



**TransTasman Angus Cattle Evaluation**

## **Shear Force**

**RESEARCH BREEDING VALUES**

**MARCH 2024**



## 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.

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## 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 RBVs 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.

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Angus Australia - Shear Force Research Breeding Values

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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	
NXOL172	AJC L172 <sup>SV</sup>	-0.07	+6.4	+8.3	-6.1	+3.2	+60	+102	+138	+131	+13	+2.4	-4.9	+72	+6.9	-0.7	+0.2	+0.3	+1.1	-1.03	+22	+1.40	+1.28	+1.22	\$219	\$407	
NXOF43	APR	35%	76%	61%	94%	96%	94%	94%	94%	87%	87%	83%	55%	91%	89%	84%	89%	82%	91%	83%	85%	85%	85%	81%			
NXOJ432		41	15	5	24	32	13	22	14	12	81	39	43	36	44	64	40	60	80	1	45	99	96	93	32	11	
NXOL99	AJC L99 <sup>PV</sup>	+0.08	+5.2	+0.7	-5.4	+4.8	+62	+109	+145	+113	+21	+3.3	-7.0	+96	+8.9	-2.0	+0.9	+0.4	+2.4	-0.34	+14	+1.22	+1.10	+0.94	\$272	\$447	
USA16073564	APR	40%	84%	74%	96%	97%	96%	96%	96%	92%	93%	91%	61%	93%	91%	90%	91%	80%	92%	86%	89%	91%	91%	87%			
NXOJ112		88	24	74	34	69	9	9	8	30	18	15	8	2	23	88	28	54	45	6	78	98	78	22	2	2	
ARRR11	ALKIRA RENEGADE R11 <sup>PV</sup>	+0.27	+7.6	+6.7	-4.4	+2.2	+48	+100	+132	+108	+23	+2.4	-7.0	+67	+8.4	+1.0	+0.0	+0.3	+1.8	+0.01	+2	+0.74	+0.70	+0.90	\$229	\$408	
CAN2043806	HBR	37%	65%	53%	95%	92%	85%	82%	83%	80%	73%	79%	39%	72%	69%	69%	70%	61%	74%	59%	75%	66%	67%	59%			
QMUN24		99	8	14	50	15	65	27	23	38	12	39	8	52	28	26	43	60	61	27	98	28	4	14	23	10	
DGJG10	ALLOURA GET CRACKING G10 <sup>SV</sup>	-0.06	+8.5	+7.4	-3.0	+2.5	+44	+75	+88	+82	+12	-0.3	-8.5	+47	+14.3	+1.7	+0.5	+0.9	+5.3	+0.44	+6	+0.50	+1.00	+0.92	\$276	\$435	
VTMB1	HBR	48%	94%	84%	99%	99%	98%	98%	98%	98%	97%	97%	76%	95%	94%	94%	94%	91%	93%	88%	97%	96%	96%	93%			
DGJZ15		45	5	10	72	20	81	91	96	79	85	99	2	93	2	15	35	24	3	74	95	3	56	18	2	3	
DGJL94	ALLOURA LOCK STOCK &	-0.10	+6.2	+4.2	-3.9	+2.9	+55	+93	+124	+121	+14	+1.1	-4.1	+64	+0.7	+1.6	-1.7	+0.2	+2.3	-0.39	+26	+0.86	+0.88	+0.94	\$189	\$354	
USA15832750	HBR	41%	78%	68%	93%	95%	94%	94%	94%	89%	84%	87%	52%	88%	84%	80%	85%	76%	87%	77%	92%	84%	82%	77%			
DGJH24		31	16	38	58	26	29	46	39	20	72	84	63	61	96	16	74	66	48	5	29	53	27	22	66	47	
DGJQ30	ALLOURA QUINELLA Q30 <sup>SV</sup>	-0.09	+2.7	+2.2	+0.5	+3.0	+53	+98	+118	+120	+15	+3.2	-7.8	+74	+13.5	+0.5	+0.7	+1.1	+4.3	+0.51	+14	+1.02	+1.12	+1.18	\$271	\$450	
WWEL3	HBR	42%	72%	65%	94%	92%	90%	86%	86%	83%	77%	81%	53%	78%	74%	75%	76%	68%	78%	69%	88%	70%	70%	70%			
DGJK117		34	47	60	98	28	36	31	51	21	63	17	4	32	3	36	31	16	10	80	75	82	81	88	3	2	
CGKR232	ALPINE RONALDO R232 <sup>PV</sup>	-0.13	+6.2	+5.4	-5.0	+1.6	+52	+95	+134	+113	+24	+3.4	-5.5	+76	+12.1	-3.4	-3.3	+0.9	+3.1	+0.47	+23	+0.66	+0.70	+0.98	\$231	\$401	
NORN542	HBR	42%	67%	59%	94%	90%	85%	83%	83%	81%	76%	80%	47%	73%	72%	72%	73%	64%	76%	64%	78%	71%	71%	69%			
CGKM152		22	16	25	40	9	44	39	20	30	9	13	29	25	6	98	91	24	29	76	38	15	4	33	21	13	
WJMF96	ARDCAIRNIE F96 <sup>SV</sup>	-0.18	+4.4	+0.0	-4.4	+3.1	+49	+88	+121	+89	+14	+1.8	-3.8	+66	+6.8	-1.5	-1.6	+1.1	+1.0	-0.09	+27	+0.46	+0.84	+0.94	\$196	\$329	
WJMB59	HBR	73%	89%	78%	98%	98%	97%	97%	97%	95%	95%	96%	64%	92%	91%	91%	91%	86%	92%	81%	89%	87%	87%	83%			
WJMD25		11	31	79	50	30	61	62	44	69	71	62	70	53	46	80	72	16	82	19	25	2	19	22	59	66	
WJMJ27	ARDCAIRNIE J27 <sup>SV</sup>	-0.11	+6.7	+8.8	-7.6	+3.0	+55	+95	+131	+128	+8	+0.3	-3.8	+94	+1.9	+2.4	+1.2	-0.1	+0.9	+0.20	-1	+0.94	+1.12	+1.14	\$186	\$364	
USA15354674	HBR	39%	82%	72%	96%	97%	96%	96%	96%	93%	92%	93%	65%	93%	92%	91%	92%	88%	93%	86%	86%	87%	87%	82%			
WJMG96		28	13	4	10	28	28	39	25	14	97	96	70	3	93	8	24	81	84	48	99	69	81	81	69	39	
WJMM117	ARDCAIRNIE M117 <sup>SV</sup>	-0.07	+5.2	+0.0	-5.7	+3.7	+56	+100	+130	+137	+2	+3.0	-3.9	+76	+10.6	-0.8	-1.8	+1.5	+0.4	-0.03	+12	+0.88	+1.02	+0.92	\$197	\$372	
WJMF96	HBR	50%	77%	65%	93%	96%	94%	94%	94%	89%	85%	90%	57%	86%	85%	85%	85%	78%	86%	76%	82%	81%	81%	76%			
WJMG78		41	24	79	30	43	25	27	26	8	99	21	67	26	12	66	75	6	92	23	82	58	61	18	59	31	
NAQA241	ARDROSSAN EQUATOR A241 <sup>PV</sup>	+0.02	-2.0	+2.7	-4.4	+4.1	+50	+91	+122	+108	+20	+3.2	-7.8	+87	+8.5	-2.1	-0.2	+1.4	+1.2	+0.63	+25	+0.48	+0.86	+1.00	\$223	\$375	
USA2928	HBR	82%	99%	98%	99%	99%	99%	99%	99%	99%	99%	99%	95%	98%	98%	98%	98%	98%	98%	96%	99%	99%	99%	99%			
NAQW38		73	81	55	50	53	56	51	43	38	24	17	4	8	27	89	47	7	77	87	32	3	23	39	29	29	
NAQN329	ARDROSSAN HOLBROOK N329	-0.04	-2.8	-0.9	-3.0	+2.9	+48	+88	+112	+82	+22	+2.8	-7.1	+71	+5.3	+2.5	+2.5	-0.9	+4.1	+1.04	+14	+0.82	+1.02	+0.94	\$211	\$339	
NAQH318	HBR	51%	76%	65%	96%	94%	95%	94%	93%	88%	83%	85%	56%	90%	88%	88%	89%	80%	90%	82%	88%	81%	87%	83%			
NAQK30		53	85	84	72	26	62	60	64	78	17	26	8	40	64	8	11	98	13	99	76	45	61	22	42	59	
NAQH255	ARDROSSAN HONOUR H255 <sup>PV</sup>	+0.10	-1.2	-1.1	-2.8	+4.5	+43	+75	+98	+96	+13	+2.2	-5.9	+60	+5.8	+1.0	-1.1	+0.6	+2.1	+1.01	+8	+0.44	+1.02	+1.24	\$164	\$291	
NORE11	HBR	60%	96%	89%	99%	99%	98%	98%	98%	98%	98%	98%	84%	96%	96%	96%	96%	95%	96%	92%	98%	97%	97%	96%			
NAQD17		91	77	85	75	62	82	91	89	58	83	47	22	71	58	26	64	41	53	98	92	2	61	95	86	86	
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	

