-1.8	+3.1	-2.4	+5.0	+55	+103	+134	+109	+24	+4.3	-6.2	+89	+6.5	+0.3	+1.0	+0.1	+1.5	+0.31	+25	+0.48	+1.08	+1.22	$212	$365
NAQA241	HBR	48%	83%	71%	95%	97%	96%	95%	96%	91%	91%	92%	65%	90%	89%	89%	89%	85%	90%	80%	81%	85%	85%	82%		
WDCD94		46	82	49	84	71	29	16	17	34	7	3	14	4	46	40	26	72	67	67	25	2	74	93	37	34
USA19611994	**DB ICONIC G95 PV**	+0.04	+4.3	+7.9	-3.0	+3.0	+68	+129	+157	+139	+17	+3.0	-3.6	+93	+7.4	+0.3	-0.9	-0.3	+4.2	+0.00	+15	+1.22	+1.02	+0.94	$258	$455
USA18467508	HBR	27%	70%	55%	94%	93%	86%	83%	81%	79%	76%	77%	42%	78%	75%	72%	68%	66%	78%	54%	56%	84%	86%	67%		
USA18974126		89	37	7	77	27	2	1	2	6	52	18	78	3	35	40	60	88	8	27	75	97	62	20	4	1
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NGCN208	**DULVERTON NEW APPROACH**	-0.20	+0.4	+3.1	-6.4	+4.1	+54	+92	+121	+119	+14	+1.5	-5.2	+78	+11.7	-2.1	-1.8	+1.9	+1.2	-0.19	+35	+1.02	+1.12	+1.02	$219	$374
WWEL3	HBR	30%	72%	60%	95%	92%	94%	95%	95%	88%	80%	92%	55%	88%	87%	87%	88%	80%	89%	79%	80%	85%	85%	82%		
NGCG037		3	69	49	24	50	31	44	42	20	75	72	34	18	6	89	76	2	75	11	6	82	81	45	29	26
BHRE614	**DUNOON EVIDENT E614 PV**	-0.05	-11.3	-17.7	+0.0	+5.9	+52	+90	+111	+108	+14	+3.6	-5.9	+58	+11.2	-2.7	-1.4	+1.7	+1.7	+0.41	+43	+0.88	+1.06	+0.86	$172	$276
VTMB219	HBR	77%	97%	90%	99%	99%	99%	99%	99%	98%	98%	98%	83%	97%	96%	97%	97%	95%	96%	90%	98%	96%	96%	94%		
BHRB681		51	99	99	97	85	42	51	64	36	76	8	18	74	8	94	69	3	61	78	2	58	71	7	77	88
USA16198796	**EF COMPLEMENT 8088 PV**	-0.16	+5.6	+9.3	-5.2	+2.9	+53	+98	+130	+96	+21	+1.3	-8.0	+77	+7.6	+1.3	+2.0	+0.4	+1.8	+0.55	+21	+0.94	+1.30	+1.14	$267	$438
USA14686137	HBR	34%	98%	93%	99%	99%	99%	99%	99%	99%	99%	99%	90%	98%	97%	98%	97%	97%	97%	92%	99%	99%	99%	98%		
USA15452880		8	26	2	42	25	37	28	24	57	17	78	1	21	33	20	14	53	58	88	41	70	97	81	2	2
WWEQ15	**ESSLEMONT GARTH Q15 PV**	+0.00	-3.8	+2.3	-9.9	+5.9	+62	+107	+147	+135	+28	+2.5	-6.6	+69	+8.2	-3.7	-3.8	+0.9	+3.0	-0.40	+40	+0.94	+1.18	+1.04	$230	$394
VTMG67	HBR	38%	70%	60%	92%	89%	86%	80%	80%	77%	69%	74%	52%	73%	67%	69%	69%	64%	70%	62%	82%	69%	69%	68%		
WWEN17		77	89	57	3	85	7	10	6	8	1	33	9	41	27	99	95	23	26	3	2	70	89	51	18	15
WWEL3	**ESSLEMONT LOTTO L3 PV**	-0.23	-4.9	-2.8	-5.7	+4.5	+59	+109	+140	+134	+19	+3.6	-9.0	+90	+14.3	+0.5	+1.3	+1.3	+3.8	+0.28	+16	+1.12	+1.00	+1.16	$280	$456
HIOG18	HBR	36%	95%	87%	99%	99%	99%	99%	99%	98%	98%	98%	78%	97%	95%	96%	96%	94%	96%	90%	98%	98%	98%	97%		
WWEJ8		2	92	92	34	60	13	9	11	8	35	8	1	4	2	36	22	9	13	63	71	92	57	85	1	1
WWEQ24	**ESSLEMONT QUOKKA Q24 PV**	-0.18	+5.6	+0.6	-2.8	+2.5	+45	+84	+112	+70	+23	+4.2	-6.2	+66	+20.2	+1.0	+0.3	+2.3	+2.8	+0.99	+34	+0.76	+0.94	+0.98	$277	$414
WWEN12	HBR	34%	68%	53%	93%	93%	90%	85%	85%	80%	65%	80%	46%	73%	71%	73%	73%	67%	73%	58%	84%	60%	60%	60%		
WWEN7		5	26	73	79	18	74	69	61	90	11	3	14	52	1	25	38	1	31	99	7	32	42	31	1	7
NFSM99	**FARRER MAXWELL M99 PV**	-0.15	-8.9	+0.6	+0.0	+8.2	+68	+115	+156	+151	+15	+3.8	-5.7	+91	+14.2	-3.2	-5.0	+2.1	+2.6	+0.04	+52	+0.78	+0.72	+0.86	$241	$404
BHRH240	HBR	34%	72%	56%	95%	94%	93%	92%	92%	87%	76%	86%	52%	85%	84%	84%	84%	76%	86%	71%	89%	85%	85%	81%		
NFSH124		10	98	73	97	99	2	4	3	3	69	6	22	3	2	97	99	1	35	32	1	36	5	7	11	10
USA18217198	**G A R ASHLAND PV**	+0.04	+1.1	+3.1	-6.5	+3.4	+68	+117	+148	+120	+18	+1.5	-3.0	+82	+13.0	-3.0	-3.1	+1.2	+3.1	-0.08	+6	+1.24	+1.08	+0.84	$265	$427
USA17354178	HBR	28%	94%	78%	99%	99%	99%	99%	99%	97%	95%	98%	55%	93%	92%	91%	90%	86%	91%	73%	98%	99%	99%	96%		
USA16934264		89	64	49	23	34	2	3	5	20	45	72	88	12	3	96	90	11	24	19	97	98	74	5	2	4
USA16295688	**G A R PROPHET SV**	+0.07	+3.6	+4.5	-1.0	+3.6	+66	+106	+132	+81	+24	+0.7	-6.1	+71	+3.4	-0.6	-1.1	-0.8	+4.7	+0.63	+27	+1.02	+0.82	+0.90	$275	$420
USA13009379	HBR	28%	98%	92%	99%	99%	99%	99%	99%	99%	99%	99%	88%	98%	97%	97%	97%	97%	97%	93%	99%	99%	99%	98%		
USA15129456		95	43	34	94	39	3	12	20	79	7	92	15	36	83	62	64	97	5	93	20	82	16	12	1	5
USA17328461	**G A R SURE FIRE SV**	+0.05	+7.2	+3.4	-3.3	+2.3	+50	+91	+110	+75	+18	+4.1	-6.9	+64	+7.7	-0.3	-0.2	+0.8	+3.2	-0.22	+28	+1.14	+0.94	+0.62	$257	$408
USA16205036	HBR	30%	94%	82%	99%	99%	98%	98%	98%	97%	98%	98%	77%	96%	95%	95%	95%	94%	95%	87%	95%	99%	99%	92%		
USA16431932		92	14	46	73	16	49	49	66	86	44	4	6	57	31	55	47	28	22	9	18	94	42	1	4	9
ASRM9	**GATES MENTOR M9 SV**	-0.08	+2.4	+4.3	-3.1	+6.2	+62	+112	+147	+130	+20	+4.1	-7.2	+88	+11.3	-5.0	-5.8	+2.0	+3.0	+0.42	+9	+1.00	+1.16	+1.16	$275	$459
HIOE7	HBR	50%	75%	64%	95%	93%	90%	90%	91%	84%	80%	81%	58%	85%	82%	82%	83%	75%	85%	76%	79%	81%	82%	78%		
ASRK93		35	54	36	76	89	7	6	6	10	29	4	4	6	7	99	99	1	26	79	94	79	87	85	1	1
USA18690054	**GB FIREBALL 672 PV**	+0.03	+2.5	+5.6	-5.1	+2.5	+62	+99	+130	+122	+18	+2.8	-6.2	+78	+14.2	-2.2	-3.8	+1.0	+5.1	-0.21	+7	+0.96	+0.90	+0.86	$269	$443
USA17965471	HBR	25%	89%	65%	99%	99%	98%	98%	98%	95%	89%	98%	47%	88%	88%	86%	84%	78%	87%	61%	98%	99%	98%	92%		
USA18054344		87	53	23	44	18	7	25	24	17	46	23	14	18	2	90	95	18	3	10	96	73	32	7	2	2
QBGH221	**GLENOCH HINMAN H221 SV**	-0.27	+5.3	-2.8	-3.4	+3.1	+54	+92	+126	+115	+21	+1.0	-3.6	+85	+6.1	-2.6	-5.2	+0.6	+5.2	-0.43	+16	+0.88	+0.82	+1.04	$208	$355
BNAD145	HBR	39%	82%	71%	97%	97%	96%	96%	96%	90%	91%	95%	67%	91%	90%	90%	90%	86%	91%	82%	82%	88%	88%	84%		
QBGD80		1	28	92	72	29	33	46	31	26	17	87	78	8	51	94	99	40	3	3	70	58	16	51	41	42
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
QBGK112	**GLENOCH KALLANGUR K112** PV	-0.07	-6.1	-2.3	-4.0	+6.9	+56	+98	+126	+103	+16	+2.0	-7.4	+93	+12.4	+1.1	+3.4	+0.6	+2.2	+0.49	+19	+0.74	+0.76	+0.68	$245	$383
NAQA241	HBR	48%	77%	67%	93%	95%	94%	94%	93%	86%	85%	91%	60%	89%	88%	87%	88%	80%	89%	81%	80%	91%	91%	88%		
QBGG72		40	94	90	62	94	22	27	31	44	57	52	3	3	4	24	5	40	46	84	53	28	9	1	8	20
EETN1	**GVA NEWSWORTHY N1** PV	+0.01	+9.8	+5.8	-9.9	+1.9	+53	+92	+114	+88	+22	+2.3	-6.7	+74	+6.3	-0.1	-3.2	+0.2	+2.6	+0.20	+23	+1.04	+0.90	+0.94	$227	$383
USA17031465	HBR	31%	69%	55%	91%	89%	86%	86%	85%	80%	69%	72%	46%	84%	84%	83%	84%	75%	86%	75%	81%	85%	85%	80%		