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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		
NAQQ67	ARDROSSAN NECTAR Q67 <sup>PV</sup>	+0.08	+3.2	+3.3	-10.1	+3.9	+57	+103	+132	+124	+14	+2.9	-6.3	+57	+7.8	+0.3	-0.7	+0.2	+2.9	-0.07	+44	+0.36	+0.82	+1.08	\$232	\$409		
NMMN334	HBR	43%	74%	61%	92%	94%	91%	89%	90%	85%	77%	81%	49%	79%	76%	77%	78%	71%	79%	66%	86%	64%	71%	68%				
NAQL96		88	42	48	2	48	21	20	23	18	72	24	16	79	34	40	56	66	33	20	2	1	16	65	20	10		
QQFH147	ASCOT HALLMARK H147 <sup>PV</sup>	-0.32	-3.6	+2.1	-5.0	+7.3	+60	+110	+152	+132	+15	+3.7	-5.6	+80	-2.0	+0.6	-0.2	-0.8	+3.1	+0.29	+17	+0.46	+0.82	+1.04	\$195	\$358		
VTME343	HBR	44%	95%	87%	98%	99%	98%	98%	98%	97%	98%	98%	78%	96%	95%	95%	95%	94%	95%	89%	97%	95%	95%	93%				
NMMF123		1	88	61	40	97	13	9	4	11	64	9	27	17	99	34	47	97	29	59	63	2	16	53	60	43		
HIOE7	AYRVALE BARTEL E7 <sup>PV</sup>	-0.11	+8.6	+9.5	-4.5	+1.8	+49	+86	+112	+72	+26	+2.5	-8.2	+64	+7.7	-0.7	+0.4	+1.3	+3.4	+0.32	+4	+1.04	+1.00	+1.14	\$288	\$445		
VTMB219	HBR	83%	99%	97%	99%	99%	99%	99%	99%	99%	99%	99%	93%	98%	98%	98%	98%	98%	98%	96%	99%	99%	99%	99%				
BVVB32		28	5	2	48	11	59	67	64	89	4	36	3	60	35	64	36	10	23	62	97	85	56	81	1	2		
HIOG11	AYRVALE GENETIC G11 <sup>PV</sup>	+0.04	-4.9	-12.9	-5.0	+5.1	+65	+117	+162	+139	+18	+1.6	-5.7	+83	+0.7	-3.8	-2.7	-0.1	+2.1	-0.24	+43	+1.06	+1.04	+1.08	\$195	\$346		
SEWD138	HBR	48%	87%	78%	98%	98%	97%	97%	97%	96%	95%	94%	61%	93%	90%	90%	91%	86%	92%	82%	89%	88%	88%	83%				
HIOE2		79	92	99	40	75	4	3	2	7	40	69	25	12	96	99	86	81	53	10	2	87	66	65	60	53		
NBBN47	BALD BLAIR NELSON N47 <sup>PV</sup>	-0.11	+2.8	-2.2	-4.9	+4.3	+55	+103	+149	+154	+15	+0.9	-4.3	+82	+4.2	-1.2	-1.0	+0.9	+0.6	-0.22	+29	+0.98	+1.14	+1.20	\$176	\$354		
HIOG18	HBR	42%	78%	67%	95%	95%	93%	93%	93%	90%	84%	90%	61%	88%	87%	87%	88%	80%	89%	82%	90%	85%	85%	82%				
NBBL83		28	46	90	42	58	31	19	5	3	64	88	58	13	77	75	62	24	89	10	18	76	84	91	78	47		
NBB21S86	BALD BLAIR STIRLING S86 <sup>PV</sup>	-0.03	+6.1	+8.9	-4.2	+2.5	+65	+110	+147	+112	+21	+4.0	-4.3	+95	+5.9	-2.2	-3.1	+0.0	+3.7	-0.20	+9	+0.76	+0.70	+1.04	\$251	\$427		
NMMP15	HBR	39%	73%	61%	94%	93%	85%	83%	84%	82%	76%	80%	44%	73%	71%	71%	72%	64%	75%	62%	78%	70%	70%	68%				
NBBQ25		56	17	3	53	20	5	8	6	32	21	6	58	3	57	90	90	76	18	11	90	32	4	53	8	5		
ECMK63	BANNABY REALITY K63 <sup>PV</sup>	+0.14	+3.6	+0.6	-2.8	+3.8	+44	+77	+100	+103	+13	+2.0	-0.4	+51	+5.2	-1.3	-1.6	+0.4	+1.3	-0.20	+28	+0.50	+1.00	+1.22	\$114	\$237		
NZE14647008839	HBR	41%	80%	70%	96%	97%	94%	94%	94%	90%	84%	90%	62%	91%	89%	89%	90%	85%	91%	85%	91%	89%	89%	85%				
ECMH45		95	38	75	75	46	79	88	85	46	81	54	99	89	65	77	72	54	75	11	21	3	56	93	99	97		
VONG272	BANQUET GARRETT G272 <sup>SV</sup>	-0.10	+1.1	+4.2	-1.4	+6.1	+54	+97	+141	+147	+19	+4.3	-2.2	+56	+1.3	-2.2	-3.6	+0.1	+2.8	-0.80	+23	+0.54	+1.04	+1.10	\$141	\$307		
VOND412	HBR	36%	79%	65%	94%	96%	94%	94%	95%	90%	88%	91%	58%	90%	88%	88%	89%	80%	87%	81%	86%	87%	87%	82%				
VONC368		31	61	38	89	89	34	33	11	4	31	4	92	80	95	90	93	72	35	1	38	5	66	71	94	79		
VONN462	BANQUET NUTTELLA N462 <sup>PV</sup>	-0.05	-2.3	+3.7	-4.6	+6.5	+55	+100	+132	+104	+23	+3.4	-4.1	+67	+3.5	+0.4	-1.0	+0.0	+1.1	-0.26	+51	+0.56	+0.90	+0.86	\$178	\$315		
VONJ507	HBR	42%	77%	60%	96%	97%	95%	96%	94%	87%	80%	93%	49%	81%	81%	81%	81%	75%	82%	65%	93%	56%	56%	53%				
VONK224		49	83	44	47	93	31	25	22	45	10	13	63	52	83	38	62	76	80	9	1	6	31	8	77	75		
NBNN239	BEN NEVIS NEWSFLASH N239 <sup>PV</sup>	-0.21	-2.0	+2.5	-4.6	+4.9	+58	+100	+133	+117	+18	+0.9	-2.8	+85	+5.5	-2.2	-0.4	+0.5	+1.4	+0.21	+11	+1.08	+1.04	+0.94	\$189	\$331		
USA16956101	HBR	39%	81%	71%	97%	97%	96%	96%	97%	92%	87%	93%	60%	91%	90%	90%	90%	83%	92%	83%	90%	92%	92%	89%				
NBNH215		7	81	57	47	71	17	26	21	25	41	88	87	10	62	90	51	47	72	49	85	89	66	22	66	65		
NBNP122	BEN NEVIS PRIME P122 <sup>PV</sup>	+0.06	+3.8	+5.5	+0.3	+2.6	+57	+88	+114	+80	+11	+3.2	-4.1	+61	+4.7	+0.8	+1.7	-0.5	+4.7	+0.43	+21	+0.68	+0.74	+1.00	\$238	\$376		
USA17960722	HBR	42%	76%	65%	94%	94%	91%	92%	92%	86%	77%	87%	55%	80%	79%	80%	80%	74%	81%	68%	78%	87%	86%	82%				
NBNM115		84	36	24	97	21	21	60	61	81	88	17	63	68	71	30	18	92	7	73	46	18	7	39	15	28		
NBNR138	BEN NEVIS RONAN R138 <sup>PV</sup>	+0.11	+4.0	+5.3	-8.6	+3.9	+73	+122	+150	+142	+11	+2.3	-3.5	+80	+8.5	-1.8	-2.3	+0.6	+1.0	-0.08	+21	+0.72	+0.86	+0.92	\$241	\$431		
USA17960722	HBR	38%	75%	65%	87%	88%	87%	86%	85%	82%	77%	81%	51%	76%	73%	73%	74%	67%	77%	66%	78%	75%	78%	73%				
NBNP153		92	34	26	5	48	1	2	5	6	90	43	76	16	27	85	82	41	82	19	49	25	23	18	13	4		
NGXQ227	BONGONGO BE QUICK Q227 <sup>PV</sup>	-0.11	+2.9	+1.3	-4.2	+3.2	+51	+93	+113	+67	+24	+3.8	-5.5	+53	+11.6	+0.8	+3.4	+0.1	+5.4	+0.38	+16	+0.64	+1.04	+1.14	\$274	\$408		
VLYM518	HBR	41%	71%	64%	96%	95%	92%	90%	89%	85%	77%	82%	53%	79%	79%	79%	80%	73%	80%	67%	85%	71%	71%	70%				
NGXN221		28	45	69	53	32	48	46	63	92	7	8	29	86	7	30	6	72	3	68	68	13	66	81	2	10		
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		



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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		
NGXP212 NORL508 NGXL13	BONGONGO P212 <sup>SV</sup> HBR	-0.08 39% 38	+5.6 70% 21	+10.0 62% 1	-6.7 96% 18	+2.1 96% 14	+45 94% 76	+85 94% 71	+101 94% 84	+76 90% 85	+23 82% 11	+3.9 87% 7	-8.6 59% 2	+53 89% 86	+3.8 88% 80	+3.3 88% 4	+5.6 89% 1	-1.0 81% 98	+4.8 90% 6	+0.95 81% 97	+13 86% 79	+0.82 84% 45	+0.88 84% 27	+1.00 80% 39	\$254 7	\$416 8		
NGXP421 USA18229425 NGXM413	BONGONGO P421 <sup>SV</sup> APR	-0.01 38% 63	+8.8 70% 4	+5.6 61% 23	-5.9 93% 27	+2.0 92% 13	+59 91% 17	+98 91% 31	+127 90% 32	+89 87% 69	+24 79% 9	+2.6 84% 32	-6.7 53% 11	+74 88% 31	+11.0 87% 10	+3.8 86% 2	+2.8 87% 9	-0.1 78% 81	+3.0 89% 31	+0.65 81% 88	+13 84% 80	+1.12 79% 92	+1.04 78% 66	+1.10 73% 71	\$276 2	\$441 3		
HCAG013 VTMA217 VTMZ618	BOONAROO GRAVITY G013 <sup>PV</sup> HBR	-0.01 54% 63	+4.6 90% 29	+3.8 83% 43	-5.3 98% 36	+3.6 98% 41	+51 97% 50	+87 97% 64	+114 97% 60	+103 94% 76	+23 95% 11	+3.8 97% 8	-6.0 72% 20	+56 92% 80	+4.6 92% 72	-2.8 92% 95	-3.2 92% 90	+1.3 87% 10	+2.9 91% 33	-0.74 85% 1	+21 94% 46	+0.50 94% 3	+0.92 94% 36	+1.06 91% 59	\$218 33	\$372 31		
HCAN20 VTMK338 HCAL54	BOONAROO KASBAH N20 <sup>SV</sup> HBR	-0.13 38% 22	+4.2 75% 33	+2.6 61% 56	-5.4 93% 34	+5.4 96% 80	+47 94% 69	+88 94% 62	+114 90% 60	+106 87% 40	+18 79% 45	+3.7 89% 9	-6.2 54% 17	+56 90% 81	+6.0 88% 56	-0.4 88% 57	-1.4 89% 69	+1.0 79% 20	+1.9 91% 59	+0.72 83% 91	+15 93% 73	+0.86 91% 53	+0.98 91% 51	+1.08 85% 65	\$201 54	\$357 44		
NGMN418 WWEL3 NGML471	BOOROOMOOKA JACKPOT N418 HBR	-0.08 41% 38	+2.5 70% 49	+7.0 65% 12	-8.7 95% 5	+5.3 96% 78	+61 95% 11	+108 95% 11	+134 95% 19	+128 92% 14	+8 85% 98	+3.4 94% 13	-6.5 61% 13	+79 88% 18	+9.4 86% 19	-0.4 86% 57	+0.1 87% 42	+0.9 79% 24	+2.4 88% 45	+0.32 79% 62	+30 95% 17	+1.32 92% 99	+1.08 92% 74	+1.04 85% 53	\$260 5	\$446 2		
NGMN213 NGML201 NGML45	BOOROOMOOKA NORMANDY HBR	-0.12 42% 25	+11.0 76% 1	+10.5 64% 1	-7.5 94% 11	+1.2 96% 6	+40 95% 90	+72 95% 94	+101 95% 84	+75 93% 87	+24 86% 7	+3.2 93% 17	-9.6 54% 1	+51 89% 90	+4.0 87% 78	-2.6 86% 93	-3.1 87% 90	+0.9 78% 24	+3.3 89% 25	+0.97 79% 98	+32 95% 12	+0.82 92% 45	+0.66 92% 3	+1.06 84% 59	\$232 20	\$389 20		
NGMP96 WWEL3 NGMM566	BOOROOMOOKA PARAGON P96 HBR	-0.07 42% 41	-3.7 81% 88	+2.0 72% 62	-7.5 98% 11	+3.9 98% 48	+61 97% 11	+118 97% 3	+160 97% 2	+123 93% 18	+30 86% 1	+3.4 96% 13	-8.1 61% 3	+109 92% 1	+13.6 90% 3	-2.7 90% 94	-1.5 90% 71	+1.8 82% 3	+1.8 92% 61	+0.87 85% 96	+34 97% 9	+0.86 95% 53	+1.00 95% 56	+1.14 92% 81	\$286 1	\$459 1		
NGMP22 NGMK9 NGMK640	BOOROOMOOKA PRESIDENT HBR	-0.15 44% 17	-1.1 75% 76	+3.0 64% 52	-6.3 97% 22	+4.7 96% 67	+58 94% 18	+107 95% 13	+142 95% 10	+126 89% 15	+22 80% 17	+2.7 88% 29	-6.3 58% 16	+76 90% 25	+5.9 89% 57	+0.0 88% 47	+0.5 89% 35	+0.3 80% 60	+2.5 91% 42	+0.50 83% 79	+18 93% 59	+0.40 86% 1	+0.60 86% 1	+0.82 81% 5	\$231 21	\$399 14		
NGMQ5 NORL519 NGMK720	BOOROOMOOKA QUALITY Q5 <sup>SV</sup> HBR	-0.11 45% 28	+2.8 76% 46	+6.9 66% 13	-6.5 92% 20	+3.7 90% 43	+55 89% 30	+103 85% 18	+144 86% 8	+139 83% 7	+20 78% 29	+2.4 81% 39	-4.6 54% 50	+78 77% 22	-3.4 73% 99	+1.0 74% 26	+2.1 75% 14	-1.8 67% 99	+6.0 77% 2	+0.54 67% 82	+35 85% 7	+0.78 75% 36	+0.92 75% 36	+1.04 72% 53	\$199 56	\$382 24		
NGMR49 USA17960722 NGMP361	BOOROOMOOKA RAUDONIKIS HBR	-0.02 37% 60	+3.7 71% 37	+5.3 63% 26	-5.5 92% 32	+3.7 91% 43	+63 87% 8	+104 86% 17	+128 86% 29	+97 83% 57	+19 77% 31	+3.7 82% 9	-2.5 50% 90	+72 76% 37	+11.1 72% 9	-0.3 72% 55	-1.7 73% 74	+1.2 65% 12	+0.9 76% 84	+0.17 65% 45	+33 83% 11	+0.88 76% 58	+0.82 76% 16	+0.92 72% 18	\$232 20	\$379 26		
BOWK2 VTME343 NAQZ31	BOWMAN AUSTRALIA K2 <sup>PV</sup> HBR	-0.15 45% 17	+6.9 79% 12	+3.4 75% 47	-6.5 94% 20	+3.5 91% 39	+48 91% 62	+97 90% 34	+121 90% 45	+94 87% 61	+22 84% 14	+4.9 83% 2	-8.2 68% 3	+68 88% 48	+8.0 88% 32	+0.0 87% 47	-1.6 88% 72	+1.0 82% 20	+1.2 90% 77	-0.63 83% 1	+12 87% 83	+0.84 84% 49	+1.02 84% 61	+0.94 81% 22	\$233 19	\$402 13		
SRKK306 NJWG279 TFAD58	BOWMONT KING K306 <sup>PV</sup> HBR	-0.11 45% 28	-1.6 87% 79	-9.8 78% 99	-4.8 97% 43	+4.4 98% 60	+49 97% 58	+78 97% 87	+103 97% 82	+86 94% 73	+2 93% 99	-0.4 96% 99	-5.1 68% 38	+64 93% 59	+15.3 93% 1	-0.3 92% 55	-2.0 93% 78	+1.6 90% 4	+4.7 93% 7	+0.40 86% 70	+26 96% 29	+0.54 91% 5	+0.90 91% 31	+0.76 88% 2	\$236 17	\$347 52		
BON21S004 USA19266718 BONQ008	BRIDGEWATER HOMETOWN HBR	+0.04 38% 79	+9.2 68% 3	+8.4 59% 5	-9.5 91% 3	+1.1 89% 6	+60 85% 14	+100 83% 26	+131 83% 24	+92 80% 64	+17 75% 47	+3.0 80% 21	-7.2 43% 7	+87 73% 8	+8.8 71% 24	+1.7 71% 15	+0.0 72% 43	-0.1 64% 81	+2.9 75% 33	+0.38 62% 68	+40 78% 3	+1.34 71% 99	+1.06 71% 70	+0.90 68% 14	\$273 2	\$446 2		
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		