VSNL24		81	3	21	3	11	34	45	58	70	16	40	8	28	48	50	91	66	35	53	35	85	32	20	21	20
DKKM41	**HARDHAT H708 MAIMURU J51**	-0.07	+3.8	+3.3	-2.5	+2.3	+45	+89	+116	+96	+11	+1.1	-3.9	+62	+2.7	+1.0	-2.6	-0.4	+6.7	+0.13	+23	+1.04	+1.02	+1.12	$206	$349
NORH708	APR	35%	69%	55%	94%	92%	89%	89%	90%	83%	70%	77%	56%	87%	87%	86%	87%	78%	89%	81%	84%	88%	88%	85%		
DKKJ51		40	41	47	83	16	73	54	52	57	90	84	71	62	88	25	86	91	1	43	34	85	62	76	44	46
DKKQ110	**HARDHAT K522 KODAK M33**	-0.06	+7.2	+9.9	-7.3	+2.5	+47	+87	+116	+106	+16	+2.7	-5.9	+59	+7.3	-1.6	-3.3	+0.8	+3.7	+0.25	+6	+0.64	+0.66	+0.72	$219	$388
NORK522	HBR	39%	68%	55%	86%	86%	77%	75%	75%	74%	66%	74%	47%	68%	65%	67%	67%	63%	69%	59%	56%	75%	76%	73%		
DKKM33		46	14	1	15	18	63	61	53	39	62	26	18	73	36	82	92	28	14	59	96	13	3	1	29	18
DKKN43	**HARDHAT K522 NEBRASKA**	-0.01	+9.6	+8.4	-9.6	+1.9	+61	+109	+144	+132	+16	+5.2	-5.9	+82	+3.2	+0.7	+0.4	-0.5	+0.2	+0.13	+9	+0.76	+0.86	+0.88	$202	$399
NORK522	HBR	37%	73%	59%	93%	94%	92%	91%	88%	83%	70%	84%	50%	87%	85%	85%	86%	77%	88%	78%	88%	90%	90%	85%		
NKLF143		72	4	5	3	11	9	9	8	9	60	1	18	11	84	31	36	93	93	43	93	32	23	9	48	12
DKKP156	**HARDHAT KOD PUNCH M5 P156**	+0.02	+4.8	+5.6	-9.6	+4.0	+57	+95	+119	+95	+16	+2.4	-5.5	+63	+9.1	-1.5	-3.5	+0.9	+1.8	-0.21	+14	+0.98	+1.06	+1.20	$231	$383
DKKM4	HBR	28%	63%	48%	90%	87%	83%	76%	76%	73%	61%	72%	38%	66%	59%	61%	62%	54%	64%	52%	74%	71%	71%	66%		
DKKM5		84	33	23	3	48	20	35	45	58	63	36	27	60	19	81	93	23	58	10	78	77	71	91	17	21
NHZF1023	**HAZELDEAN F1023** SV	-0.17	+5.7	+2.2	-3.5	+2.8	+40	+76	+88	+66	+14	+3.8	-6.5	+51	+9.2	+3.1	+0.0	+0.1	+6.1	+1.31	+5	+0.48	+0.98	+1.04	$233	$366
VTMB1	APR	71%	89%	76%	98%	98%	98%	98%	98%	96%	94%	97%	74%	94%	93%	93%	93%	89%	93%	86%	97%	97%	96%	94%		
NHZB723		6	25	58	70	23	88	86	94	93	74	6	10	88	18	4	43	72	1	99	98	2	52	51	16	33
NHZJ140	**HAZELDEAN JAIPUR J140** SV	-0.07	+8.7	+8.0	-5.0	+1.8	+39	+74	+101	+76	+29	+3.3	-7.6	+69	+5.0	-1.1	-1.2	+1.1	+2.7	+1.10	+53	+0.28	+0.78	+1.00	$218	$365
NAQA241	HBR	49%	93%	79%	98%	98%	98%	98%	98%	97%	97%	98%	82%	95%	94%	94%	94%	92%	94%	87%	98%	98%	98%	95%		
NHZC33		40	7	6	45	10	91	89	82	86	1	12	2	41	65	73	66	14	33	99	1	1	11	38	30	34
NHZK416	**HAZELDEAN KATZEN K416** SV	-0.05	+9.6	+4.7	-11.6	+2.1	+55	+93	+121	+102	+17	+3.5	-8.4	+73	+1.0	+4.3	+2.8	-0.7	+0.8	+0.29	+55	+1.02	+1.00	+1.06	$218	$391
NORE11	APR	48%	88%	75%	98%	98%	97%	97%	97%	95%	94%	97%	72%	93%	92%	90%	92%	87%	93%	86%	97%	95%	95%	92%		
NHZH342		51	4	32	1	13	29	42	41	47	53	9	1	29	96	1	8	96	84	65	1	82	57	58	30	16
NHZM586	**HAZELDEAN M586** SV	-0.16	+8.9	+9.7	-9.3	+2.1	+50	+91	+120	+99	+18	+4.3	-9.7	+73	+7.5	+0.9	+0.8	-0.1	+5.5	+0.98	+44	+0.52	+0.92	+1.10	$281	$468
NHZJ140	APR	36%	83%	64%	98%	98%	96%	96%	96%	94%	88%	95%	62%	92%	90%	90%	90%	84%	91%	82%	93%	92%	92%	88%		
NHZH356		8	6	2	4	13	51	49	43	52	46	3	1	29	34	27	29	81	2	99	1	4	37	70	1	1
NHZM182	**HAZELDEAN MAVERICK M182** SV	-0.11	+3.5	+5.9	-5.4	+2.7	+47	+92	+130	+100	+22	+3.5	-4.7	+78	+9.5	+0.7	+0.6	-0.1	+5.0	+1.24	+67	+0.40	+0.70	+1.02	$227	$382
NHZJ140	APR	35%	76%	58%	97%	96%	95%	95%	96%	86%	73%	95%	53%	80%	80%	81%	80%	75%	80%	63%	93%	91%	90%	85%		
NHZK807		22	44	20	39	21	63	45	24	51	13	9	48	18	16	31	33	81	3	99	1	1	4	45	21	21
NHZP434	**HAZELDEAN P434** SV	-0.01	+10.4	+7.2	-7.7	+1.5	+47	+86	+112	+95	+18	+2.9	-7.3	+74	+4.4	-0.9	-2.9	+0.8	+3.3	+0.69	+48	+0.60	+0.94	+0.90	$227	$391
NHZJ140	APR	40%	72%	57%	97%	95%	94%	93%	93%	84%	71%	90%	55%	78%	76%	78%	77%	73%	77%	63%	89%	84%	84%	78%		
NHZL527		72	2	11	11	8	66	63	60	59	42	21	4	26	72	69	89	28	20	95	1	9	42	12	21	16
NHZQ1229	**HAZELDEAN Q1229** PV	-0.09	-0.3	+3.0	-3.4	+4.6	+59	+106	+136	+96	+23	+4.8	-6.6	+82	+8.6	-0.4	-2.0	+0.1	+4.7	+0.71	+18	+0.80	+0.98	+0.92	$261	$413
NHZF1023	APR	43%	73%	56%	96%	95%	86%	85%	85%	80%	69%	83%	50%	75%	70%	72%	72%	67%	72%	61%	78%	78%	78%	74%		
NHZJ823		31	74	50	72	62	13	12	15	58	12	1	9	11	23	57	78	72	5	95	60	40	52	16	3	7
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident	Name	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
Sire / Dam	Reg.		Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NHZQ319	**HAZELDEAN Q319** PV	-0.11	+6.8	+9.6	-10.3	+2.3	+58	+110	+149	+137	+19	+3.4	-9.6	+90	+5.1	+1.9	+0.7	-0.8	+5.0	+0.26	+28	+0.84	+1.10	+1.06	$276	$492
NHZM586	APR	33%	68%	49%	97%	96%	82%	79%	80%	78%	67%	77%	43%	71%	66%	69%	69%	62%	70%	59%	61%	69%	64%	60%		
NHZL1175		22	17	2	2	16	17	7	5	7	34	11	1	4	64	12	31	97	3	61	19	49	78	58	1	1
DYFN6	**INGLEBRAE FARMS NOBLEMAN**	+0.06	+8.6	+10.3	-7.7	+3.0	+61	+92	+112	+95	+10	+3.5	-3.7	+66	+9.5	+1.3	+1.4	+0.2	+1.8	-0.19	+22	+0.86	+1.12	+1.14	$232	$393
NZE14647008839	HBR	29%	75%	63%	95%	95%	94%	94%	94%	86%	76%	92%	57%	87%	86%	85%	86%	79%	88%	77%	90%	88%	88%	85%		
DYFL18		93	7	1	11	27	10	45	62	58	95	9	76	52	16	20	20	66	58	11	40	54	81	81	16	15
NZE13300018	**KAKAHU PIVOTAL 18004** PV	-0.11	+2.7	+1.3	-8.6	+4.5	+58	+105	+124	+73	+26	+3.4	-7.2	+83	+11.0	+0.9	+1.1	+0.6	+3.6	+0.43	+2	+0.74	+1.00	+1.18	$296	$440
WWEL3	HBR	32%	74%	59%	95%	95%	90%	88%	90%	83%	71%	87%	52%	77%	76%	77%	77%	73%	77%	63%	82%	77%	74%	70%		
NZE13300116373		22	51	67	6	60	18	14	35	88	4	11	4	10	8	27	24	40	15	79	99	28	57	88	1	2
NDIP481	**KENNY'S CREEK PINNACLE P481**	+0.02	+3.8	+1.8	-5.2	+2.9	+52	+92	+118	+75	+19	+0.4	-3.1	+65	+4.9	+1.0	+0.9	-1.2	+5.2	+0.90	+36	+0.82	+0.98	+0.90	$215	$340
USA17354145	HBR	31%	74%	59%	97%	96%	94%	93%	92%	85%	72%	89%	54%	78%	78%	79%	78%	74%	78%	63%	87%	69%	69%	66%		
NDIL236		84	41	62	42	25	42	45	49	86	36	96	86	54	66	25	27	99	3	99	5	45	52	12	33	54
KILK18	**KILLAIN ALASKA K18** PV	+0.06	-9.1	-5.1	+0.0	+7.1	+65	+121	+165	+174	+14	+3.6	-2.4	+89	+5.1	-2.6	-4.3	+0.9	-1.3	-0.75	+24	+1.16	+0.86	+1.02	$119	$280
USA16417285	HBR	31%	69%	56%	88%	86%	85%	85%	86%	81%	77%	76%	47%	83%	83%	82%	83%	80%	85%	72%	68%	77%	77%	66%		
USA15107929		93	98	97	97	96	4	2	1	1	78	8	93	5	64	94	97	23	99	1	30	95	23	45	97	87
KILP1	**KILLAIN RAINMAN P1** PV	-0.07	-1.3	-6.0	-7.0	+4.8	+62	+110	+134	+124	+13	+2.7	-3.8	+73	+8.8	-1.8	-2.3	+1.6	-1.1	-0.23	+1	+0.94	+1.00	+1.04	$192	$340
USA18578965	HBR	29%	65%	47%	94%	90%	88%	83%	84%	79%	69%	69%	38%	73%	68%	71%	70%	65%	71%	52%	79%	67%	67%	49%		
KILM9		40	79	98	17	66	8	7	17	16	82	26	73	29	21	85	82	4	99	9	99	70	57	51	60	54
BLAP130	**KNOWLA PACKER P130** PV	-0.04	+1.1	-0.9	-3.7	+5.3	+59	+105	+144	+126	+10	+1.2	-5.6	+88	+7.7	-0.2	-0.5	+0.7	+2.9	+0.25	+24	+0.86	+1.26	+1.00	$243	$409
SRKK306	HBR	31%	67%	54%	91%	89%	85%	83%	84%	79%	69%	82%	48%	73%	70%	72%	72%	67%	72%	61%	76%	75%	75%	71%		
BLAK113		57	64	83	67	76	14	13	7	13	95	81	24	6	31	52	53	34	28	59	29	54	95	38	9	8
BLAP91	**KNOWLA PEPPER P91** PV	-0.08	+5.8	+4.1	-6.2	+4.1	+62	+121	+156	+163	+12	+1.8	-8.4	+83	+8.8	+1.9	+1.5	+0.6	+2.7	+0.47	-6	+1.00	+1.06	+0.94	$280	$506
HIOG18	HBR	36%	72%	60%	95%	94%	91%	88%	89%	83%	72%	87%	56%	77%	75%	77%	77%	72%	77%	64%	86%	86%	87%	83%		
BLAL06		35	24	38	27	50	8	2	3	1	86	60	1	10	21	12	19	40	33	83	99	79	71	20	1	1
VLYR1549	**LAWSONS ASHLAND R1549** SV	+0.02	-3.0	-2.4	-6.1	+4.4	+65	+112	+144	+125	+14	+0.4	-0.8	+82	+15.4	-2.9	-3.4	+1.3	+4.0	+0.21	+15	+1.10	+0.94	+0.78	$232	$373
USA18217198	HBR	29%	69%	55%	88%	86%	78%	75%	76%	76%	68%	70%	40%	68%	65%	67%	67%	62%	68%	55%	58%	69%	69%	66%		
VLYP251		84	87	90	28	57	4	5	8	14	74	96	99	11	1	96	92	9	10	54	75	91	42	2	16	27
VLYN131	**LAWSONS CHARLIE N131** SV	+0.09	-4.0	-2.5	-4.7	+5.6	+74	+134	+167	+133	+24	+3.5	-5.2	+81	+6.0	-1.9	-2.2	+0.1	+1.2	+0.33	+30	+0.86	+0.76	+0.88	$242	$409
USA16295688	HBR	30%	76%	66%	95%	96%	93%	92%	89%	84%	72%	86%	56%	85%	84%	84%	85%	77%	86%	76%	90%	91%	90%	86%		
VLYL710		97	90	90	51	81	1	1	1	9	6	9	34	13	52	87	81	72	75	69	13	54	9	9	10	8
VLYL483	**LAWSONS LINKEDIN L483** SV	-0.12	+5.4	-10.0	-1.3	+3.8	+58	+108	+152	+137	+28	+4.1	-4.9	+105	+9.8	-0.6	+2.3	+0.4	+1.5	-0.30	+22	+0.98	+0.74	+0.88	$213	$384
HKFJ5	HBR	38%	84%	73%	98%	98%	97%	97%	96%	94%	94%	94%	65%	92%	88%	86%	90%	83%	90%	79%	87%	84%	84%	80%		
VLYH221		18	27	99	92	44	17	10	4	7	2	4	42	1	14	62	11	53	67	6	40	77	7	9	36	20
VLYQ44	**LAWSONS MIRACULOUS Q44** PV	-0.08	+4.0	-0.7	-8.2	+3.2	+49	+91	+112	+98	+13	+2.7	-4.0	+49	+21.5	+0.9	+0.4	+1.9	+2.6	+0.95	+27	+0.96	+0.90	+0.96	$246	$394
VLYM518	HBR	31%	72%	57%	97%	95%	90%	90%	87%	82%	70%	87%	49%	76%	76%	77%	77%	72%	76%	61%	57%	70%	70%	68%		
VLYK914		35	40	82	8	30	55	49	62	53	84	26	68	91	1	27	36	2	35	99	21	73	32	25	8	14
VLYM518	**LAWSONS MOMENTOUS M518**	-0.02	-2.8	-4.0	-5.8	+4.0	+51	+93	+114	+86	+24	+2.7	-2.7	+50	+13.7	-0.9	-0.7	+0.6	+5.8	+0.87	+40	+0.88	+0.94	+1.06	$223	$338
USA17354145	HBR	34%	96%	83%	99%	99%	99%	99%	99%	98%	97%	98%	72%	95%	94%	94%	94%	91%	94%	85%	98%	98%	98%	97%		
VLYH229		68	86	95	33	48	47	41	58	72	7	26	91	90	2	69	57	40	1	99	3	58	42	58	25	55
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
VLYE398	**LAWSONS NADAL E398** SV	+0.44	-7.5	-3.8	-1.7	+5.9	+56	+93	+109	+132	-8	+1.2	-5.8	+66	+12.5	-0.4	-1.4	+1.7	+0.6	+0.35	+0	+0.80	+0.80	+0.90	$186	$330
USA15464043	HBR	75%	88%	76%	98%	98%	97%	97%	97%	95%	96%	95%	65%	93%	91%	91%	91%	87%	91%	82%	84%	83%	83%	77%		
VLYB887		99	96	94	90	85	23	42	68	10	99	81	20	50	4	57	69	3	88	72	99	40	13	12	66	62
VLYP316	**LAWSONS PROPHET P316** PV	+0.00	+5.2	+4.0	-2.3	+3.3	+58	+93	+112	+70	+18	+1.0	-5.4	+69	+10.4	-3.5	-3.8	+1.3	+3.5	+0.28	+29	+0.66	+0.68	+0.82	$274	$407
USA16295688	HBR	31%	72%	60%	91%	95%	88%	86%	83%	79%	70%	73%	54%	74%	72%	74%	74%	70%	74%	63%	72%	80%	80%	75%		
VLYM527		77	29	39	85	32	16	42	61	90	43	87	29	41	11	98	95	9	17	63	15	15	3	4	1	9
CHKM122	**MANEROO PARTNERSHIP M122**	-0.02	+3.6	-4.5	-3.9	+3.7	+40	+76	+101	+95	+13	+1.8	-4.5	+55	+10.1	+1.8	+3.3	+0.5	+2.6	+0.37	+6	+1.22	+1.10	+0.96	$183	$314
HKFJ5	APR	30%	73%	59%	92%	92%	89%	88%	87%	82%	74%	77%	52%	82%	81%	82%	82%	74%	84%	71%	73%	79%	79%	75%		
CHKE251		68	43	96	64	41	89	86	82	59	81	60	54	80	13	14	5	47	35	74	97	97	78	25	69	72
NZE14647010	**MATAURI OUTLIER F031** SV	+0.01	-3.2	+2.1	-4.6	+6.7	+54	+102	+137	+145	+16	+2.2	-3.1	+70	+0.2	+3.1	+1.9	-0.7	+0.9	+0.08	+14	+0.78	+1.18	+1.28	$131	$288
NZE14647008839	HBR	26%	95%	87%	98%	99%	98%	98%	98%	98%	98%	98%	84%	96%	95%	96%	96%	94%	95%	88%	93%	92%	93%	89%		
NZE14647108860		81	87	59	52	93	32	20	14	4	57	44	86	38	98	4	15	96	82	37	77	36	89	98	95	84
VRTP6	**MERRIBROOK PROGRESSION OF**	-0.07	+9.9	+6.9	-11.6	+1.1	+58	+103	+122	+95	+19	+0.3	-3.5	+78	+6.7	-0.3	-2.9	+1.1	+0.7	-0.15	+31	+0.90	+0.92	+1.06	$226	$381
USA18219911	HBR	30%	68%	53%	90%	87%	85%	84%	84%	79%	68%	72%	45%	81%	82%	81%	82%	74%	84%	71%	76%	81%	81%	77%		
VRTJ2		40	3	13	1	6	18	17	39	59	30	96	80	18	43	55	89	14	86	13	12	62	37	58	21	21
NMMF159	**MILLAH MURRAH DOC F159** PV	+0.00	-7.0	+3.6	-6.1	+6.9	+58	+108	+148	+129	+28	+2.5	-5.5	+97	+5.0	+1.2	+2.1	+0.3	+0.3	-0.16	+17	+0.96	+1.12	+1.08	$190	$340
NMMD78	HBR	67%	89%	78%	98%	98%	97%	97%	97%	95%	95%	96%	69%	93%	91%	92%	92%	88%	92%	82%	94%	88%	88%	84%		
NHZY275		77	96	44	28	94	16	10	5	11	1	33	27	2	65	22	13	60	92	13	64	73	81	65	61	54
NMMG18	**MILLAH MURRAH HIGHLANDER**	-0.10	+0.5	-3.9	-3.7	+4.5	+49	+88	+110	+84	+22	+4.5	-3.5	+76	+10.6	-3.3	-1.8	+2.0	-0.1	+0.05	+11	+0.74	+0.88	+1.00	$185	$303
NZE12170004408	HBR	68%	82%	70%	97%	95%	93%	93%	93%	90%	84%	89%	63%	90%	89%	89%	90%	83%	91%	82%	90%	84%	84%	79%		
NMMD85		26	69	95	67	60	54	58	66	76	15	2	80	22	10	98	76	1	96	33	89	28	27	38	66	78
NMMK35	**MILLAH MURRAH KINGDOM K35**	-0.02	-13.2	-7.6	-2.6	+9.0	+55	+99	+138	+148	+11	+0.8	-5.6	+63	+7.6	+0.1	+0.4	+1.0	-0.6	-0.70	+26	+0.80	+1.26	+1.16	$137	$270
NZE469	HBR	36%	95%	86%	99%	99%	98%	98%	98%	97%	98%	98%	79%	96%	94%	95%	95%	93%	94%	88%	97%	96%	96%	94%		
NMMG41		68	99	99	82	99	28	24	12	3	92	90	24	60	33	45	36	18	99	1	24	40	95	85	94	90
NMMK42	**MILLAH MURRAH KLOONEY K42**	-0.01	+5.8	+3.5	-6.7	+5.7	+47	+86	+107	+92	+24	+2.1	-6.9	+64	+5.8	-1.3	-3.5	+1.1	+2.5	+0.16	+18	+0.82	+0.92	+1.02	$217	$365
NGMT30	HBR	37%	96%	87%	99%	99%	98%	99%	98%	98%	98%	98%	79%	96%	95%	95%	95%	93%	95%	87%	98%	96%	97%	94%		