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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		
BONQ007 QMUM13 HIOL28	BRIDGEWATER QUANTUM Q007 HBR	-0.07 43% 41	-3.7 69% 88	-3.5 63% 94	-5.2 93% 37	+5.7 92% 84	+65 91% 5	+101 90% 23	+134 91% 20	+105 86% 42	+21 78% 21	+0.5 83% 94	-5.6 56% 27	+89 89% 6	+7.1 89% 42	-0.1 88% 50	-1.9 89% 76	+0.2 79% 66	+2.1 91% 53	+0.10 84% 37	+22 86% 45	+1.02 79% 82	+0.86 80% 23	+1.04 77% 53	\$225 27	\$356 45		
AMQH64 VTME343 AMQF27	BROOKLANA HI TOWER H64 <sup>PV</sup> HBR	-0.23 43% 5	-4.8 79% 91	-3.2 70% 93	-0.3 94% 95	+5.1 92% 75	+53 91% 39	+102 91% 22	+141 91% 11	+124 87% 17	+16 81% 57	+2.0 83% 54	-2.3 64% 92	+84 88% 11	+5.1 88% 67	+2.2 87% 10	+1.3 88% 23	+0.4 81% 54	+1.2 90% 77	+0.52 83% 80	+26 85% 27	+0.60 84% 9	+0.94 84% 41	+1.06 79% 59	\$163 86	\$298 84		
GTNM6 VTMF734 VSNF15	CHILTERN PARK MOE M6 <sup>PV</sup> HBR	-0.19 44% 10	+4.7 91% 28	+4.2 79% 38	-1.3 99% 90	+3.1 99% 30	+51 99% 49	+99 99% 28	+134 99% 20	+88 96% 70	+26 95% 4	+1.6 98% 69	-6.4 66% 15	+77 94% 22	+5.3 92% 64	-0.3 92% 55	+1.1 93% 25	+0.1 87% 72	+2.0 93% 56	+0.30 84% 60	+38 99% 5	+0.70 99% 21	+1.06 99% 70	+1.08 98% 65	\$241 14	\$393 17		
GTNP9 HKFJ5 GTNK26	CHILTERN PARK PICASSO P9 <sup>PV</sup> HBR	+0.06 48% 84	+7.7 78% 8	+7.4 68% 10	-3.1 98% 71	+1.4 98% 8	+57 94% 22	+106 95% 13	+136 94% 17	+96 89% 59	+23 81% 12	+3.7 91% 9	-7.7 61% 4	+94 88% 3	+7.0 86% 43	-0.9 86% 69	+0.8 86% 30	-0.4 79% 90	+4.2 88% 11	+0.63 77% 87	+30 87% 17	+0.72 89% 25	+0.68 89% 3	+0.86 83% 8	\$279 2	\$459 1		
GTNQ322 USA18636106 GTNL198	CHILTERN PARK QUADRANT HBR	+0.10 40% 91	+6.6 78% 14	+4.1 64% 39	-2.5 97% 79	+3.2 97% 32	+62 92% 8	+115 95% 4	+142 91% 10	+103 85% 46	+18 78% 42	+4.3 82% 4	-5.8 48% 23	+87 80% 8	+12.6 74% 5	-0.5 75% 59	-0.8 75% 58	+0.3 68% 60	+4.2 77% 11	+0.89 66% 96	+4 86% 96	+1.22 69% 98	+1.10 69% 78	+1.00 65% 39	\$289 1	\$468 1		
QMUM13 USA16295688 QMUG1	CLUNES CROSSING DUSTY M13 HBR	+0.18 40% 98	-0.3 85% 71	+3.4 81% 47	-7.0 99% 15	+5.3 99% 78	+65 98% 5	+102 98% 22	+119 98% 48	+62 97% 95	+15 97% 65	+0.9 98% 88	-6.7 75% 11	+73 95% 34	+13.0 94% 4	-2.4 94% 92	-3.3 94% 91	+1.2 91% 12	+1.7 94% 64	+0.09 87% 36	+10 98% 89	+0.88 97% 58	+0.86 97% 23	+1.00 96% 39	\$291 1	\$416 7		
NBHK330 NJWG279 NBHH381	CLUNIE RANGE KALUHA K330 <sup>PV</sup> HBR	-0.23 43% 5	-1.5 84% 79	-12.8 74% 99	-4.9 97% 42	+5.5 97% 81	+54 96% 33	+96 96% 37	+126 96% 34	+98 92% 54	+15 89% 64	+1.5 96% 73	-7.1 66% 8	+91 92% 4	+9.5 91% 19	+0.1 91% 45	-1.2 92% 65	+1.2 89% 12	+3.0 93% 31	+0.22 86% 51	+5 94% 96	+0.70 87% 21	+1.00 88% 56	+1.18 85% 88	\$242 13	\$371 32		
NBHL348 NZE14647008839 AHWJ81	CLUNIE RANGE LEGEND L348 <sup>PV</sup> HBR	+0.12 40% 93	-6.6 95% 95	+4.6 86% 34	-7.8 99% 9	+5.8 99% 86	+57 98% 20	+102 98% 21	+125 98% 35	+154 97% 3	+2 97% 99	+3.0 98% 21	-7.2 77% 7	+62 95% 67	+0.2 94% 98	+3.6 94% 3	+1.1 94% 25	-0.8 92% 97	+2.5 94% 42	+0.03 86% 29	+26 97% 28	+0.48 97% 3	+0.80 97% 13	+1.24 96% 95	\$165 85	\$342 57		
NBHP392 USA17960722 NBHM516	CLUNIE RANGE PLANTATION HBR	+0.20 38% 99	+4.6 86% 29	+3.9 71% 42	-5.2 99% 37	+3.9 99% 48	+66 98% 4	+115 98% 4	+137 97% 16	+104 90% 44	+21 80% 21	+5.4 97% 1	-4.0 57% 65	+69 89% 46	-0.6 89% 99	-0.3 88% 55	-1.0 89% 62	-1.4 81% 99	+3.9 90% 15	+0.20 80% 48	+22 97% 45	+0.74 95% 28	+0.96 95% 46	+0.88 92% 11	\$220 31	\$383 24		
WDCH249 USA14885809 WDCE9	COONAMBLE HECTOR H249 <sup>SV</sup> HBR	+0.02 51% 73	+0.5 95% 66	+0.1 87% 78	-8.3 99% 6	+4.5 99% 62	+45 98% 78	+79 98% 85	+100 98% 86	+89 97% 69	+6 98% 99	+1.3 98% 79	-4.8 77% 45	+45 96% 95	+9.3 95% 20	+4.0 95% 2	+4.4 95% 3	+0.6 93% 41	+0.1 95% 95	-0.52 88% 2	+39 98% 4	+0.42 96% 1	+0.50 96% 1	+0.78 93% 3	\$183 72	\$311 77		
WDCJ266 BNAD145 WHHA61	COONAMBLE JUNIOR J266 <sup>PV</sup> HBR	-0.49 51% 1	-7.1 90% 96	-4.2 80% 95	+0.1 98% 97	+5.7 98% 84	+56 97% 24	+100 97% 27	+138 97% 14	+134 95% 10	+16 96% 61	+1.9 96% 58	-5.0 73% 40	+95 93% 3	+10.2 92% 14	-5.0 92% 99	-4.9 92% 98	+1.5 89% 6	+2.9 93% 33	-0.24 85% 10	+20 94% 51	+0.92 94% 66	+0.78 94% 11	+1.06 91% 59	\$194 61	\$336 61		
WDCK314 NAQA241 WDGD94	COONAMBLE KEVIN K314 <sup>PV</sup> HBR	-0.02 55% 60	-1.2 86% 77	+3.9 75% 42	-2.3 95% 81	+4.5 98% 62	+51 97% 51	+100 95% 25	+131 96% 23	+113 92% 31	+24 94% 8	+4.4 93% 3	-7.1 68% 8	+81 92% 16	+7.3 90% 40	+0.2 90% 43	+0.7 91% 31	+0.1 86% 72	+1.6 91% 67	+0.61 83% 86	+43 86% 2	+0.50 85% 3	+1.10 86% 78	+1.24 82% 95	\$206 48	\$367 36		
USA19611994 USA18467508 USA18974126	DB ICONIC G95 <sup>PV</sup> HBR	+0.13 37% 94	+1.1 75% 61	+7.6 62% 8	-3.0 96% 72	+2.9 95% 26	+66 93% 3	+126 91% 1	+154 88% 3	+140 86% 7	+16 83% 58	+3.1 85% 19	-3.6 49% 74	+93 84% 4	+9.2 82% 21	+1.3 79% 21	+0.6 76% 33	-0.5 73% 92	+4.6 84% 7	+0.26 64% 55	+39 86% 4	+1.18 94% 96	+1.00 94% 56	+0.96 68% 27	\$252 8	\$443 2		
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		