NMMH4		72	24	45	21	83	64	62	71	63	7	48	6	57	55	77	93	14	38	47	61	45	37	45	31	34
NMML133	**MILLAH MURRAH LOCH UP L133**	-0.14	+4.7	+3.5	-6.0	+5.0	+58	+99	+132	+106	+26	+1.9	-1.8	+79	+1.9	-2.3	-4.1	-0.5	+1.7	-0.27	+35	+0.70	+1.06	+1.14	$160	$300
USA17091363	HBR	31%	94%	85%	99%	99%	98%	98%	98%	98%	98%	98%	75%	96%	94%	95%	95%	93%	95%	87%	98%	97%	97%	95%		
NMMH49		12	34	45	30	71	15	24	20	40	3	56	96	17	93	91	96	93	61	7	6	21	71	81	85	79
NMMM308	**MILLAH MURRAH MILESTONE**	+0.07	+6.2	+5.2	-7.5	+4.7	+45	+81	+95	+80	+19	+2.4	-6.1	+48	+5.6	+2.1	+3.3	-0.1	+2.6	+0.17	+22	+0.88	+0.98	+1.20	$213	$356
NZE14647008839	HBR	34%	78%	66%	97%	97%	96%	96%	95%	91%	83%	94%	59%	87%	86%	86%	86%	80%	87%	75%	93%	83%	84%	81%		
NMMH331		95	21	27	13	64	73	77	89	80	32	36	15	92	57	11	5	81	35	49	36	58	52	91	35	41
NJWH194	**MILWILLAH ELEVATOR H194** SV	-0.12	-9.2	-9.6	-0.7	+8.0	+47	+96	+124	+152	+19	+1.3	-1.6	+50	+3.8	-2.2	+0.9	+0.9	-1.3	-0.38	+43	+0.20	+0.44	+0.86	$71	$199
WDCE11	HBR	32%	74%	65%	92%	92%	90%	90%	90%	85%	80%	84%	61%	86%	85%	85%	86%	80%	87%	77%	79%	87%	86%	80%		
VTMX64		18	98	99	95	99	64	34	34	2	38	78	97	90	79	90	27	23	99	4	2	1	1	7	99	99
NJWH283	**MILWILLAH ELSOM H283** PV	-0.06	+1.3	-3.6	-2.5	+3.5	+44	+79	+115	+97	+20	+1.8	-1.9	+71	+10.7	-2.1	-2.6	+1.7	+1.2	+0.40	+30	+0.76	+0.82	+1.06	$158	$274
NJWF189	HBR	50%	80%	66%	97%	97%	96%	96%	95%	90%	92%	93%	60%	91%	89%	90%	90%	85%	91%	82%	84%	89%	89%	85%		
NJWE51		46	63	94	83	37	79	81	55	55	24	60	96	35	10	89	86	3	75	77	13	32	16	58	86	89
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NJWE158	**MILWILLAH LAD E158 SV**	+0.05	-2.5	-6.8	-7.7	+8.1	+43	+82	+109	+111	+6	+2.0	-5.5	+45	+9.3	-1.0	-4.5	+1.3	+2.6	+0.19	+12	+0.76	+0.82	+0.72	$162	$291
NZEE230	HBR	76%	82%	73%	95%	97%	96%	96%	96%	92%	95%	92%	62%	91%	90%	90%	90%	85%	91%	80%	86%	79%	79%	72%		
VTMX114		92	85	99	11	99	80	73	68	32	99	52	27	95	18	71	97	9	35	51	85	32	16	1	84	83
BWFQ33	**MOOGENILLA QUINELLA Q33 PV**	-0.12	+0.7	+9.3	-5.8	+4.1	+59	+109	+140	+85	+24	+2.8	-3.8	+90	+10.9	-1.4	-1.1	+0.3	+4.1	+0.31	+39	+0.80	+0.98	+0.88	$265	$408
USA18181757	HBR	29%	76%	57%	98%	98%	97%	85%	83%	79%	68%	76%	43%	74%	65%	68%	67%	61%	69%	57%	93%	69%	69%	65%		
BWFN9		18	67	2	33	50	13	8	11	75	8	23	73	4	9	79	64	60	9	67	3	40	52	9	2	8
EGRM39	**MOSQUITO CREEK MAXIMUS**	-0.08	+5.4	+5.9	-7.3	+5.0	+60	+110	+140	+131	+19	+2.0	-8.0	+79	+6.9	+0.8	+0.2	+0.5	+2.2	+0.05	+9	+0.90	+0.92	+0.94	$264	$459
HIOG18	HBR	33%	72%	61%	91%	94%	89%	92%	87%	83%	76%	90%	52%	78%	79%	80%	79%	75%	78%	62%	79%	66%	66%	64%		
EGRD9		35	27	20	15	71	11	7	10	10	36	52	1	16	41	29	40	47	46	33	93	62	37	20	3	1
EGRQ53	**MOSQUITO CREEK QUALITY Q53**	-0.01	+10.4	+10.1	-5.9	-0.1	+58	+105	+140	+108	+26	+1.8	-4.6	+84	+2.7	+0.3	-0.6	-0.3	+1.6	-0.13	+31	+1.00	+1.12	+1.06	$220	$394
USA18463791	HBR	28%	67%	50%	87%	87%	83%	83%	80%	77%	66%	80%	42%	71%	70%	73%	72%	67%	71%	53%	65%	69%	69%	61%		
EGRG2		72	2	1	31	2	18	14	10	37	3	60	51	8	88	40	55	88	64	15	13	79	81	58	28	14
CSWP036	**MURDEDUKE BLACK PEARL**	-0.12	+2.0	+1.2	-8.7	+5.4	+48	+90	+127	+112	+18	+3.3	-4.4	+55	+3.0	-0.2	-1.5	-0.8	+5.9	+0.59	+13	+0.82	+1.16	+1.18	$188	$337
USA17236055	HBR	35%	74%	63%	95%	95%	93%	93%	89%	84%	73%	87%	57%	87%	87%	86%	87%	79%	89%	79%	93%	92%	92%	88%		
CSWL123		18	57	68	6	78	62	51	29	30	39	12	57	82	86	52	71	97	1	91	84	45	87	88	64	56
CSWH211	**MURDEDUKE HUSSAR H211 PV**	-0.17	+1.5	+2.8	-9.3	+6.5	+63	+124	+163	+170	+13	+3.9	-4.2	+88	+1.2	-1.8	-4.9	+0.4	-0.1	-0.80	+31	+0.54	+0.84	+1.02	$162	$360
VTME343	HBR	34%	83%	74%	97%	96%	95%	95%	95%	91%	90%	93%	65%	90%	89%	89%	90%	84%	91%	82%	95%	95%	95%	93%		
CSWE175		6	61	52	4	92	7	1	1	1	81	5	63	5	95	85	98	53	96	1	12	5	20	45	84	37
CSWK428	**MURDEDUKE KICKING K428 PV**	-0.15	+9.0	+9.2	-8.2	+1.9	+49	+95	+119	+91	+24	+3.7	-5.3	+67	+1.4	-0.1	-2.3	+0.3	+0.5	-0.10	+44	+0.90	+1.02	+1.20	$186	$345
VTME343	HBR	34%	86%	74%	98%	98%	97%	97%	96%	94%	92%	97%	66%	92%	91%	88%	91%	85%	92%	84%	97%	97%	97%	95%		
CSWE175		10	6	3	8	11	56	36	45	65	7	7	32	48	95	50	82	60	89	17	1	62	62	91	65	50
CSWQ011	**MURDEDUKE QUARTERBACK**	+0.00	+7.7	+2.6	-10.1	+2.7	+54	+102	+137	+111	+24	+4.4	-5.6	+76	+6.5	+1.5	+1.7	-0.8	+5.1	+0.75	+25	+0.76	+0.98	+1.02	$239	$414
VLYM518	HBR	34%	81%	62%	99%	99%	98%	98%	97%	86%	72%	97%	54%	80%	84%	83%	83%	77%	82%	65%	98%	94%	94%	91%		
CSWN026		77	11	54	2	21	32	19	14	31	7	2	24	22	46	17	17	97	3	96	27	32	52	45	12	6
NURG20	**MURRAY EL GRANDO G20 SV**	+0.13	-13.2	+2.2	-6.9	+7.8	+67	+113	+157	+142	+13	+3.5	-5.3	+92	+16.0	-5.8	-7.0	+2.1	+2.4	-0.43	+20	+0.90	+0.78	+0.86	$220	$363
USA13058662	HBR	72%	87%	77%	97%	97%	96%	96%	96%	94%	93%	92%	72%	92%	91%	90%	91%	86%	91%	82%	94%	94%	93%	91%		
VTMD113		99	99	58	18	98	3	5	2	5	83	9	32	3	1	99	99	1	41	3	47	62	11	7	28	35
NURM208	**MURRAY GENESIS M208 PV**	-0.08	+3.1	+5.8	-6.5	+5.2	+53	+101	+130	+107	+19	+3.7	-6.4	+86	+15.5	-0.1	-2.7	+1.7	+0.9	+1.21	+6	+0.98	+1.06	+0.68	$243	$409
SMPG357	HBR	33%	75%	63%	92%	93%	91%	91%	91%	85%	81%	79%	60%	87%	86%	83%	87%	81%	87%	78%	86%	90%	90%	87%		
NURK45		35	48	21	23	74	36	21	24	37	34	7	11	7	1	50	87	3	82	99	97	77	71	1	9	8
NURN70	**MURRAY KODAK N70 PV**	+0.00	+4.0	+6.0	-7.2	+4.4	+59	+102	+136	+137	+14	+5.1	-6.4	+80	+9.7	-1.6	-2.1	+0.8	+3.9	-0.40	+23	+0.92	+0.88	+0.94	$245	$436
NORK522	HBR	38%	75%	58%	97%	97%	94%	94%	93%	86%	73%	91%	54%	88%	87%	86%	87%	79%	89%	80%	91%	91%	91%	87%		
NURJ53		77	40	19	15	57	14	19	15	7	76	1	11	15	15	82	80	28	12	3	35	66	27	20	8	2
NURM204	**MURRAY PROCEED M204 PV**	-0.23	-8.0	+6.6	-4.5	+4.5	+61	+109	+139	+123	+20	+3.3	-3.7	+88	+13.8	-4.7	-4.8	+0.6	+6.8	+0.11	+14	+0.96	+0.78	+0.92	$234	$379
USA16956101	HBR	33%	78%	64%	95%	95%	93%	93%	92%	86%	78%	85%	59%	89%	88%	85%	89%	83%	90%	81%	91%	89%	90%	86%		
NURJ43		2	97	15	54	60	9	8	11	16	25	12	76	5	2	99	98	40	1	40	77	73	11	16	15	23
NURP54	**MURRAY TWINHEARTS P54 PV**	+0.04	-0.1	+3.3	-6.7	+7.4	+74	+128	+170	+161	+22	+2.3	-4.3	+107	+8.3	-1.7	-3.6	+0.6	+3.0	+0.27	+17	+0.88	+1.24	+0.92	$251	$444