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Ident	Name		Breed Average EBVs																							
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
NJS21S15 USA18636106 QHEJ100	DEVANAH SATURN S15 <sup>PV</sup> HBR	-0.03 40% 56	+5.3 72% 23	+1.3 60% 69	-7.7 92% 10	+3.7 91% 43	+63 86% 6	+108 84% 11	+142 84% 10	+97 81% 56	+24 76% 8	+4.3 80% 4	-7.4 46% 6	+84 74% 11	+8.3 71% 29	-1.1 72% 73	-2.6 64% 85	+0.2 75% 66	+2.6 64% 40	+0.33 64% 63	+13 80% 79	+0.94 71% 69	+0.98 71% 51	+0.84 68% 6	\$267 3	\$432 4
WKGQ202 WKGN129 WKGL21	DIAMOND ONE ALL IN Q202 <sup>SV</sup> HBR	-0.18 36% 11	-9.1 70% 98	-7.9 54% 99	-5.4 93% 34	+8.2 90% 99	+72 84% 1	+122 82% 2	+168 83% 1	+156 80% 2	+23 74% 12	+2.8 77% 26	-4.0 39% 65	+101 71% 1	+11.1 67% 9	-6.2 68% 99	-6.4 69% 99	+2.0 60% 2	-0.4 72% 98	-0.72 58% 1	+23 73% 39	+0.94 59% 69	+0.62 59% 2	+0.88 53% 11	\$193 63	\$344 55
NGCM028 QHEJ134 NGCK204	DULVERTON MEDAGLIA M028 <sup>PV</sup> HBR	+0.04 43% 79	-8.2 72% 97	-2.0 62% 89	-4.7 93% 45	+7.4 90% 97	+72 93% 1	+122 94% 2	+161 94% 2	+152 88% 3	+10 86% 92	+1.2 90% 81	-3.9 53% 67	+86 88% 9	+5.9 86% 57	-1.2 86% 75	-4.3 87% 96	+0.4 78% 54	+2.6 88% 40	-0.80 77% 1	+19 82% 57	+1.14 78% 94	+1.14 79% 84	+1.06 74% 59	\$208 46	\$366 37
NGCN208 WWEL3 NGCG037	DULVERTON NEW APPROACH HBR	-0.27 39% 3	-1.5 70% 79	+1.8 65% 64	-5.7 95% 30	+4.1 94% 53	+51 95% 50	+87 96% 64	+113 95% 63	+112 90% 31	+12 87% 84	+1.5 92% 73	-5.1 62% 38	+73 90% 32	+11.5 89% 8	-1.8 88% 85	-1.6 89% 72	+2.1 81% 1	+0.9 90% 84	+0.09 81% 36	+24 87% 35	+1.02 85% 82	+1.12 85% 81	+1.04 82% 53	\$207 47	\$350 50
BHRH744 BNAD145 BHRD202	DUNOON HIGHPOINT H744 <sup>SV</sup> HBR	-0.50 49% 1	-11.8 85% 99	-14.1 76% 99	-3.8 97% 60	+6.9 97% 95	+56 96% 25	+97 96% 33	+129 96% 28	+132 94% 11	+17 94% 52	+2.8 95% 26	-5.4 70% 31	+88 92% 7	+5.6 91% 61	-1.9 91% 86	-1.4 92% 69	+1.5 88% 6	+1.0 92% 82	-0.52 85% 2	+19 94% 55	+0.68 89% 18	+0.86 89% 23	+1.08 86% 65	\$157 89	\$276 91
CYIR18 QMUM13 CYIM611	EBONY BEEF BILLIE RAY R18 <sup>PV</sup> APR	+0.04 44% 79	+3.7 70% 37	+8.4 63% 5	-4.1 93% 55	+4.8 91% 69	+66 85% 4	+107 83% 12	+127 84% 32	+67 82% 92	+21 77% 18	+2.5 80% 36	-5.6 53% 27	+80 76% 17	+12.6 74% 5	-1.6 74% 82	-1.0 75% 62	+0.9 67% 24	+2.0 78% 56	+0.09 68% 36	-3 78% 99	+1.02 76% 82	+0.88 77% 27	+1.14 73% 81	\$302 1	\$445 2
USA16198796 USA14686137 USA15452880	EF COMPLEMENT 8088 <sup>PV</sup> HBR	-0.11 43% 28	+4.6 99% 29	+7.1 95% 11	-4.7 99% 45	+2.9 99% 26	+52 99% 44	+97 99% 33	+129 99% 27	+97 99% 57	+22 99% 17	+1.4 99% 76	-7.6 91% 5	+75 98% 28	+7.9 97% 33	+1.2 98% 22	+0.5 98% 35	+0.9 97% 24	+1.5 97% 70	+0.58 94% 84	+20 99% 52	+0.92 99% 66	+1.28 99% 96	+1.16 98% 85	\$258 5	\$424 5
WWEQ15 VTMG67 WWEN17	ESSLEMONT GARTH Q15 <sup>PV</sup> HBR	+0.07 46% 86	-3.8 75% 88	+2.2 67% 60	-8.4 93% 6	+5.7 91% 84	+63 90% 6	+112 90% 6	+153 90% 6	+145 86% 5	+28 79% 2	+2.4 83% 39	-6.5 61% 13	+69 87% 44	+6.1 87% 54	-3.7 86% 98	-3.9 87% 95	+0.4 78% 54	+4.1 89% 13	-0.47 82% 3	+45 86% 1	+0.92 80% 66	+1.14 80% 84	+1.06 77% 59	\$230 22	\$403 12
WWEL3 HIOG18 WWEJ8	ESSLEMONT LOTTO L3 <sup>PV</sup> HBR	-0.25 45% 4	-6.3 87% 94	-1.7 86% 88	-5.4 99% 34	+4.5 99% 62	+60 99% 14	+110 99% 9	+139 99% 12	+132 98% 11	+18 98% 45	+3.6 98% 10	-8.8 81% 2	+92 97% 4	+14.6 96% 2	-0.4 96% 57	+0.3 96% 38	+1.7 95% 3	+3.2 96% 27	+0.39 92% 69	+15 98% 72	+1.12 98% 92	+1.02 98% 61	+1.16 97% 85	\$280 2	\$451 2
WWEQ24 WWEN12 WWEN7	ESSLEMONT QUOKKA Q24 <sup>PV</sup> HBR	-0.22 44% 6	+4.7 74% 28	+0.3 62% 77	-4.3 95% 52	+1.7 95% 10	+42 93% 86	+82 93% 77	+98 92% 88	+48 87% 99	+22 78% 14	+4.1 89% 5	-6.1 56% 19	+65 89% 56	+16.9 88% 1	+1.4 88% 19	-0.1 89% 45	+2.2 79% 1	+2.1 91% 53	+1.24 83% 99	+27 87% 23	+0.74 73% 28	+0.88 73% 27	+0.96 70% 27	\$264 4	\$383 24
WWE21S6 NGMN418 WWEN7	ESSLEMONT SEAN S6 <sup>PV</sup> HBR	-0.20 43% 8	+6.0 68% 18	+7.7 61% 8	-5.4 94% 34	+2.9 91% 26	+55 87% 30	+97 85% 35	+114 85% 61	+86 83% 73	+17 77% 52	+4.4 82% 3	-5.3 51% 33	+78 77% 20	+17.4 75% 1	+2.5 75% 8	+0.6 76% 33	+1.4 67% 7	+3.6 79% 20	+1.17 70% 99	+24 82% 34	+1.04 65% 85	+1.16 65% 87	+1.08 63% 65	\$286 1	\$447 2
NFSM99 BHRH240 NFSH124	FARRER MAXWELL M99 <sup>PV</sup> HBR	-0.09 43% 34	-5.9 76% 94	+1.5 63% 67	-0.2 95% 96	+7.6 95% 98	+66 94% 9	+113 93% 6	+151 93% 4	+145 91% 5	+13 85% 81	+4.1 89% 5	-6.2 55% 17	+89 87% 6	+13.7 86% 3	-2.9 86% 95	-4.8 86% 98	+2.0 77% 2	+2.6 88% 40	-0.18 76% 12	+42 92% 2	+0.76 85% 32	+0.74 85% 7	+0.86 81% 8	\$250 9	\$421 6
USA18217198 USA17354178 USA16934264	G A R ASHLAND <sup>PV</sup> HBR	+0.07 37% 86	+1.8 95% 55	+2.2 85% 60	-6.0 99% 26	+3.2 99% 32	+67 99% 3	+116 99% 4	+145 99% 8	+115 98% 27	+14 97% 76	+1.5 98% 73	-2.9 70% 86	+82 96% 15	+12.9 94% 4	-3.3 95% 97	-2.7 94% 86	+1.0 92% 20	+3.3 94% 25	+0.09 82% 36	+10 99% 87	+1.24 99% 98	+1.10 99% 78	+0.86 98% 8	\$265 4	\$426 5



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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		
USA16295688 USA13009379 USA15129456	G A R PROPHET <sup>SV</sup> HBR	+0.08 38% 88	+3.2 98% 42	+4.9 94% 30	-0.6 99% 94	+3.7 99% 43	+67 99% 3	+107 99% 12	+133 99% 21	+83 99% 77	+23 99% 12	+0.7 99% 92	-4.8 90% 45	+72 98% 35	+3.9 97% 79	-0.7 97% 64	-1.2 97% 65	-0.7 97% 96	+4.7 97% 97	+0.68 94% 90	+26 99% 27	+1.02 99% 82	+0.82 99% 16	+0.92 98% 18	\$270 3	\$413 8		
USA17328461 USA16205036 USA16431932	G A R SURE FIRE <sup>SV</sup> HBR	+0.08 40% 88	+6.5 95% 14	+2.2 86% 60	-3.0 99% 72	+2.2 99% 15	+50 98% 54	+91 98% 51	+112 98% 65	+80 97% 82	+19 98% 32	+4.1 98% 5	-7.6 79% 5	+64 96% 61	+8.4 96% 28	-0.5 96% 59	-0.6 96% 54	+0.9 94% 24	+3.7 96% 18	-0.10 89% 18	+25 96% 30	+1.16 99% 95	+0.94 99% 41	+0.58 92% 1	\$264 4	\$418 7		
USA18690054 USA17965471 USA18054344	GB FIREBALL 672 <sup>PV</sup> HBR	+0.05 34% 81	+2.5 92% 49	+6.4 80% 16	-4.8 99% 43	+2.5 99% 20	+61 98% 10	+98 98% 31	+129 98% 28	+117 97% 25	+17 95% 53	+2.7 98% 29	-7.1 61% 8	+79 94% 19	+14.7 93% 2	-2.8 92% 95	-4.0 92% 95	+0.9 86% 24	+5.6 93% 3	+0.47 83% 76	+11 98% 85	+1.02 99% 82	+0.92 99% 36	+0.80 97% 4	\$282 1	\$458 1		
QBGH221 BNAD145 QBGD80	GLENOCH HINMAN H221 <sup>SV</sup> HBR	-0.24 47% 5	+5.4 84% 22	-1.6 75% 88	-3.1 97% 71	+2.9 97% 26	+52 96% 41	+92 96% 48	+123 96% 40	+113 92% 30	+20 93% 29	+0.8 95% 90	-3.9 69% 67	+84 92% 12	+7.6 91% 36	-1.8 91% 85	-5.0 91% 98	+0.9 87% 24	+5.3 92% 3	-0.40 84% 4	+8 86% 92	+0.88 88% 58	+0.80 89% 13	+1.04 85% 53	\$219 33	\$369 34		
QB GK112 NAQA241 QBGG72	GLENOCH KALLANGUR K112 <sup>PV</sup> HBR	-0.02 54% 60	-9.0 79% 98	-3.0 70% 93	-3.7 93% 62	+6.5 96% 93	+56 94% 26	+98 94% 30	+126 94% 34	+105 89% 43	+15 87% 64	+1.6 92% 69	-7.3 65% 6	+90 90% 5	+12.1 89% 6	+1.0 89% 26	+3.3 90% 6	+0.5 82% 47	+2.6 91% 40	+0.40 84% 70	+23 85% 39	+0.74 91% 28	+0.76 92% 9	+0.70 88% 1	\$237 16	\$368 35		
EETN1 USA17031465 VSNL24	GVA NEWSWORTHY N1 <sup>PV</sup> HBR	+0.07 40% 86	+8.1 73% 6	+4.7 62% 33	-9.3 92% 3	+1.7 90% 10	+51 89% 50	+89 88% 60	+113 88% 62	+89 84% 70	+22 78% 15	+2.3 81% 43	-7.1 56% 8	+70 86% 42	+5.5 86% 62	-0.2 85% 52	-3.1 86% 90	+0.5 77% 47	+1.9 88% 59	+0.27 79% 56	+19 85% 58	+1.06 85% 87	+0.90 85% 31	+0.90 80% 14	\$220 32	\$375 29		
DKKM41 NORH708 DKKJ51	HARDHAT H708 MAIMURU J51 APR	-0.03 45% 56	-0.8 70% 75	+3.8 61% 43	-1.7 95% 87	+2.3 93% 17	+44 91% 81	+91 91% 51	+119 91% 49	+97 86% 56	+12 79% 86	+1.4 82% 76	-3.8 63% 70	+62 89% 65	+2.4 89% 90	+1.0 88% 26	-2.1 89% 79	-0.4 80% 90	+6.4 91% 1	+0.09 83% 36	+21 88% 48	+1.04 88% 85	+1.02 88% 61	+1.10 85% 71	\$195 61	\$331 65		
DKKQ110 NORK522 DKKM33	HARDHAT K522 KODAK M33 HBR	-0.10 46% 31	+3.3 74% 41	+9.2 62% 3	-6.8 91% 17	+2.4 91% 18	+46 88% 72	+84 84% 73	+115 84% 59	+108 81% 38	+17 75% 53	+2.9 79% 24	-7.4 50% 6	+50 76% 90	+8.0 72% 32	-1.0 73% 71	-3.4 74% 92	+1.0 66% 20	+3.4 76% 23	+0.38 67% 68	+9 84% 90	+0.64 76% 13	+0.68 76% 3	+0.76 73% 2	\$220 31	\$387 21		
DKKN43 NORK522 NKL F143	HARDHAT K522 NEBRASKA HBR	+0.02 44% 73	+7.8 77% 8	+6.9 66% 13	-10.0 94% 2	+1.9 95% 12	+60 93% 13	+101 92% 24	+138 91% 14	+132 87% 11	+12 82% 84	+5.2 88% 1	-6.3 58% 16	+75 89% 28	+2.7 87% 89	+0.3 86% 40	+0.2 88% 40	-0.3 79% 87	+0.2 89% 94	+0.16 81% 43	+14 91% 77	+0.76 90% 32	+0.86 90% 23	+0.88 85% 11	\$196 60	\$389 20		
NHZF1023 VTMB1 NHZB723	HAZELDEAN F1023 <sup>SV</sup> APR	-0.18 75% 11	+3.8 92% 36	+0.9 81% 72	-2.5 98% 79	+3.2 98% 32	+39 98% 92	+75 98% 91	+88 98% 96	+70 97% 90	+13 96% 78	+3.6 97% 10	-5.2 75% 36	+48 95% 93	+8.0 93% 32	+2.5 93% 8	-0.2 94% 47	+0.2 90% 66	+5.9 94% 2	+1.27 88% 99	+12 97% 83	+0.48 97% 3	+1.00 96% 56	+1.04 94% 53	\$212 41	\$337 60		
NHZM586 NHZJ140 NHZH356	HAZELDEAN M586 <sup>SV</sup> APR	-0.21 45% 7	+6.6 87% 14	+9.1 71% 3	-8.3 98% 6	+2.5 98% 20	+49 97% 60	+86 97% 68	+114 97% 61	+102 95% 48	+19 93% 35	+4.0 96% 6	-12.0 70% 1	+68 94% 48	+5.1 92% 67	+0.1 92% 45	+0.2 93% 40	+0.0 86% 76	+4.4 93% 9	+0.79 87% 94	+39 96% 4	+0.48 94% 3	+0.92 94% 36	+1.16 90% 85	\$274 2	\$464 1		
NHZP434 NHZJ140 NHZL527	HAZELDEAN P434 <sup>SV</sup> APR	+0.00 47% 67	+8.6 77% 5	+6.4 64% 16	-7.1 97% 14	+2.0 96% 13	+46 94% 74	+86 95% 67	+111 94% 66	+96 89% 57	+21 79% 21	+2.9 93% 24	-7.5 61% 5	+69 89% 46	+2.2 88% 91	+0.3 87% 40	-3.8 88% 94	+0.9 80% 24	+1.7 90% 64	+0.65 82% 88	+46 91% 1	+0.58 88% 7	+0.98 88% 51	+1.02 83% 46	\$202 52	\$364 38		
NHZQ1229 NHZF1023 NHZJ823	HAZELDEAN Q1229 <sup>PV</sup> APR	-0.04 50% 53	+0.8 77% 63	+4.1 63% 39	-3.6 98% 63	+3.7 98% 43	+55 95% 28	+101 94% 22	+125 90% 37	+76 85% 86	+21 78% 21	+4.6 93% 3	-6.9 53% 9	+77 81% 23	+9.2 75% 21	-1.3 76% 77	-1.8 77% 75	+0.4 69% 54	+4.3 78% 10	+0.59 69% 85	+28 94% 23	+0.76 78% 32	+0.98 78% 51	+0.92 75% 18	\$269 3	\$413 9		
Breed Average EBVs			-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	