USA16350631	HBR	31%	69%	57%	92%	90%	87%	87%	85%	82%	71%	77%	50%	83%	83%	83%	83%	75%	85%	74%	81%	87%	87%	82%		
NURM13		89	72	47	21	97	1	1	1	1	13	40	60	1	26	84	94	40	26	62	65	58	94	16	6	2
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident	Name	Sire / Dam	Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
					Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
SFNL21	**NAMPARA LIBERTY L21** SV			-0.03	-5.0	-1.3	-6.5	+8.9	+67	+112	+152	+168	+19	+3.0	-1.6	+84	+7.2	-2.2	-0.9	+1.7	-2.7	-0.60	+19	+0.84	+0.84	+1.00	$140	$303
NZE10322010609	HBR			28%	84%	68%	98%	98%	96%	97%	97%	94%	91%	96%	58%	92%	90%	87%	91%	84%	92%	84%	94%	91%	92%	87%		
SFNH65				62	92	85	23	99	3	5	4	1	33	18	97	9	37	90	60	3	99	1	54	49	20	38	93	78
WLGP5	**NARANDA PIMP P5** SV			-0.06	+11.3	+8.9	-11.6	+1.9	+52	+100	+130	+97	+23	+1.9	-3.5	+68	+5.2	+1.3	+0.9	-0.4	+3.4	+0.74	+4	+0.64	+0.76	+1.06	$222	$383
USA18229425	APR			28%	70%	53%	96%	93%	90%	87%	85%	80%	69%	74%	44%	74%	68%	70%	70%	65%	70%	55%	84%	78%	78%	72%		
WLGM24				46	1	3	1	11	42	24	24	55	12	56	80	46	63	20	27	91	19	96	98	13	9	58	26	21
SKOJ6	**NEWLYN PARK EMPEROR J6** PV			+0.00	-10.7	-6.4	-8.0	+8.3	+69	+116	+154	+161	+9	+2.0	-5.3	+87	+7.5	-1.1	-1.5	+1.2	+0.1	-0.57	+27	+1.08	+0.76	+0.80	$189	$346
VTME343	HBR			36%	74%	65%	92%	90%	88%	88%	89%	85%	77%	78%	61%	85%	84%	84%	85%	78%	86%	76%	78%	85%	85%	80%		
NZCE115				77	99	98	9	99	2	3	3	1	97	52	32	6	34	73	71	11	94	1	20	89	9	3	63	49
NZE21095018	**NGAPUTAHI P206** SV			-0.20	+10.8	+7.0	-1.5	-0.2	+41	+82	+96	+64	+28	+2.7	-6.3	+60	+7.3	+0.7	+0.0	+1.0	+3.5	+0.61	+21	+0.96	+1.10	+1.10	$240	$380
HIOE7	HBR			51%	74%	64%	92%	95%	92%	90%	88%	83%	72%	87%	59%	78%	77%	79%	78%	74%	77%	67%	82%	73%	73%	71%		
NZE21095112H49				3	2	12	91	2	87	74	88	94	2	26	12	68	36	31	43	18	17	92	42	73	78	70	11	23
USA16981588	**PA FULL POWER 1208** PV			-0.05	-5.7	-4.8	-5.7	+3.7	+52	+98	+119	+77	+14	+1.9	-3.1	+68	+12.6	-1.5	+0.5	+0.8	+3.4	+0.80	+25	+1.24	+0.96	+0.70	$223	$328
USA16381311	HBR			35%	93%	81%	99%	98%	98%	98%	98%	97%	97%	98%	71%	95%	94%	94%	94%	91%	94%	85%	98%	98%	97%	90%		
USA16408070				51	94	96	34	41	42	28	46	84	74	56	86	45	4	81	34	28	19	98	27	98	47	1	25	63
USA17585042	**PA RANCH HOUSE 349** PV			-0.04	+6.6	+3.1	-5.7	+4.0	+51	+89	+113	+95	+26	+0.0	-2.6	+61	+6.0	-0.2	+2.0	+0.4	+1.8	+0.69	-4	+1.50	+1.40	+0.92	$200	$338
USA16651533	HBR			29%	87%	69%	98%	98%	97%	97%	97%	94%	95%	96%	62%	93%	93%	92%	92%	89%	93%	83%	86%	93%	93%	89%		
USA17193464				57	18	49	34	48	47	53	58	59	3	98	92	66	52	52	14	53	58	95	99	99	99	16	51	56
HKFE27	**PARINGA IRON ORE E27** PV			-0.17	+8.2	+1.9	-8.0	+2.0	+37	+71	+94	+90	+15	+2.1	-6.9	+67	+8.3	+0.9	+1.5	+1.5	+1.7	+0.40	+40	+0.86	+0.96	+0.98	$202	$350
VTMA149	HBR			79%	81%	69%	97%	96%	94%	94%	94%	90%	91%	91%	63%	90%	89%	89%	90%	83%	90%	82%	85%	84%	84%	79%		
FAFC1				6	9	61	9	12	94	93	89	67	64	48	6	49	26	27	19	5	61	77	3	54	47	31	48	45
SMPG357	**PATHFINDER GENESIS G357** PV			-0.07	+2.5	+5.3	-7.8	+6.7	+62	+109	+147	+140	+26	+4.3	-5.6	+96	+14.0	+0.9	-1.4	+1.4	+0.2	+0.63	+29	+0.86	+1.04	+0.76	$231	$415
VTMB1	HBR			36%	96%	87%	99%	99%	99%	99%	99%	98%	98%	98%	82%	97%	95%	96%	96%	94%	95%	89%	98%	97%	98%	96%		
SMPD245				40	53	26	11	93	8	8	6	5	3	3	24	2	2	27	69	7	93	93	15	54	66	1	18	6
SMPK22	**PATHFINDER KOMPLETE K22** SV			-0.04	+11.4	+10.2	-9.7	+0.7	+39	+73	+92	+40	+27	+3.0	-5.8	+49	+6.8	+4.2	+5.5	+0.1	+2.3	+0.45	+28	+0.48	+0.84	+0.68	$235	$359
SMPG357	HBR			35%	91%	74%	99%	98%	98%	98%	98%	96%	96%	97%	69%	94%	93%	93%	93%	92%	93%	85%	96%	96%	96%	94%		
SMPH756				57	1	1	3	4	90	91	92	99	2	18	20	91	42	1	1	72	43	81	19	2	20	1	14	39
SMPM651	**PATHFINDER MASTERPIECE**			-0.01	+1.1	+4.1	-5.7	+5.5	+59	+106	+137	+142	+20	+3.3	-8.0	+62	+9.7	-2.2	-3.5	+1.4	+2.0	-0.22	+48	+0.96	+1.18	+1.14	$240	$429
VTMG67	HBR			37%	75%	65%	90%	94%	91%	91%	91%	85%	81%	85%	60%	86%	84%	84%	85%	78%	86%	76%	70%	77%	77%	74%		
SMPH66				72	64	38	34	79	13	13	14	5	26	12	1	62	15	90	93	7	52	9	1	73	89	81	11	3
SMPM558	**PATHFINDER MAXIMUS M558** PV			-0.07	-2.5	+2.1	-6.9	+6.1	+61	+101	+132	+135	+25	+4.7	-8.4	+56	+9.4	-2.1	-0.5	+0.6	+2.9	-0.27	+48	+0.92	+1.04	+0.88	$238	$413
VTMG67	HBR			36%	80%	68%	96%	96%	95%	94%	95%	89%	89%	92%	62%	90%	88%	86%	89%	85%	89%	80%	77%	78%	78%	74%		
SMPH458				40	85	59	18	88	10	22	21	8	6	2	1	78	17	89	53	40	28	7	1	66	66	9	12	7
SMPN56	**PATHFINDER NUCLEUS N56** SV			-0.13	+4.3	+3.2	-4.0	+5.5	+62	+108	+140	+125	+16	+4.2	-6.4	+81	+13.6	+0.8	+0.9	+1.0	+1.7	+0.32	+19	+0.74	+0.80	+0.78	$266	$449
HIOG18	HBR			34%	74%	60%	96%	96%	94%	94%	94%	87%	80%	92%	55%	90%	89%	88%	89%	80%	90%	83%	84%	85%	85%	81%		
SMPL179				15	37	48	62	79	7	9	11	14	58	3	11	13	2	29	27	18	61	68	51	28	13	2	2	1
SMPP516	**PATHFINDER PHAT CAT P516** SV			-0.02	+3.2	+1.6	-8.7	+5.6	+55	+95	+122	+95	+27	+4.9	-8.7	+61	+9.5	-1.9	-0.4	+0.3	+4.4	+0.17	+43	+0.80	+1.12	+1.06	$269	$429
SMPM558	HBR			33%	69%	54%	96%	94%	92%	91%	90%	82%	70%	85%	48%	77%	73%	75%	75%	70%	75%	61%	86%	73%	74%	68%		
SMPJ282				68	47	64	6	81	27	35	39	59	2	1	1	65	16	87	51	60	7	49	2	40	81	58	2	3
	Breed Average EBVs			**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident	Name	Sire / Dam	Reg.	Shear Force	Calv-Ease Dir	Calv-Ease Dtrs	Birth GL	Birth BW	Growth 200	Growth 400	Growth 600	Maternal MCW	Maternal Milk	Fert SS	Fert DC	Carcase CW	Carcase EMA	Carcase Rib	Carcase P8	Carcase RBY	Carcase IMF	Feed NFI-F	Temp Doc	Structural Claw	Structural Angle	Structural Leg	Selection Index $A	Selection Index $A-L
SMPP41	**PATHFINDER PREMIUM P41** [SV]			-0.12	+1.7	+7.0	-5.1	+4.8	+59	+106	+142	+129	+23	+4.1	-8.3	+57	+4.2	-0.2	+0.1	-0.2	+3.8	+0.16	+25	+0.84	+1.18	+1.20	$250	$438
VTMG67	APR			38%	73%	62%	94%	94%	91%	91%	90%	84%	73%	86%	56%	78%	76%	77%	77%	73%	77%	65%	81%	69%	69%	69%		
SMPM53				18	60	12	44	66	14	12	9	12	9	4	1	77	75	52	41	85	13	47	28	49	89	91	6	2