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### Breed Average EBVs

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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		
NZCP117	KO B074 BEAST MODE P117 <sup>PV</sup>	+0.08	+2.0	+6.5	-5.7	+1.7	+61	+101	+124	+123	+9	+2.3	-4.7	+63	+1.5	+0.4	-0.6	-0.8	+4.0	+0.57	+14	+0.72	+0.60	+0.82	\$209	\$379		
USA17960722	HBR	38%	78%	66%	98%	97%	95%	96%	94%	87%	79%	91%	55%	81%	85%	83%	83%	78%	84%	69%	89%	87%	87%	83%				
NZCM67		88	53	16	30	10	11	23	38	19	96	43	48	62	94	38	54	97	14	84	77	25	1	5	44	27		
VLJR1549	LAWSONS ASHLAND R1549 <sup>SV</sup>	+0.05	-3.3	-3.4	-6.4	+3.8	+60	+106	+135	+113	+12	+0.2	-0.1	+83	+16.0	-1.8	-1.4	+1.1	+4.1	+0.57	+22	+1.10	+0.94	+0.78	\$221	\$350		
USA18217198	HBR	39%	76%	65%	91%	91%	89%	85%	85%	83%	78%	81%	49%	77%	73%	74%	67%	76%	65%	85%	69%	69%	66%					
VLYP251		81	87	94	21	46	12	14	18	30	84	97	99	12	1	85	69	16	13	84	44	91	41	3	30	50		
VLJR131	LAWSONS CHARLIE N131 <sup>SV</sup>	+0.20	-3.7	-1.2	-3.9	+5.4	+72	+127	+158	+125	+20	+2.9	-4.4	+79	+5.6	-1.8	-1.7	+0.0	+1.0	+0.35	+32	+0.88	+0.74	+0.88	\$229	\$388		
USA16295688	HBR	39%	79%	72%	95%	96%	95%	94%	92%	88%	84%	91%	65%	87%	86%	86%	87%	79%	88%	80%	94%	92%	92%	88%				
VLYL710		99	88	86	58	80	1	1	2	16	27	24	55	19	61	85	74	76	82	65	12	58	7	11	23	21		
VLJR483	LAWSONS LINKEDIN L483 <sup>SV</sup>	-0.05	+4.6	-6.2	-1.2	+4.0	+57	+108	+151	+138	+26	+4.0	-4.1	+103	+9.2	-1.0	+2.0	+0.3	+1.8	-0.18	+21	+1.00	+0.80	+0.86	\$206	\$378		
HKFJ5	HBR	47%	87%	77%	98%	98%	97%	97%	97%	95%	94%	94%	67%	92%	89%	88%	91%	84%	91%	82%	88%	85%	85%	81%				
VLYH221		49	29	98	91	50	22	11	4	7	4	6	63	1	21	71	15	60	61	12	46	79	13	8	48	27		
VLYQ44	LAWSONS MIRACULOUS Q44 <sup>PV</sup>	-0.06	+4.4	-2.1	-7.1	+3.8	+49	+91	+112	+104	+10	+3.2	-3.5	+49	+21.2	+0.4	+0.5	+2.0	+2.6	+1.01	+37	+1.00	+0.96	+0.98	\$238	\$387		
VLYM518	HBR	40%	76%	65%	97%	96%	93%	93%	91%	86%	78%	90%	53%	81%	80%	81%	81%	75%	82%	68%	84%	71%	71%	68%				
VLYK914		45	31	90	14	46	57	53	66	45	94	17	76	92	1	38	35	2	40	98	6	79	46	33	15	21		
VLYM518	LAWSONS MOMENTOUS M518	+0.05	-2.6	-2.7	-5.3	+4.0	+50	+92	+112	+84	+22	+2.7	-3.0	+49	+12.6	-0.5	+0.2	+0.3	+5.7	+0.85	+37	+0.92	+1.02	+1.14	\$221	\$338		
USA17354145	HBR	43%	97%	89%	99%	99%	99%	99%	99%	98%	98%	99%	78%	96%	95%	96%	96%	93%	95%	89%	99%	99%	99%	98%				
VLYH229		81	84	92	36	50	56	50	65	76	13	29	84	92	5	59	40	60	2	95	6	66	61	81	31	60		
VLYP316	LAWSONS PROPHET P316 <sup>PV</sup>	+0.00	+5.8	+5.7	-2.3	+3.3	+57	+88	+104	+60	+17	+0.3	-3.9	+68	+11.3	-3.9	-4.0	+1.7	+3.8	+0.13	+29	+0.62	+0.72	+0.86	\$275	\$398		
USA16295688	HBR	41%	77%	69%	93%	96%	94%	93%	89%	85%	79%	90%	58%	81%	80%	80%	80%	75%	82%	71%	93%	88%	88%	84%				
VLYM527		67	19	22	81	34	22	62	80	95	52	96	67	47	9	99	95	3	16	40	19	11	5	8	2	15		
VLJR4010	LAWSONS ROCKY R4010 <sup>PV</sup>	-0.14	+6.4	+5.9	-4.6	+2.7	+53	+92	+121	+93	+23	+2.4	-4.4	+71	+11.9	+2.0	+1.8	+0.2	+4.6	+1.36	+23	+0.90	+1.04	+1.02	\$254	\$410		
USA17354145	HBR	41%	80%	66%	99%	98%	97%	97%	93%	88%	80%	95%	56%	82%	84%	83%	83%	78%	84%	70%	97%	91%	91%	88%				
VLYP4005		19	15	21	47	23	37	47	44	63	12	39	55	39	7	12	17	66	7	99	39	62	66	46	7	10		
VLJR1217	LAWSONS ROMULUS R1217 <sup>PV</sup>	+0.06	+3.0	+6.6	-5.6	+3.7	+64	+107	+147	+112	+17	+1.4	-2.4	+82	+10.9	-4.4	-4.5	+1.3	+4.1	+0.41	+14	+1.18	+1.12	+0.94	\$261	\$418		
USA18217198	HBR	37%	75%	64%	93%	90%	85%	83%	83%	81%	76%	80%	49%	73%	72%	72%	72%	66%	75%	64%	78%	71%	71%	68%				
VLYN976		84	44	15	31	43	6	12	6	32	52	76	91	13	10	99	97	10	13	71	78	96	81	22	5	7		
NMMD78	MILLAH MURRAH EQUATOR D78	+0.07	-1.3	+6.2	-9.1	+5.0	+62	+110	+157	+181	+18	+2.1	-4.2	+89	+2.0	-1.9	-3.6	+1.0	+0.1	-1.00	+22	+0.84	+0.96	+1.06	\$158	\$354		
USA14237157	HBR	74%	96%	89%	99%	99%	98%	98%	98%	97%	98%	98%	80%	96%	95%	96%	96%	94%	95%	89%	98%	95%	95%	92%				
NMMY119		86	78	18	4	73	9	8	3	1	39	50	60	6	92	86	93	20	95	1	43	49	46	59	89	47		
NMMH250	MILLAH MURRAH HERCULES	-0.21	-3.6	+3.1	-2.9	+6.0	+42	+75	+106	+93	+12	+2.5	-4.7	+59	+3.1	-1.4	-0.5	+0.4	+2.4	+0.16	+17	+0.92	+1.16	+1.08	\$153	\$271		
NMME78	HBR	55%	86%	73%	98%	98%	97%	97%	97%	94%	94%	95%	65%	92%	91%	90%	91%	87%	92%	84%	91%	89%	89%	84%				
NMME120		7	88	51	74	88	86	91	77	64	84	36	48	73	86	79	53	54	45	43	65	66	87	65	91	92		
NMMK35	MILLAH MURRAH KINGDOM K35	+0.04	-11.9	-7.0	-2.0	+8.8	+54	+99	+137	+148	+12	+0.8	-5.0	+62	+7.7	+0.0	+0.1	+1.1	-1.1	-0.76	+26	+0.82	+1.26	+1.18	\$129	\$263		
NZE469	HBR	46%	96%	89%	99%	99%	98%	98%	98%	98%	98%	98%	80%	96%	95%	95%	95%	93%	95%	89%	98%	96%	96%	94%				
NMMG41		79	99	99	84	99	34	29	16	4	85	90	40	66	35	47	42	16	99	1	28	45	95	88	97	94		
NMMK42	MILLAH MURRAH KLOONEY K42	+0.00	+4.1	+1.9	-6.1	+5.6	+47	+86	+107	+90	+23	+2.2	-6.2	+64	+6.5	-1.2	-3.1	+1.3	+1.9	+0.00	+18	+0.82	+0.90	+1.06	\$210	\$350		
NGMT30	HBR	46%	96%	89%	99%	99%	98%	99%	98%	98%	98%	98%	82%	96%	95%	96%	96%	94%	95%	89%	98%	97%	97%	95%				
NMMH4		67	34	63	24	83	68	68	75	67	11	47	17	60	49	75	90	10	59	26	60	45	31	59	44	50		
Breed Average EBVs			-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	



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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		
NMML133 USA17091363 NMMH49	MILLAH MURRAH LOCH UP L133 HBR	-0.17 40% 13	+4.5 80% 30	+4.2 81% 38	-5.5 99% 32	+4.8 99% 69	+58 98% 17	+100 98% 26	+131 98% 23	+100 98% 51	+26 98% 4	+2.1 98% 50	-1.6 80% 96	+80 96% 17	+1.6 95% 94	-2.2 95% 90	-4.2 96% 96	-0.6 94% 94	+1.8 95% 61	-0.15 89% 14	+32 98% 11	+0.70 97% 21	+1.08 97% 74	+1.16 96% 85	\$163 86	\$300 83		
NMMM308 NZE14647008839 NMMH331	MILLAH MURRAH MILESTONE HBR	+0.12 44% 93	+6.5 83% 14	+5.6 73% 23	-7.5 97% 11	+4.5 97% 62	+43 96% 82	+79 96% 85	+92 95% 93	+81 94% 80	+19 91% 35	+2.7 95% 29	-5.6 67% 27	+43 90% 96	+4.4 89% 74	+2.5 88% 8	+5.0 89% 2	-0.4 83% 90	+2.1 90% 53	+0.10 79% 37	+19 95% 54	+0.82 83% 45	+0.98 84% 51	+1.22 81% 93	\$195 61	\$339 59		
NJWH194 WDCE11 VTMX64	MILWILLAH ELEVATOR H194 <sup>SV</sup> HBR	-0.10 42% 31	-7.0 78% 95	-6.5 70% 98	-0.9 93% 92	+8.2 93% 99	+50 92% 52	+102 92% 21	+137 92% 16	+162 88% 2	+19 84% 37	+2.0 86% 54	+1.3 63% 99	+56 88% 81	+4.2 87% 77	-2.6 87% 93	+0.5 88% 35	+0.9 82% 24	-1.1 89% 99	-0.30 81% 7	+41 85% 3	+0.20 87% 1	+0.46 87% 1	+0.88 81% 11	\$65 99	\$201 99		
NJWH283 NJWF189 NJWE51	MILWILLAH ELSOM H283 <sup>PV</sup> HBR	-0.06 57% 45	+1.1 82% 61	-5.7 70% 98	-2.3 97% 81	+3.9 97% 48	+47 96% 67	+83 96% 75	+122 95% 43	+106 92% 42	+21 93% 19	+1.8 94% 62	-1.6 63% 96	+75 92% 28	+9.5 91% 19	-2.5 91% 93	-2.7 91% 86	+1.6 86% 4	+1.5 92% 70	+0.39 85% 69	+20 88% 51	+0.76 89% 32	+0.84 90% 19	+1.04 85% 53	\$159 88	\$279 90		
BWFQ33 USA18181757 BWFN9	MOOGENILLA QUINELLA Q33 <sup>PV</sup> HBR	-0.18 39% 11	+2.1 81% 52	+10.0 65% 1	-6.4 99% 21	+3.8 99% 46	+58 98% 18	+116 98% 4	+147 95% 6	+82 88% 79	+26 79% 4	+3.0 97% 21	-2.8 54% 87	+101 82% 1	+11.4 86% 8	-1.1 84% 73	-0.2 85% 47	+0.1 79% 72	+4.6 85% 7	+0.72 70% 91	+32 97% 12	+0.86 92% 53	+0.94 92% 41	+0.90 88% 14	\$274 2	\$422 6		
BWFQ33 USA18181757 BWFN9	MOOGENILLA QUINELLA Q33 <sup>PV</sup> HBR	-0.18 39% 11	+2.1 81% 52	+10.0 65% 1	-6.4 99% 21	+3.8 99% 46	+58 98% 18	+116 98% 4	+147 95% 6	+82 88% 79	+26 79% 4	+3.0 97% 21	-2.8 54% 87	+101 82% 1	+11.4 86% 8	-1.1 84% 73	-0.2 85% 47	+0.1 79% 72	+4.6 85% 7	+0.72 70% 91	+32 97% 12	+0.86 92% 53	+0.94 92% 41	+0.90 88% 14	\$274 2	\$422 6		
EGRM39 HIOG18 EGRD9	MOSQUITO CREEK MAXIMUS HBR	-0.10 42% 31	+3.2 77% 42	+3.7 67% 44	-6.2 91% 23	+5.2 95% 77	+60 92% 13	+106 94% 13	+138 93% 14	+134 88% 10	+17 83% 48	+1.9 92% 58	-7.8 57% 4	+72 86% 36	+6.6 85% 48	+0.7 85% 32	+0.2 86% 40	+0.4 79% 54	+2.4 87% 45	+0.07 76% 33	+15 83% 72	+0.84 76% 49	+0.84 77% 19	+1.04 72% 53	\$252 8	\$440 3		
EGRQ53 USA18463791 EGRG2	MOSQUITO CREEK QUALITY Q53 HBR	+0.00 38% 67	+8.4 73% 5	+9.5 58% 2	-6.7 91% 18	+0.3 92% 3	+57 91% 21	+103 89% 19	+136 88% 16	+107 84% 39	+28 76% 2	+1.6 85% 69	-5.4 47% 31	+82 78% 13	+0.9 75% 96	-0.6 77% 62	-2.2 77% 81	-0.2 70% 84	+1.7 78% 64	-0.06 62% 21	+30 85% 17	+1.06 70% 87	+1.14 70% 84	+1.06 63% 59	\$215 37	\$388 21		
CSWH211 VTME343 CSWE175	MURDEDUKE HUSSAR H211 <sup>PV</sup> HBR	-0.22 43% 6	+1.2 83% 60	+4.7 74% 33	-8.8 97% 4	+6.0 96% 88	+60 95% 14	+117 95% 3	+153 95% 4	+166 92% 1	+13 91% 81	+4.0 94% 6	-5.2 67% 36	+82 91% 13	+1.9 90% 93	-2.0 90% 88	-5.4 91% 99	+0.8 85% 29	-0.6 92% 99	-0.70 84% 1	+31 95% 13	+0.52 95% 4	+0.86 95% 23	+1.02 93% 46	\$159 88	\$358 44		
CSWK428 VTME343 CSWE175	MURDEDUKE KICKING K428 <sup>PV</sup> HBR	-0.21 42% 7	+7.6 86% 8	+8.4 75% 5	-7.7 98% 10	+1.9 98% 12	+48 97% 64	+93 97% 45	+115 97% 59	+86 95% 73	+24 94% 8	+3.4 97% 13	-5.7 69% 25	+67 93% 52	+2.2 92% 91	-0.4 89% 57	-2.9 92% 88	+0.4 87% 54	+0.7 93% 87	-0.03 86% 23	+42 97% 3	+0.88 97% 58	+1.02 97% 61	+1.20 95% 91	\$191 65	\$345 54		
CSWQ011 VLYM518 CSWN026	MURDEDUKE QUARTERBACK HBR	+0.08 43% 88	+6.4 88% 15	+0.9 77% 72	-9.5 99% 3	+2.9 99% 26	+52 98% 41	+99 98% 29	+131 98% 25	+112 92% 32	+23 83% 12	+4.1 98% 5	-5.7 63% 25	+74 89% 30	+5.0 89% 68	+1.9 88% 13	+2.5 89% 11	-1.0 81% 98	+5.3 89% 3	+0.67 79% 89	+26 99% 29	+0.78 98% 36	+1.04 98% 66	+1.06 96% 59	\$227 24	\$399 14		
NURM208 SMPG357 NURK45	MURRAY GENESIS M208 <sup>PV</sup> HBR	-0.12 43% 25	+0.9 79% 63	+5.9 69% 21	-5.8 93% 28	+4.7 94% 67	+50 93% 52	+96 92% 38	+128 93% 29	+107 88% 39	+21 86% 22	+3.8 85% 8	-6.2 64% 14	+82 89% 17	+16.5 88% 1	-0.3 85% 55	-2.4 89% 83	+2.1 83% 1	+0.9 89% 84	+1.38 82% 99	+5 88% 96	+0.94 90% 69	+1.04 90% 66	+0.66 87% 1	\$236 17	\$396 16		
NURN70 NORK522 NURJ53	MURRAY KODAK N70 <sup>PV</sup> HBR	-0.04 47% 53	+1.9 80% 54	+4.7 67% 33	-6.7 98% 18	+4.0 97% 50	+56 96% 25	+102 96% 22	+134 95% 20	+139 89% 7	+15 82% 70	+5.2 96% 1	-6.3 62% 16	+79 90% 19	+9.2 89% 21	-1.2 88% 75	-1.5 89% 71	+0.9 81% 24	+3.7 91% 18	-0.32 83% 7	+14 96% 77	+0.96 91% 73	+0.90 91% 31	+0.92 87% 18	\$233 19	\$421 6		
Breed Average EBVs			-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	

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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			
NURM204	MURRAY PROCEED M204 <sup>PV</sup>	-0.39	-7.7	+7.2	-4.0	+4.3	+61	+106	+141	+133	+19	+2.2	-3.2	+90	+13.5	-4.7	-5.7	+0.8	+6.7	+0.10	+22	+0.96	+0.76	+0.90	\$226	\$375			
USA16956101	HBR	43%	81%	69%	96%	96%	94%	94%	94%	89%	84%	90%	63%	91%	90%	87%	90%	86%	91%	84%	93%	90%	90%	87%					
NURJ43		1	96	11	57	58	10	14	11	11	36	47	81	5	3	99	99	29	1	37	41	73	9	14	26	30			
NURP54	MURRAY TWINHEARTS P54 <sup>PV</sup>	+0.08	-0.8	+3.6	-6.0	+6.5	+69	+125	+166	+157	+24	+1.9	-4.2	+104	+8.3	-2.2	-3.9	+1.0	+3.0	+0.17	+17	+0.88	+1.26	+0.90	\$245	\$433			
USA16350631	HBR	41%	74%	64%	93%	91%	90%	89%	89%	86%	79%	82%	59%	85%	85%	86%	77%	87%	78%	86%	87%	87%	82%						
NURM13		88	75	45	26	93	2	1	1	2	7	58	60	1	29	90	95	20	31	45	67	58	95	14	11	4			
SFNL21	NAMPARA LIBERTY L21 <sup>SV</sup>	+0.03	-6.3	-3.6	-6.5	+8.7	+66	+111	+149	+160	+19	+2.9	-0.4	+79	+8.3	-1.9	-0.6	+1.8	-2.5	-0.64	+24	+0.86	+0.86	+0.98	\$135	\$283			
NZE10322010609	HBR	37%	86%	72%	98%	98%	97%	97%	97%	94%	94%	96%	62%	93%	92%	89%	92%	87%	93%	86%	94%	92%	92%	87%					
SFNH65		76	94	94	20	99	3	8	6	2	37	24	99	19	29	86	54	3	99	1	37	53	23	33	96	89			
WLGP5	NARANDA PIMP P5 <sup>SV</sup>	-0.09	+10.7	+8.6	-11.4	+1.8	+53	+99	+128	+97	+20	+1.7	-3.1	+82	+6.9	+1.4	+2.5	-0.3	+3.3	+0.33	-1	+0.70	+0.76	+1.08	\$229	\$390			
USA18229425	APR	37%	75%	61%	97%	95%	94%	93%	93%	87%	78%	87%	54%	89%	87%	86%	87%	78%	89%	82%	90%	87%	87%	82%					
WLG M24		34	1	4	1	11	39	28	30	57	25	66	83	14	44	19	11	87	25	63	99	21	9	65	23	19			
SKOJ6	NEWLYN PARK EMPEROR J6 <sup>PV</sup>	-0.01	-8.1	-5.2	-7.3	+7.4	+65	+112	+143	+160	+10	+1.4	-5.0	+80	+7.7	-1.1	-1.1	+1.3	+0.3	-0.68	+16	+1.08	+0.80	+0.78	\$187	\$348			
VTME343	HBR	44%	78%	69%	93%	92%	91%	90%	91%	87%	83%	85%	64%	87%	86%	86%	87%	80%	88%	79%	85%	85%	85%	81%					
NZCE115		63	97	97	12	97	5	7	9	2	94	76	40	17	35	73	64	10	93	1	68	89	13	3	69	51			
NZE21095018	NGAPUTAH I P206 <sup>SV</sup>	-0.22	+9.5	+5.1	-1.4	+0.2	+41	+84	+97	+69	+28	+2.6	-7.3	+52	+6.3	-0.4	-2.8	+1.2	+4.3	+0.21	+16	+0.96	+1.06	+1.14	\$244	\$388			
HIOE7	HBR	58%	79%	70%	93%	96%	95%	95%	94%	89%	82%	93%	67%	89%	89%	88%	89%	81%	90%	82%	87%	80%	81%	78%					
NZE21095112H49		6	2	28	89	3	87	73	89	91	2	32	6	88	52	57	87	12	10	49	68	73	70	81	12	21			
USA16981588	PA FULL POWER 1208 <sup>PV</sup>	-0.05	-5.6	-4.6	-4.9	+3.8	+52	+99	+120	+74	+13	+2.1	-2.4	+70	+13.0	-1.8	+0.2	+1.1	+3.2	+0.92	+20	+1.24	+0.98	+0.68	\$224	\$326			
USA16381311	HBR	44%	95%	85%	99%	98%	98%	98%	98%	98%	97%	98%	73%	95%	94%	94%	94%	92%	95%	87%	98%	98%	98%	91%					
USA16408070		49	93	96	42	46	41	29	47	87	78	50	91	41	4	85	40	16	27	97	50	98	51	1	27	68			
HKFE27	PARINGA IRON ORE E27 <sup>PV</sup>	-0.17	+6.9	+0.5	-6.8	+2.1	+35	+67	+90	+96	+12	+1.9	-7.3	+66	+6.9	+1.6	+2.5	+1.2	+1.7	+0.33	+31	+0.86	+0.94	+0.96	\$187	\$337			
VTMA149	HBR	81%	71%	66%	97%	96%	95%	95%	94%	91%	92%	92%	65%	91%	90%	90%	91%	84%	92%	84%	89%	84%	84%	79%					
FAFC1		13	12	76	17	14	97	97	95	58	84	58	6	53	44	16	11	12	64	63	13	53	41	27	69	61			
SMPG357	PATHFINDER GENESIS G357 <sup>PV</sup>	-0.13	+0.2	+4.2	-7.3	+6.7	+61	+108	+147	+139	+26	+4.4	-5.9	+94	+13.5	+0.5	-0.8	+1.4	+0.0	+0.66	+28	+0.86	+1.06	+0.78	\$226	\$406			
VTMB1	HBR	44%	97%	88%	99%	99%	99%	99%	99%	98%	98%	98%	84%	97%	96%	96%	96%	95%	95%	90%	98%	98%	98%	96%					
SMPD245		22	68	38	12	94	10	11	7	7	5	3	22	3	3	36	58	7	95	89	22	53	70	3	25	11			
SMPK22	PATHFINDER COMPLETE K22 <sup>SV</sup>	-0.04	+10.5	+9.2	-9.1	+0.8	+40	+73	+94	+44	+28	+3.0	-5.6	+51	+6.4	+3.6	+5.4	+0.3	+2.1	+0.51	+26	+0.50	+0.86	+0.66	\$233	\$357			
SMPG357	HBR	42%	93%	78%	99%	98%	98%	98%	98%	97%	97%	97%	74%	95%	94%	94%	94%	93%	94%	87%	97%	96%	96%	94%					
SMPH756		53	1	3	4	4	91	93	92	99	2	21	27	89	51	3	1	60	53	80	28	3	23	1	19	44			
SMPM651	PATHFINDER MASTERPIECE	+0.04	+1.8	+4.6	-5.6	+5.3	+58	+106	+133	+140	+20	+3.7	-7.7	+55	+9.4	-1.8	-3.8	+1.6	+1.5	-0.27	+34	+0.96	+1.22	+1.16	\$234	\$424			
VTMG67	HBR	46%	79%	71%	92%	95%	93%	92%	92%	88%	86%	88%	63%	88%	86%	86%	87%	80%	88%	80%	82%	77%	77%	74%					
SMPH66		79	55	34	31	78	20	14	21	7	29	9	4	82	19	85	94	4	70	8	9	73	93	85	18	5			
SMPM558	PATHFINDER MAXIMUS M558 <sup>PV</sup>	-0.03	-2.3	+2.7	-6.6	+6.0	+60	+100	+130	+140	+21	+4.7	-8.6	+53	+11.1	-2.5	-2.3	+0.9	+3.5	-0.35	+49	+0.94	+1.06	+0.86	\$242	\$423			
VTMG67	HBR	46%	84%	74%	96%	97%	95%	95%	95%	91%	91%	93%	66%	91%	90%	89%	91%	87%	91%	84%	86%	78%	79%	76%					
SMPH458		56	83	55	19	88	12	27	26	7	20	2	2	87	9	93	82	24	21	6	1	69	70	8	13	6			
SMPN56	PATHFINDER NUCLEUS N56 <sup>SV</sup>	-0.11	+3.5	+2.8	-3.3	+5.4	+60	+107	+139	+134	+16	+4.6	-7.3	+77	+13.2	+0.6	+0.6	+1.1	+1.5	+0.35	+9	+0.72	+0.80	+0.82	\$257	\$448			
HIOG18	HBR	43%	79%	68%	96%	97%	95%	95%	95%	90%	87%	93%	62%	91%	90%	90%	90%	82%	92%	85%	89%	85%	85%	81%					
SMPL179		28	39	54	68	80	12	12	13	10	58	3	6	23	3	34	33	16	70	65	90	25	13	5	6	2			
Breed Average EBVs			-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		