SMPQ1357	**PATHFINDER QUEST Q1357** [PV]			-0.14	-0.2	-2.2	-6.6	+5.4	+65	+122	+166	+168	+18	+2.3	-5.5	+91	+7.2	-0.5	-1.8	+0.5	+3.5	+0.43	+19	+0.84	+0.76	+0.96	$236	$433
NORL519	HBR			31%	72%	60%	91%	94%	84%	79%	80%	78%	69%	73%	50%	72%	66%	68%	68%	63%	69%	59%	58%	69%	69%	69%		
SMPM18				12	73	89	22	78	4	2	1	1	44	40	27	4	37	60	76	47	17	79	54	49	9	25	14	3
NZE41-97	**PINEBANK WAIGROUP 41/97** [#]			+0.18	+4.3	-4.8	-4.0	+3.6	+37	+63	+73	+48	+19	+0.8	-3.1	+17	+4.9	+1.4	+0.5	+0.8	+1.1	-0.14	+26	+0.34	+0.94	+1.00	$150	$234
NZE53195	HBR			80%	95%	88%	98%	98%	98%	98%	98%	98%	98%	97%	87%	96%	95%	96%	96%	94%	95%	89%	90%	87%	87%	81%		
NZE63988				99	37	96	62	39	94	98	99	99	36	90	86	99	66	19	34	28	77	14	25	1	42	38	89	96
WQCQ47	**QUANDEN SPRINGS**			-0.06	+11.0	+8.7	-9.7	-1.4	+47	+93	+126	+104	+29	+5.0	-4.4	+48	+11.9	+0.3	-0.1	+0.3	+4.1	+0.41	+19	+1.08	+1.06	+1.06	$223	$394
VLYM518	HBR			32%	70%	56%	88%	89%	83%	79%	81%	77%	69%	76%	46%	71%	67%	69%	69%	64%	70%	59%	76%	70%	74%	70%		
VLYM1690				46	1	4	3	1	63	41	30	42	1	1	57	93	5	40	45	60	9	78	53	89	71	58	24	14
NORE11	**RENNYLEA EDMUND E11** [PV]			-0.01	+10.0	+0.8	-7.3	+1.1	+34	+65	+84	+54	+16	+1.9	-7.3	+51	+4.9	+3.4	+1.4	-0.3	+4.3	+0.78	+25	+0.56	+1.00	+1.10	$202	$322
NGMY145	HBR			80%	99%	97%	99%	99%	99%	99%	99%	99%	99%	99%	94%	98%	98%	98%	98%	98%	98%	95%	99%	99%	99%	99%		
VLYY5				72	3	71	15	6	97	97	96	97	58	56	4	89	66	3	20	88	8	97	26	6	57	70	49	67
NORG255	**RENNYLEA G255** [PV]			-0.41	-11.9	-8.1	-3.6	+4.6	+51	+95	+130	+127	+21	+0.8	-3.7	+90	+7.8	-0.3	-3.2	+0.7	+4.7	-0.11	+13	+1.20	+0.94	+0.86	$161	$276
BNAD145	APR			42%	94%	86%	98%	98%	98%	98%	98%	98%	98%	97%	81%	96%	95%	95%	96%	93%	94%	90%	97%	94%	94%	92%		
NORC490				1	99	99	69	62	44	36	24	13	20	90	76	4	30	55	91	34	5	16	83	97	42	7	84	88
NORH708	**RENNYLEA H708** [PV]			-0.08	-4.5	-0.4	+1.2	+4.9	+50	+102	+132	+131	+9	+2.6	-3.9	+72	+13.1	-3.5	-6.4	+1.9	+7.1	+0.71	+26	+0.72	+0.74	+1.00	$232	$385
NORC511	APR			46%	91%	80%	98%	98%	98%	98%	98%	97%	95%	97%	75%	95%	94%	94%	94%	91%	94%	91%	98%	95%	95%	93%		
NORE176				35	91	80	99	68	49	18	20	10	96	29	71	33	3	98	99	2	1	95	23	24	7	38	16	19
NORK835	**RENNYLEA K835** [PV]			-0.13	-3.7	-5.1	-2.0	+6.7	+51	+91	+117	+98	+13	+3.2	-5.3	+56	+8.8	+0.7	-1.1	+0.2	+4.1	-0.13	+15	+0.64	+1.12	+1.10	$202	$328
NORG420	APR			38%	81%	65%	98%	95%	95%	95%	95%	90%	87%	89%	60%	89%	88%	87%	88%	84%	89%	78%	90%	88%	88%	85%		
NORH514				15	89	97	88	93	46	48	50	53	82	14	32	80	21	31	64	66	9	15	76	13	81	70	48	63
NORK522	**RENNYLEA KODAK K522** [SV]			+0.05	+10.6	+10.7	-5.4	+1.2	+46	+85	+111	+109	+10	+4.6	-6.5	+57	+4.3	+3.4	+1.8	-0.4	+4.1	+0.36	+7	+0.64	+0.82	+0.98	$212	$393
NORE11	HBR			50%	92%	79%	99%	99%	98%	98%	98%	97%	96%	98%	71%	94%	93%	93%	93%	91%	93%	86%	95%	96%	96%	95%		
NORF810				92	2	1	39	6	69	67	63	35	94	2	10	77	74	3	16	91	9	73	96	13	16	31	36	15
NORL508	**RENNYLEA L508** [PV]			-0.11	+2.1	+8.5	-6.4	+2.5	+46	+86	+117	+91	+26	+1.3	-5.6	+58	+6.2	+1.6	-0.7	-0.3	+5.5	+0.56	+19	+0.72	+0.92	+0.92	$222	$366
USA17366506	HBR			33%	94%	80%	99%	99%	98%	98%	98%	98%	97%	98%	73%	95%	94%	94%	95%	92%	94%	86%	98%	97%	97%	95%		
NORH414				22	56	4	24	18	68	62	50	65	3	78	24	75	49	16	57	88	2	89	54	24	37	16	26	33
NORL683	**RENNYLEA L683** [PV]			-0.11	+2.3	+0.6	-5.2	+5.3	+55	+94	+119	+105	+5	+1.9	-5.8	+80	+5.9	+0.5	-1.6	+0.8	+2.0	+0.72	+20	+0.74	+0.86	+0.98	$220	$370
NORE11	APR			52%	82%	70%	98%	97%	96%	96%	96%	93%	90%	94%	65%	90%	89%	86%	89%	84%	90%	83%	95%	88%	88%	85%		
NORJ631				22	55	73	42	76	26	40	45	41	99	56	20	14	53	36	72	28	52	96	46	28	23	31	28	29
NORM1078	**RENNYLEA M1078** [SV]			-0.20	-2.0	-2.9	-2.3	+3.0	+40	+81	+101	+90	+12	+1.9	-5.1	+59	+10.9	-1.2	-4.6	+0.8	+8.0	+0.90	+11	+0.96	+1.04	+1.20	$216	$340
NORH708	APR			37%	73%	61%	97%	96%	95%	95%	94%	92%	85%	92%	55%	90%	89%	89%	90%	81%	91%	82%	94%	87%	87%	84%		
NORF563				3	83	92	85	27	89	77	81	67	89	56	37	70	9	75	98	28	1	99	89	73	66	91	32	54
NORP987	**RENNYLEA P987** [PV]			-0.01	+9.4	+8.6	-8.7	+1.9	+52	+99	+130	+121	+14	+1.2	-4.5	+78	+4.9	+4.4	+3.1	-1.9	+8.3	+0.99	+9	+0.94	+0.92	+1.06	$237	$423
NORM763	APR			32%	72%	55%	95%	95%	93%	92%	92%	85%	72%	89%	49%	78%	77%	78%	78%	72%	77%	61%	93%	61%	63%	60%		
NORM1184				72	4	4	6	11	42	24	23	19	77	81	54	18	66	1	6	99	1	99	94	70	37	58	13	4
	Breed Average EBVs			**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NORQ1081	**RENNYLEA Q1081 PV**	-0.06	+1.5	+3.8	-4.0	+3.3	+50	+90	+112	+94	+11	+3.0	-6.0	+51	+11.8	+0.7	-0.7	+0.7	+6.3	+0.62	+13	+0.84	+0.98	+0.94	$262	$412
NORH708	APR	35%	70%	58%	90%	90%	86%	83%	83%	80%	70%	81%	52%	75%	72%	73%	73%	69%	74%	64%	81%	69%	73%	69%		
NORL841		46	61	42	62	32	52	51	61	60	90	18	17	89	6	31	57	34	1	92	83	49	52	20	3	7
NORQ213	**RENNYLEA Q213 PV**	-0.05	+10.5	+7.4	-7.9	+1.1	+65	+123	+153	+109	+28	+0.4	-8.6	+102	+10.4	-0.7	-1.1	+0.3	+3.7	+0.58	+27	+0.56	+0.76	+0.84	$326	$522
NORK907	APR	31%	72%	57%	96%	96%	94%	93%	93%	84%	71%	90%	51%	78%	77%	78%	78%	73%	77%	62%	92%	69%	70%	67%		
NORL110		51	2	9	10	6	4	1	3	34	2	96	1	1	11	64	64	60	14	90	21	6	9	5	1	1
TRHP52	**RICHMOND HILL PLAY P52 SV**	-0.22	+3.9	+2.4	-0.1	+3.9	+49	+84	+110	+113	+14	+4.2	-4.3	+66	+8.8	-4.8	-5.4	+1.7	+2.5	-0.17	+33	+1.06	+0.96	+1.12	$185	$335
TRHL9	HBR	29%	65%	47%	92%	92%	89%	82%	80%	75%	64%	73%	36%	70%	61%	65%	65%	57%	65%	50%	87%	76%	77%	70%		
TRHH92		2	41	56	97	46	57	70	66	28	77	3	60	52	21	99	99	3	38	12	9	87	47	76	67	58
NZE21159019	**SEVEN HILLS 312/19 PV**	+0.00	+2.7	+3.6	-8.2	+3.1	+57	+101	+128	+99	+23	-0.3	-2.5	+75	+10.2	-3.9	-5.3	+1.2	+3.9	+0.35	+22	+1.06	+0.94	+0.92	$233	$372
USA18217198	HBR	29%	68%	53%	90%	86%	78%	75%	76%	75%	67%	70%	38%	67%	65%	66%	66%	60%	68%	54%	57%	74%	74%	69%		
NZE21159117053		77	51	44	8	29	21	22	27	51	10	99	93	25	12	99	99	11	12	72	38	87	42	16	16	28
NZE21159018	**SEVEN HILLS 410/18 SV**	-0.22	-0.7	-1.1	-0.7	+3.4	+49	+96	+125	+97	+18	+1.4	-3.4	+75	+7.0	-0.1	+0.4	+0.1	+4.0	+0.68	+28	+0.60	+0.74	+1.10	$205	$337
NZE21159016295	HBR	27%	69%	51%	93%	91%	88%	85%	83%	78%	63%	65%	39%	71%	67%	71%	70%	64%	70%	51%	84%	63%	63%	60%		
NZE21159116096		2	76	84	95	34	55	32	33	56	41	75	82	25	39	50	36	72	10	94	19	9	7	70	45	56
APBK11	**SHACORRAHDALU KINETIC K11**	+0.07	+11.1	+11.1	-9.5	+0.8	+49	+91	+107	+97	+10	+4.9	-8.0	+61	+9.4	+2.4	+0.8	+0.9	+1.6	+0.67	+7	+0.94	+1.06	+0.96	$245	$427
VTMB1	HBR	40%	73%	64%	91%	90%	87%	84%	83%	81%	77%	78%	58%	76%	68%	71%	71%	66%	71%	64%	79%	72%	70%	69%		
APBF2		95	1	1	3	4	54	48	72	55	94	1	1	66	17	8	29	23	64	94	96	70	71	25	8	4
APBR5	**SHACORRAHDALU ROYALE R5**	-0.10	+8.4	+7.9	-7.4	+1.8	+53	+97	+121	+75	+24	+2.3	-6.1	+75	+10.1	+2.2	+2.6	+0.3	+3.2	+0.57	+25	+0.80	+1.00	+0.78	$277	$434
TFAK132	HBR	35%	68%	56%	82%	84%	78%	76%	76%	75%	67%	75%	45%	68%	64%	66%	66%	61%	68%	56%	57%	75%	71%	68%		
HBUP80		26	8	7	14	10	37	32	41	87	8	40	15	25	13	10	9	60	22	90	28	40	57	2	1	3
SYAN340	**STONEY POINT NOLTE N340 SV**	+0.13	-0.5	-5.3	-5.6	+6.8	+74	+137	+171	+163	+20	+3.8	-4.5	+116	+7.4	-3.7	-6.0	+1.0	+2.6	-0.13	+4	+0.90	+0.86	+1.24	$242	$433
SYAL178	HBR	31%	72%	60%	96%	96%	95%	94%	94%	88%	78%	89%	48%	86%	84%	84%	85%	76%	86%	72%	88%	87%	87%	83%		
SGMK250		99	75	97	36	94	1	1	1	1	27	6	54	1	35	99	99	18	35	15	98	62	23	95	10	3
SYAP147	**STONEY POINT PERRY P147 PV**	+0.06	+5.6	+2.9	-5.2	+4.2	+58	+106	+131	+104	+24	+1.4	-5.7	+88	+11.3	-2.5	-3.4	+0.8	+3.6	-0.29	+15	+0.84	+0.82	+0.82	$261	$425
USA17936442	HBR	35%	69%	51%	93%	92%	90%	86%	82%	78%	68%	82%	42%	73%	69%	71%	70%	64%	71%	55%	86%	76%	77%	68%		
SWAH233		93	26	51	42	53	18	12	22	42	9	75	22	5	7	93	92	28	15	6	75	49	16	4	3	4
NZE19507018	**STORTH OAKS FULLY LOADED**	-0.09	+7.3	+8.2	-12.1	+1.4	+45	+83	+124	+120	+17	+2.7	-5.2	+63	+4.6	+1.5	+1.3	-0.7	+4.6	+0.49	+31	+0.60	+0.86	+1.00	$193	$368
NORL508	HBR	36%	77%	59%	97%	96%	95%	93%	91%	84%	72%	88%	51%	78%	76%	78%	78%	72%	77%	63%	91%	76%	77%	73%		
NZE19507113J320		31	14	6	1	7	75	71	34	20	48	26	34	60	70	17	22	96	5	84	11	9	23	38	59	31
NZE19507013	**STORTH OAKS JACK J7 SV**	-0.18	+7.1	+10.1	-5.3	+4.7	+60	+113	+154	+143	+20	+3.3	-2.2	+84	+8.3	-0.3	-2.9	-0.3	+2.4	+0.20	+24	+1.00	+1.00	+0.92	$192	$383
VTME343	HBR	33%	86%	74%	98%	98%	97%	97%	97%	94%	93%	96%	68%	93%	92%	91%	92%	89%	93%	84%	96%	92%	93%	89%		
NZE19507111G183		5	15	1	41	64	11	5	3	4	28	12	95	8	26	55	89	88	41	53	32	79	57	16	59	21
VSNG34	**STRATHEWEN BERKLEY G34 PV**	+0.12	+8.3	+7.9	-7.4	+3.9	+57	+103	+140	+143	+18	+2.2	-6.8	+83	+6.2	+1.0	+0.2	+0.5	+1.3	-0.15	+17	+1.12	+1.24	+1.10	$225	$428
VTMB1	HBR	39%	79%	69%	94%	93%	91%	91%	91%	88%	86%	83%	65%	89%	88%	88%	89%	84%	90%	82%	86%	88%	88%	84%		
VSNE22		99	8	7	14	46	20	16	11	4	45	44	7	10	49	25	40	47	72	13	67	92	94	70	22	4
USA17236055	**SYDGEN BLACK PEARL 2006 PV**	-0.10	+4.4	+8.4	-7.5	+3.2	+51	+85	+122	+84	+22	+1.7	-3.1	+75	+8.7	+0.2	-0.5	+0.6	+2.2	+0.05	+14	+1.06	+1.20	+1.14	$212	$346
USA15354674	HBR	28%	97%	91%	99%	99%	99%	99%	99%	98%	98%	99%	87%	97%	97%	97%	97%	96%	96%	91%	98%	99%	99%	97%		
USA16214508		26	36	5	13	30	45	67	39	76	14	64	86	26	22	42	53	40	46	33	78	87	91	81	36	49
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident / Sire / Dam	Name / Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
VTMA149	**TE MANIA ADA A149** PV	-0.12	-6.9	-4.2	-3.6	+6.5	+52	+95	+127	+168	+10	+1.8	-2.4	+81	+3.9	-3.4	-2.1	+1.5	-0.6	-0.69	+25	+0.88	+0.76	+0.78	$95	$247
VTMX60	HBR	53%	97%	91%	99%	99%	99%	99%	99%	98%	98%	98%	86%	97%	96%	97%	97%	96%	96%	91%	96%	97%	97%	96%		
VTMU338		18	95	95	69	92	42	36	29	1	95	60	93	12	78	98	80	5	99	1	27	58	9	2	99	94
VTMK52	**TE MANIA KALIBROOK K52** PV	-0.04	+8.2	+4.8	-2.7	+1.5	+51	+105	+127	+92	+29	+1.8	-6.8	+68	+1.8	+1.1	+2.2	-1.1	+5.8	+1.47	+15	+1.10	+1.08	+1.08	$258	$427
USA16295688	HBR	30%	74%	65%	93%	93%	89%	89%	88%	84%	74%	83%	62%	85%	84%	82%	85%	80%	86%	75%	83%	88%	88%	84%		
VTMH423		57	9	31	81	8	44	14	30	64	1	60	7	44	93	24	12	99	1	99	75	91	74	65	4	4
VTMK138	**TE MANIA KIRBY K138** PV	-0.02	+0.4	+6.5	-1.7	+4.3	+50	+90	+119	+92	+20	+2.5	-9.4	+67	+5.3	+1.7	+3.0	-1.9	+8.6	+1.21	+9	+0.82	+0.76	+0.98	$267	$427
USA16295688	HBR	28%	93%	81%	99%	99%	98%	98%	98%	97%	97%	97%	77%	97%	95%	94%	96%	93%	95%	85%	98%	98%	98%	97%		
VTMH17		68	69	15	90	55	49	52	45	64	30	33	1	49	61	15	7	99	1	99	94	45	9	31	2	4
VTMM13	**TE MANIA MAGNATE M13** PV	-0.15	-2.0	+7.7	-12.2	+4.3	+51	+91	+113	+79	+31	+2.3	-8.1	+59	+5.4	-1.9	-1.4	+0.6	+1.7	+0.27	+29	+1.02	+1.26	+1.20	$226	$360
HIOH9	HBR	38%	84%	70%	98%	98%	97%	97%	97%	95%	92%	96%	62%	95%	92%	89%	95%	85%	92%	79%	97%	91%	92%	87%		
VTMK200		10	83	8	1	55	43	47	60	82	1	40	1	71	60	87	69	40	61	62	15	82	95	91	21	38
VTMN424	**TE MANIA NEBO N424** PV	-0.13	+10.8	-1.4	-7.2	+3.8	+52	+102	+127	+103	+33	+4.5	-4.0	+57	+7.7	-1.1	-3.7	+0.4	+4.5	-0.01	+50	+0.72	+0.76	+1.02	$212	$364
VTMJ89	HBR	31%	87%	76%	98%	98%	98%	98%	98%	96%	92%	96%	56%	93%	93%	89%	93%	84%	92%	80%	97%	92%	92%	88%		
VTMJ214		15	2	86	15	44	42	19	29	45	1	2	68	77	31	73	94	53	6	26	1	24	9	45	36	34
VTMN1387	**TE MANIA NEON N1387** SV	-0.17	-0.7	+3.4	-6.5	+3.6	+49	+89	+112	+90	+20	+1.9	-7.5	+52	+2.9	-0.6	-1.3	-2.0	+9.7	+0.44	+29	+0.80	+0.78	+1.06	$232	$375
VTMK138	HBR	30%	79%	61%	98%	98%	96%	96%	93%	86%	72%	93%	54%	82%	84%	82%	84%	77%	83%	65%	95%	77%	77%	74%		
VTML452		6	76	46	23	39	53	53	62	67	25	56	3	88	87	62	67	99	1	80	15	40	11	58	17	26
VTMN181	**TE MANIA NERO N181** PV	-0.13	-13.5	-5.0	-3.1	+5.3	+61	+107	+142	+115	+30	+5.3	-5.9	+74	+6.4	-4.5	-5.0	+0.3	+6.2	+0.19	+31	+0.84	+0.98	+1.22	$207	$328
VTML135	HBR	34%	83%	70%	98%	97%	97%	97%	97%	94%	87%	92%	52%	92%	91%	87%	91%	81%	90%	75%	93%	84%	84%	81%		
VTML1251		15	99	97	76	76	10	11	9	26	1	1	18	28	47	99	99	60	1	51	11	49	52	93	42	63
VTMP888	**TE MANIA PESO P888** PV	-0.16	+9.3	+4.7	-5.9	+1.4	+56	+117	+143	+109	+28	+2.3	-6.3	+92	+2.8	-0.5	+0.7	+0.1	+1.8	+0.54	+36	+0.84	+1.04	+0.96	$249	$431
VTMK226	HBR	31%	81%	66%	98%	97%	97%	97%	96%	92%	82%	90%	54%	85%	87%	84%	86%	79%	84%	63%	94%	73%	73%	72%		
VTMH423		8	5	32	31	7	25	3	8	35	1	40	12	3	87	60	31	72	58	88	6	49	66	25	7	3