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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	
SMPP516 SMPM558 SMPJ282	PATHFINDER PHAT CAT P516 <sup>SV</sup> HBR	+0.02 43% 73	+5.7 74% 20	+2.8 63% 54	-7.6 96% 10	+4.4 96% 60	+52 94% 41	+89 94% 57	+118 94% 52	+87 87% 72	+25 78% 5	+5.3 91% 1	-9.6 57% 1	+49 86% 91	+12.1 84% 6	-3.2 84% 97	-2.7 85% 86	+0.8 78% 29	+6.0 87% 2	+0.15 79% 42	+40 92% 3	+0.78 85% 36	+1.12 84% 81	+0.96 79% 27	\$294 1	\$457 1	
SMPQ1357 NORL519 SMPM18	PATHFINDER QUEST Q1357 <sup>PV</sup> HBR	-0.23 40% 5	-3.5 76% 87	-0.4 66% 82	-6.4 94% 21	+5.3 95% 78	+63 93% 7	+116 91% 4	+162 89% 2	+177 85% 1	+17 78% 49	+1.8 86% 62	-5.0 56% 40	+82 80% 13	+4.7 76% 71	-1.2 77% 75	-2.4 78% 83	+0.5 72% 47	+3.9 79% 15	+0.42 67% 72	+30 88% 17	+0.88 70% 58	+0.74 70% 7	+1.02 70% 46	\$209 45	\$401 13	
NZE41-97 NZE53195 NZE63988	PINEBANK WAIGROUP 41/97 <sup>#</sup> HBR	+0.18 83% 98	+4.0 96% 34	-3.7 90% 94	-3.6 98% 63	+3.5 99% 39	+37 98% 95	+64 98% 99	+76 98% 99	+51 98% 98	+18 98% 38	+1.0 97% 86	-3.7 88% 72	+17 96% 99	+5.2 96% 65	+1.1 96% 24	+0.2 96% 40	+0.9 95% 24	+1.1 96% 80	-0.07 90% 20	+32 92% 12	+0.36 87% 1	+0.94 87% 41	+1.02 81% 46	\$156 89	\$245 96	
WQCQ47 VLYM518 VLYM1690	QUANDEN SPRINGS HBR	-0.06 41% 45	+9.9 76% 2	+7.7 65% 8	-9.3 91% 3	-0.8 92% 1	+51 90% 50	+98 89% 31	+131 88% 25	+119 85% 22	+29 78% 1	+5.1 85% 1	-5.1 53% 38	+48 79% 93	+12.0 77% 6	+1.5 78% 18	+1.1 78% 25	+0.3 71% 60	+3.2 79% 27	+0.23 68% 52	+26 88% 27	+1.08 70% 89	+1.12 74% 81	+1.10 71% 71	\$227 24	\$412 9	
NORE11 NGMY145 VLYY5	RENNYLEA EDMUND E11 <sup>PV</sup> HBR	-0.03 82% 56	+8.8 99% 4	+1.2 97% 70	-6.9 99% 16	+1.2 99% 6	+34 99% 98	+64 99% 98	+84 99% 97	+53 99% 97	+16 99% 56	+1.9 99% 58	-7.6 94% 5	+51 98% 89	+4.0 98% 78	+3.5 98% 3	+1.5 98% 20	-0.1 98% 81	+3.9 98% 15	+0.77 95% 93	+23 99% 37	+0.54 99% 5	+1.02 99% 61	+1.12 99% 76	\$204 51	\$324 70	
NORG255 BNAD145 NORC490	RENNYLEA G255 <sup>PV</sup> APR	-0.50 49% 1	-11.3 81% 99	-5.7 79% 98	-3.0 98% 72	+4.6 98% 64	+50 98% 55	+94 98% 44	+128 98% 30	+125 98% 16	+21 98% 22	+0.7 97% 92	-3.1 82% 83	+88 96% 6	+7.2 95% 41	-0.6 95% 62	-3.8 96% 94	+0.7 93% 35	+5.0 95% 5	-0.03 90% 23	+10 97% 89	+1.14 95% 94	+0.90 95% 31	+0.84 93% 6	\$158 89	\$272 92	
NORH708 NORC511 NORE176	RENNYLEA H708 <sup>PV</sup> APR	-0.02 55% 60	-7.1 93% 96	+2.6 84% 56	+1.2 98% 99	+4.7 98% 67	+48 98% 64	+102 98% 21	+130 98% 26	+129 97% 13	+12 96% 88	+2.5 97% 36	-3.5 79% 76	+73 96% 34	+12.5 95% 5	-3.8 95% 99	-6.4 95% 99	+2.2 93% 1	+7.1 95% 1	+0.68 92% 90	+20 98% 54	+0.72 98% 25	+0.70 98% 4	+0.92 97% 18	\$227 25	\$373 31	
NORK163 NORH106 NORE176	RENNYLEA K163 <sup>PV</sup> APR	-0.20 49% 8	+4.6 89% 29	-8.4 79% 99	-3.8 98% 60	+2.5 98% 20	+40 98% 91	+73 98% 93	+94 97% 92	+65 97% 93	+10 96% 93	+0.7 95% 92	-4.4 77% 55	+61 94% 70	+18.4 94% 1	-0.1 94% 50	-1.0 94% 62	+2.6 91% 1	+2.4 94% 45	+0.14 88% 41	+17 91% 63	+0.66 90% 15	+0.68 90% 3	+1.00 87% 39	\$230 22	\$336 61	
NORK835 NORG420 NORH514	RENNYLEA K835 <sup>PV</sup> APR	-0.24 46% 5	-4.3 83% 90	-4.5 70% 96	-2.0 98% 84	+6.3 95% 91	+47 96% 67	+87 95% 65	+112 95% 66	+94 91% 61	+12 89% 88	+3.1 90% 19	-4.5 64% 53	+55 90% 84	+10.0 89% 15	+1.0 89% 26	-1.2 89% 65	+0.4 86% 54	+4.2 90% 11	-0.21 81% 11	+11 91% 86	+0.62 89% 11	+1.10 89% 78	+1.12 86% 76	\$190 66	\$309 79	
NORK522 NORE11 NORF810	RENNYLEA KODAK K522 <sup>SV</sup> HBR	+0.10 55% 91	+8.8 94% 4	+9.0 83% 3	-4.9 99% 42	+1.3 99% 7	+45 98% 77	+83 98% 76	+109 98% 71	+110 97% 35	+10 97% 94	+4.7 98% 2	-6.8 74% 10	+51 95% 90	+3.2 93% 85	+3.0 94% 5	+1.4 94% 21	-0.3 91% 87	+3.9 94% 15	+0.34 88% 64	+7 96% 94	+0.62 97% 11	+0.82 96% 16	+0.96 95% 27	\$205 50	\$384 23	
NORL508 USA17366506 NORH414	RENNYLEA L508 <sup>PV</sup> HBR	-0.13 42% 22	+0.2 84% 68	+8.3 78% 5	-5.9 99% 27	+2.6 99% 21	+45 98% 75	+85 98% 71	+117 98% 54	+91 98% 67	+26 98% 4	+1.4 98% 76	-6.9 79% 9	+56 96% 81	+5.2 95% 65	+1.2 95% 22	+0.0 95% 43	-0.1 93% 81	+5.1 95% 4	+0.81 89% 94	+16 99% 69	+0.68 98% 18	+0.84 98% 19	+0.88 97% 11	\$228 23	\$373 30	
NORM1078 NORH708 NORF563	RENNYLEA M1078 <sup>SV</sup> APR	-0.15 46% 17	-5.6 78% 93	-0.1 68% 80	-1.8 97% 86	+3.3 96% 34	+41 95% 87	+83 95% 75	+103 95% 82	+101 93% 99	+11 89% 90	+1.9 93% 58	-4.7 64% 48	+59 91% 73	+10.3 90% 13	-1.8 90% 85	-5.2 91% 99	+1.0 83% 20	+7.8 92% 1	+0.71 84% 91	+10 94% 87	+0.94 91% 69	+1.02 92% 61	+1.14 89% 81	\$202 53	\$326 68	
NORP987 NORM763 NORM1184	RENNYLEA P987 <sup>PV</sup> APR	+0.11 42% 92	+10.3 74% 1	+9.7 64% 2	-7.9 97% 8	+1.3 97% 7	+49 96% 57	+96 95% 36	+121 95% 44	+122 92% 19	+8 85% 97	+0.4 92% 95	-2.7 60% 88	+71 89% 38	+5.7 88% 59	+3.4 87% 3	+2.3 88% 12	-1.0 80% 98	+7.7 90% 1	+0.97 80% 98	+6 95% 95	+0.86 91% 53	+0.92 91% 36	+1.06 86% 59	\$225 26	\$406 11	
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	