VTMQ854	**TE MANIA QUEBEC Q854** SV	-0.06	+8.3	+3.9	-2.7	+1.4	+50	+88	+115	+80	+26	+0.6	-3.9	+57	+6.0	+1.0	+2.2	+0.0	+3.4	+0.31	+33	+0.80	+0.92	+0.76	$228	$367
USA18229488	HBR	27%	82%	58%	98%	97%	95%	93%	89%	83%	70%	87%	44%	77%	75%	76%	76%	71%	75%	57%	94%	77%	77%	72%		
VTML1244		46	8	40	81	7	48	57	55	81	4	93	71	78	52	25	12	77	19	67	9	40	37	1	20	32
DXTM100	**TEXAS MT KAPUTAR M100** PV	-0.18	+8.3	+8.2	-11.0	+4.2	+62	+109	+153	+145	+19	+3.7	-4.5	+91	+5.9	-3.0	-4.1	+0.7	+1.6	+0.07	+28	+0.94	+1.14	+1.02	$213	$410
USA15848590	HBR	27%	77%	65%	97%	96%	94%	94%	93%	87%	84%	91%	58%	87%	87%	86%	87%	81%	87%	77%	89%	85%	85%	81%		
DXTZ183		5	8	6	1	53	7	8	3	4	37	7	54	4	53	96	96	34	64	35	17	70	84	45	36	8
USA18704096	**THOMAS EDISON 6764** PV	+0.09	-1.0	+7.6	-0.1	+4.3	+62	+102	+140	+128	+12	+0.4	-3.7	+85	+10.8	-5.5	-7.8	+1.6	+2.5	-0.10	+9	+0.86	+1.02	+0.92	$217	$374
USA16933958	HBR	27%	70%	55%	93%	91%	89%	89%	89%	84%	80%	82%	49%	86%	85%	84%	84%	76%	87%	74%	73%	89%	87%	73%		
USA18048451		97	78	8	97	55	7	18	11	12	88	96	76	8	9	99	99	4	38	17	92	54	62	16	31	27
DBLL292	**TOPBOS LEADING EDGE L292** PV	+0.06	+1.7	+6.4	-5.9	+6.9	+73	+129	+168	+157	+22	+1.4	-5.3	+87	+3.8	-2.3	-4.9	+0.4	+1.1	+0.00	+26	+0.96	+0.76	+0.78	$234	$431
USA16295688	HBR	31%	86%	70%	97%	98%	97%	97%	97%	94%	94%	96%	65%	92%	90%	88%	91%	85%	91%	84%	95%	91%	90%	87%		
VSNF04		93	60	16	31	94	1	1	1	2	15	75	32	6	79	91	98	53	77	27	23	73	9	2	15	3
ELYH1	**TRIO DOCKLANDS H1** PV	+0.03	+8.9	+3.1	-8.9	+2.1	+42	+83	+113	+73	+29	+2.9	-6.9	+70	-1.1	+2.7	+4.8	-0.9	+1.4	-0.46	+18	+0.82	+1.26	+1.10	$193	$334
QHED62	HBR	32%	75%	63%	91%	94%	93%	92%	92%	89%	89%	87%	61%	88%	85%	85%	86%	83%	87%	77%	82%	83%	83%	78%		
NKLD15		87	6	49	5	13	83	72	58	88	1	21	6	38	99	6	2	98	69	2	61	45	95	70	59	58
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

Angus Australia - Shear Force Research Breeding Values

Date: May 29, 2023

Ident **Name**

Sire / Dam	Reg.	Shear Force	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			Dir	Dtrs	GL	BW	200	400	600	MCW	Milk	SS	DC	CW	EMA	Rib	P8	RBY	IMF	NFI-F	Doc	Claw	Angle	Leg	$A	$A-L
NZE17691009	**TURIHAUA CRUMP E5** SV	-0.03	-3.0	-2.0	-5.8	+3.7	+29	+57	+82	+95	+14	+1.0	-10.4	+15	-0.4	+4.4	+2.7	-0.1	+1.2	+0.30	+29	+0.66	+1.20	+1.20	$129	$256
NZE17691003Y167	HBR	28%	91%	82%	97%	98%	98%	98%	98%	97%	97%	97%	87%	95%	94%	94%	94%	93%	94%	85%	81%	84%	84%	78%		
NZE17691195Q263		62	87	89	33	41	99	99	97	58	72	87	1	99	99	1	8	81	75	66	16	15	91	91	96	93
NXTL096	**TWYNAM L096** SV	-0.12	+8.8	+9.3	-8.2	+2.7	+58	+111	+159	+134	+28	+3.5	-8.7	+107	+2.5	+0.7	+0.8	-0.7	+3.0	-0.21	+11	+0.62	+0.86	+0.90	$255	$464
NXTH111	APR	32%	69%	51%	93%	93%	89%	89%	88%	82%	68%	83%	49%	85%	83%	80%	85%	78%	85%	85%	75%	74%	75%	69%		
NXTJ078		18	6	2	8	21	18	6	2	8	2	9	1	1	89	31	29	96	26	10	90	11	23	12	5	1
USA18066037	**V A R LEGEND 5019** SV	+0.01	-2.0	+4.4	-6.8	+5.5	+70	+121	+148	+154	+11	+2.7	-4.4	+86	+10.0	-4.0	-6.0	+1.3	+2.1	-0.36	+17	+1.04	+0.68	+0.86	$228	$411
USA17262835	HBR	28%	75%	60%	96%	96%	93%	93%	92%	88%	84%	87%	52%	88%	87%	86%	85%	79%	89%	76%	85%	97%	96%	81%		
USA16924432		81	83	35	19	79	2	2	5	2	93	26	57	7	13	99	99	9	49	4	63	85	3	7	20	7
BSCF73	**WAITARA PIO FEDERAL F73** SV	+0.08	+5.3	+5.8	-4.4	+1.6	+55	+103	+134	+89	+27	+2.6	-3.8	+90	+5.1	-0.6	-0.5	+0.3	+1.3	+0.33	+15	+1.40	+1.24	+0.92	$220	$367
USA15688392	HBR	73%	88%	73%	98%	98%	97%	97%	97%	96%	96%	96%	68%	94%	93%	93%	94%	89%	93%	86%	96%	95%	95%	92%		
BSCZ66		96	28	21	56	9	26	17	18	69	3	29	73	4	64	62	53	60	72	69	72	99	94	16	28	32
BSCP90	**WAITARA PRINCETON P90** PV	-0.08	+0.7	+3.5	-2.4	+4.5	+50	+95	+124	+79	+23	+2.2	-4.4	+76	+9.2	+0.0	+0.1	+0.0	+2.6	+0.27	+44	+0.60	+0.78	+0.98	$216	$344
GTNM6	HBR	31%	73%	55%	96%	94%	93%	93%	91%	84%	73%	89%	47%	78%	78%	78%	78%	73%	78%	61%	91%	85%	85%	81%		
BSCJ2		35	67	45	84	60	48	36	36	82	9	44	57	22	18	47	41	77	35	62	1	9	11	31	32	50
QKBP29	**WARRAWEE PATROL P29** PV	+0.00	+10.3	+11.6	-13.3	+2.3	+55	+106	+142	+124	+21	+2.5	-6.8	+103	+8.5	+3.4	+2.0	-0.1	+1.8	+0.49	+27	+0.80	+1.26	+0.96	$246	$446
SMPG357	HBR	36%	71%	59%	93%	90%	87%	86%	85%	82%	73%	80%	56%	80%	80%	81%	81%	75%	82%	71%	79%	77%	77%	73%		
QKBM01		77	2	1	1	16	29	11	9	15	19	33	7	1	24	3	14	81	58	84	21	40	95	25	8	2
NWPG188	**WATTLETOP FRANKLIN G188** SV	+0.08	+4.6	+7.2	-4.7	+2.2	+64	+109	+141	+119	+25	+3.7	-3.3	+87	+1.3	-1.4	-1.7	-0.3	+0.8	-1.13	+33	+1.00	+0.94	+0.92	$191	$358
USA15462648	HBR	31%	94%	83%	99%	99%	98%	98%	98%	97%	97%	98%	72%	95%	94%	94%	94%	91%	93%	86%	97%	95%	95%	92%		
NWPE295		96	34	11	51	15	5	8	10	20	6	7	83	6	95	79	74	88	84	1	8	79	42	16	60	39
NWPL4	**WATTLETOP LOCK L4** SV	-0.16	-3.4	-0.9	-8.1	+6.2	+59	+108	+156	+150	+29	+1.7	-2.3	+101	+7.4	+1.4	+1.7	+0.3	+1.1	+0.10	+16	+1.10	+0.82	+0.78	$172	$330
USA15738589	HBR	34%	77%	65%	96%	96%	94%	95%	95%	90%	86%	93%	61%	90%	89%	88%	89%	85%	90%	80%	91%	84%	84%	79%		
NWPJ70		8	88	83	9	89	14	9	3	3	1	64	94	1	35	19	17	60	77	39	70	91	16	2	78	62
NWPE111	**WATTLETOP SITZ 458N E111** SV	+0.20	+3.6	+6.6	-4.6	+2.8	+47	+86	+118	+88	+28	+1.9	-1.8	+76	+5.4	-3.9	-3.5	+1.0	+3.4	-0.51	+33	+0.88	+0.88	+1.04	$188	$315
USA14474596	HBR	75%	88%	76%	97%	97%	96%	97%	97%	95%	96%	95%	71%	93%	91%	92%	92%	88%	92%	83%	93%	87%	87%	81%		
NWPC36		99	43	15	52	23	65	62	47	70	2	56	96	21	60	99	93	18	19	2	9	58	27	51	63	71
CWDJ17	**WEATHERLY JAMES J17** SV	-0.27	-2.4	-4.6	-4.2	+6.4	+49	+85	+110	+110	+3	+1.7	-5.3	+65	+10.0	+1.5	+2.3	+1.1	+3.2	+0.07	+14	+0.86	+1.20	+1.00	$214	$351
BNAD145	HBR	41%	75%	66%	93%	92%	90%	90%	91%	87%	84%	82%	65%	89%	88%	88%	88%	84%	90%	82%	83%	87%	86%	80%		
CWDF14		1	84	96	59	91	54	66	66	33	99	64	32	54	13	17	11	14	22	35	79	54	91	38	34	45
	Breed Average EBVs	**-0.06**	**+2.2**	**+2.6**	**-4.8**	**+4.1**	**+50**	**+90**	**+117**	**+100**	**+17**	**+2.1**	**-4.6**	**+66**	**+6.3**	**-0.1**	**-0.3**	**+0.5**	**+2.2**	**+0.19**	**+20**	**+0.84**	**+0.97**	**+1.03**	**+197**	**+339**

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