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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		
NORQ1081	RENNYLEA Q1081 <sup>PV</sup>	-0.02	-1.7	+5.4	-3.7	+3.8	+50	+89	+112	+98	+11	+3.3	-5.9	+48	+10.4	+0.3	-1.1	+0.8	+6.3	+0.75	+13	+0.86	+0.92	+0.84	\$250	\$396		
NORH708	APR	44%	76%	66%	92%	93%	92%	90%	89%	86%	79%	87%	57%	81%	79%	79%	80%	74%	81%	71%	89%	77%	79%	74%				
NORL841		60	80	25	62	46	52	59	65	55	90	15	22	93	13	40	64	29	1	92	81	53	36	6	8	16		
NORQ213	RENNYLEA Q213 <sup>PV</sup>	-0.06	+9.5	+6.8	-7.1	+1.1	+65	+119	+149	+93	+24	+0.7	-10.0	+102	+8.7	+0.6	+0.1	+0.2	+3.1	+0.72	+27	+0.56	+0.72	+0.84	\$340	\$528		
NORK907	APR	40%	78%	67%	97%	97%	97%	96%	95%	92%	84%	94%	57%	89%	87%	86%	87%	79%	88%	79%	96%	92%	92%	88%				
NORL110		45	2	13	14	6	4	3	5	63	7	92	1	1	25	34	42	66	29	91	23	6	5	6	1	1		
NORR992	RENNYLEA R992 <sup>PV</sup>	-0.07	+4.8	+6.9	+2.3	+1.3	+44	+84	+115	+82	+26	+1.8	-5.6	+69	+10.9	+1.7	+1.9	-0.1	+6.1	+1.20	+27	+0.58	+0.78	+0.84	\$252	\$399		
NORN542	APR	41%	67%	59%	95%	95%	92%	92%	88%	85%	78%	90%	50%	79%	79%	79%	80%	73%	81%	66%	90%	74%	75%	72%				
NORM1034		41	27	13	99	7	80	74	59	78	4	62	27	44	10	15	16	81	2	99	24	7	11	6	8	14		
TRHP52	RICHMOND HILL PLAY P52 <sup>SV</sup>	-0.36	+5.6	+3.6	+0.0	+4.0	+53	+93	+117	+122	+11	+4.3	-6.1	+74	+11.2	-4.9	-3.0	+1.6	+3.0	-0.36	+31	+1.06	+1.00	+1.02	\$233	\$410		
TRHL9	HBR	39%	72%	58%	93%	94%	92%	91%	92%	86%	75%	80%	53%	90%	89%	88%	89%	78%	91%	84%	86%	86%	86%	81%				
TRHH92		1	21	45	96	50	40	45	54	19	90	4	19	30	9	99	89	4	31	5	14	87	56	46	19	10		
NZE14572019	RISSINGTON SOVEREIGN Q485	-0.04	+10.6	+8.8	-6.6	+0.4	+62	+114	+149	+120	+20	+3.0	-3.7	+88	+8.5	-1.9	-4.1	+0.1	+6.0	+0.15	+7	+0.98	+1.00	+1.06	\$265	\$451		
HKFM103	HBR	41%	79%	60%	97%	96%	93%	86%	86%	82%	75%	79%	43%	76%	70%	71%	72%	62%	75%	62%	90%	65%	65%	63%				
NZE14572117009		53	1	4	19	3	8	5	5	22	27	21	72	7	27	86	95	72	2	42	93	76	56	59	4	2		
USA16396573	S A V CAMARO 9272 <sup>SV</sup>	-0.42	+4.0	+0.8	-6.7	+3.6	+48	+78	+99	+97	+9	+1.3	-6.6	+45	+0.6	-0.5	-2.4	+0.9	+1.6	+1.09	+20	+1.14	+0.82	+0.82	\$186	\$328		
USA0035	HBR	70%	86%	72%	97%	97%	96%	95%	96%	92%	94%	91%	62%	93%	91%	91%	91%	84%	93%	84%	86%	86%	86%	78%				
USA15688516		1	34	73	18	41	62	86	87	55	96	79	12	96	97	59	83	24	67	99	51	94	16	5	69	67		
NZE21159019	SEVEN HILLS 312/19 <sup>PV</sup>	+0.04	+2.1	+5.2	-7.6	+3.2	+51	+93	+117	+86	+20	-1.0	-1.9	+69	+8.5	-4.1	-5.0	+1.0	+4.1	+0.82	+6	+1.04	+0.92	+0.96	\$215	\$340		
USA18217198	HBR	39%	75%	64%	92%	91%	89%	87%	86%	83%	77%	81%	47%	77%	74%	74%	75%	67%	77%	65%	86%	74%	74%	70%				
NZE21159117053		79	52	27	10	32	48	44	53	74	26	99	94	45	27	99	98	20	13	95	95	85	36	27	38	58		
APBK11	SHACORRAHDALU KINETIC K11	+0.03	+10.0	+10.3	-9.1	+0.4	+49	+88	+103	+94	+9	+4.5	-7.0	+64	+10.3	+3.4	+2.2	+0.8	+2.1	+0.86	-1	+0.94	+1.14	+1.08	\$246	\$422		
VTMB1	HBR	49%	77%	70%	92%	92%	90%	90%	90%	87%	82%	84%	64%	85%	84%	84%	85%	77%	86%	78%	85%	82%	81%	78%				
APBF2		76	2	1	4	3	58	61	82	61	95	3	8	61	13	3	13	29	53	96	99	69	84	65	10	6		
APB21S24	SHACORRAHDALU PHOENIX	+0.10	+8.5	+6.2	-8.1	-0.8	+54	+100	+131	+82	+26	+2.7	-7.7	+88	+5.0	+2.3	+4.1	-0.1	+1.9	+0.82	+12	+0.90	+1.08	+1.06	\$271	\$437		
USA18636106	HBR	46%	74%	63%	93%	91%	86%	84%	85%	82%	78%	81%	50%	76%	73%	74%	74%	67%	77%	68%	80%	71%	71%	67%				
APBJ23		91	5	18	7	1	35	26	23	79	4	29	4	7	68	9	3	81	59	95	83	62	74	59	2	3		
APBR5	SHACORRAHDALU ROYALE R5	-0.13	+7.8	+7.7	-6.7	+2.0	+48	+93	+115	+68	+23	+2.4	-6.8	+70	+9.6	+3.2	+3.9	+0.4	+3.2	+0.80	+14	+0.78	+1.00	+0.76	\$279	\$433		
TFAK132	HBR	42%	76%	64%	93%	93%	91%	87%	86%	83%	77%	82%	50%	77%	72%	73%	73%	66%	76%	65%	87%	77%	73%	69%				
HBUP80		22	8	8	18	13	62	46	57	92	10	39	10	41	18	4	4	54	27	94	78	36	56	2	2	4		
SYAN340	STONEY POINT NOLTE N340 <sup>SV</sup>	+0.22	-1.5	-6.3	-5.9	+6.1	+71	+128	+166	+161	+20	+3.6	-2.5	+109	+5.5	-3.1	-5.2	+0.7	+2.9	-0.17	+6	+0.96	+0.88	+1.22	\$207	\$382		
SYAL178	HBR	39%	76%	66%	96%	96%	95%	96%	95%	90%	83%	92%	58%	88%	86%	86%	87%	78%	88%	76%	88%	87%	87%	84%				
SGMK250		99	79	98	27	89	1	1	1	2	29	10	90	1	62	96	99	35	33	13	95	73	27	93	47	24		
SYAP147	STONEY POINT PERRY P147 <sup>PV</sup>	+0.13	+4.7	+1.6	-4.6	+4.6	+56	+102	+133	+106	+21	+1.8	-7.2	+97	+10.2	-1.2	-0.7	+0.5	+3.8	-0.21	+8	+0.86	+0.82	+0.70	\$269	\$436		
USA17936442	HBR	44%	74%	60%	93%	93%	92%	91%	91%	86%	78%	86%	56%	88%	87%	87%	88%	78%	90%	80%	88%	84%	84%	76%				
SWAH233		94	28	66	47	64	25	20	21	40	21	62	7	2	14	75	56	47	16	11	93	53	16	1	3	3		
NZE19507018	STORTH OAKS FULLY LOADED	-0.10	+7.9	+7.1	-11.4	+1.1	+44	+86	+130	+131	+19	+3.3	-6.9	+62	+2.4	+1.0	+0.3	-0.5	+3.6	+0.93	+30	+0.54	+0.78	+1.00	\$185	\$373		
NORL508	HBR	45%	75%	64%	97%	97%	95%	95%	95%	88%	80%	93%	58%	89%	88%	88%	89%	80%	90%	82%	93%	81%	81%	78%				
NZE19507113J320		31	7	11	1	6	81	68	25	12	32	15	9	65	90	26	38	92	20	97	17	5	11	39	71	31		
Breed Average EBVs			-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345	

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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		
NZE19507013	STORTH OAKS JACK J7 <sup>SV</sup>	-0.22	+5.2	+8.0	-4.8	+4.5	+61	+113	+151	+140	+17	+3.5	-1.2	+82	+8.4	-0.2	-3.0	-0.3	+2.4	+0.03	+18	+0.98	+0.96	+0.92	\$184	\$364		
VTME343	HBR	42%	88%	79%	98%	98%	97%	97%	97%	95%	94%	96%	69%	93%	92%	92%	93%	90%	93%	86%	96%	93%	93%	89%				
NZE19507111G183		6	24	7	43	62	10	6	4	6	48	12	97	14	28	52	89	87	45	29	60	76	46	18	71	38		
VSNG34	STRATHEWEN BERKLEY G34 <sup>PV</sup>	+0.22	+6.2	+7.4	-6.2	+3.8	+56	+107	+142	+148	+18	+2.3	-7.6	+83	+5.8	+0.9	+0.0	+0.3	+1.7	-0.12	+32	+1.12	+1.26	+1.10	\$229	\$437		
VTMB1	HBR	48%	83%	74%	95%	94%	93%	92%	93%	90%	88%	87%	68%	90%	90%	89%	90%	86%	91%	85%	89%	88%	88%	84%				
VSNE22		99	16	10	23	46	24	12	10	4	41	43	5	13	58	28	43	60	64	16	12	92	95	71	23	3		
USA17236055	SYDGEN BLACK PEARL 2006 <sup>PV</sup>	-0.06	+2.3	+8.1	-7.0	+3.2	+51	+85	+123	+85	+21	+1.6	-3.6	+75	+8.6	+0.5	+0.1	+0.4	+2.6	+0.19	+15	+1.04	+1.18	+1.14	\$216	\$349		
USA15354674	HBR	38%	98%	93%	99%	99%	99%	99%	99%	98%	99%	99%	88%	98%	97%	97%	97%	96%	97%	92%	99%	99%	99%	98%				
USA16214508		45	51	6	15	32	47	70	40	75	19	69	74	28	26	36	42	54	40	47	72	85	89	81	36	51		
VTMA149	TE MANIA ADA A149 <sup>PV</sup>	-0.03	-7.0	-2.3	-3.2	+6.5	+53	+97	+129	+170	+10	+2.0	-2.0	+82	+2.9	-3.2	-1.9	+1.4	-0.4	-0.66	+27	+0.88	+0.76	+0.78	\$96	\$250		
VTMX60	HBR	58%	97%	91%	99%	99%	99%	99%	99%	98%	98%	98%	86%	97%	96%	97%	97%	96%	96%	91%	97%	97%	97%	96%				
VTMU338		56	95	90	69	93	40	34	27	1	94	54	94	14	87	97	76	7	98	1	26	58	9	3	99	96		
VTMK52	TE MANIA KALIBROOK K52 <sup>PV</sup>	-0.02	+7.7	+5.0	-3.0	+1.5	+52	+103	+129	+104	+29	+1.7	-5.9	+72	+3.2	+0.6	+2.1	-0.7	+5.4	+1.42	+9	+1.18	+1.10	+1.10	\$249	\$421		
USA16295688	HBR	39%	78%	69%	94%	95%	92%	92%	91%	87%	82%	87%	65%	87%	86%	84%	87%	82%	88%	79%	86%	89%	89%	86%				
VTMH423		60	8	29	72	8	42	19	28	44	1	66	22	35	85	34	14	96	3	99	90	96	78	71	9	6		
VTMK138	TE MANIA KIRBY K138 <sup>PV</sup>	+0.00	+0.3	+6.8	-1.2	+4.6	+51	+89	+118	+95	+18	+2.4	-9.2	+65	+5.9	+1.5	+3.3	-1.6	+8.3	+1.04	+12	+0.78	+0.76	+0.92	\$272	\$434		
USA16295688	HBR	37%	88%	79%	99%	99%	98%	98%	98%	97%	97%	98%	81%	97%	96%	95%	97%	94%	96%	88%	99%	99%	99%	98%				
VTMH17		67	67	13	91	64	47	58	51	59	38	39	1	56	57	18	6	99	1	99	82	36	9	18	2	4		
VTMN424	TE MANIA NEBO N424 <sup>PV</sup>	-0.27	+9.4	-0.4	-6.6	+4.0	+52	+99	+127	+101	+31	+4.4	-4.2	+56	+7.1	-1.0	-4.1	+0.5	+3.9	-0.12	+46	+0.98	+0.92	+0.94	\$208	\$359		
VTMJ89	HBR	40%	88%	82%	98%	98%	98%	98%	98%	97%	95%	97%	66%	96%	95%	94%	96%	88%	94%	83%	98%	98%	98%	97%				
VTMJ214		3	3	82	19	50	42	28	32	49	1	3	60	81	42	71	95	47	15	16	1	76	36	22	45	43		
VTMN1387	TE MANIA NEON N1387 <sup>SV</sup>	-0.20	-0.6	+2.8	-6.0	+3.7	+49	+87	+109	+94	+19	+1.4	-8.4	+49	+2.6	+0.0	-1.5	-1.7	+9.1	+0.05	+26	+0.76	+0.82	+1.02	\$236	\$383		
VTMK138	HBR	40%	80%	69%	98%	98%	97%	97%	96%	93%	84%	95%	58%	89%	89%	87%	89%	81%	88%	71%	97%	95%	95%	94%				
VTML452		8	73	54	26	43	60	64	72	61	36	76	2	91	89	47	71	99	1	31	28	32	16	46	17	23		
VTMP888	TE MANIA PESO P888 <sup>PV</sup>	-0.20	+8.3	+6.4	-5.1	+1.9	+56	+113	+143	+118	+25	+2.1	-6.2	+89	+5.5	-0.4	+1.2	+0.6	+1.5	-0.01	+26	+0.84	+1.10	+1.00	\$254	\$442		
VTMK226	HBR	41%	84%	75%	98%	97%	97%	97%	97%	95%	90%	92%	62%	93%	92%	91%	92%	84%	92%	82%	95%	93%	94%	90%				
VTMH423		8	6	16	39	12	26	6	10	24	5	50	17	6	62	57	24	41	70	25	26	49	78	39	7	2		
VTMQ854	TE MANIA QUEBEC Q854 <sup>SV</sup>	-0.05	+8.4	+2.8	-2.6	+1.5	+52	+92	+123	+80	+28	+1.3	-3.3	+62	+4.9	+0.8	+2.3	-0.4	+4.1	+0.58	+29	+0.68	+0.84	+0.78	\$228	\$365		
USA18229488	HBR	37%	84%	67%	98%	98%	97%	97%	94%	90%	81%	95%	50%	81%	84%	83%	83%	77%	83%	66%	96%	94%	94%	92%				
VTML1244		49	5	54	78	8	41	49	40	82	2	79	80	67	69	30	12	90	13	84	19	18	19	3	23	37		
VTMR970	TE MANIA RESOLUTION R970 <sup>PV</sup>	-0.08	+0.6	+4.5	-4.1	+3.6	+60	+108	+137	+101	+22	+2.2	-6.8	+80	+10.3	-0.1	+0.0	+0.9	+2.6	-0.04	+21	+0.74	+0.94	+1.22	\$278	\$439		
VTMP149	HBR	39%	69%	58%	84%	89%	84%	82%	83%	81%	75%	79%	43%	72%	70%	70%	71%	62%	74%	61%	77%	76%	76%	73%				
VTMP287		38	65	35	55	41	14	10	15	50	17	47	10	18	13	50	43	24	40	23	46	28	41	93	2	3		
DXTR725	TEXAS ICEMAN R725 <sup>PV</sup>	-0.20	-0.4	+2.3	-4.0	+3.6	+53	+102	+124	+96	+12	+2.3	-3.9	+76	+13.4	+3.1	+4.6	+0.5	+1.9	+0.23	+36	+1.22	+1.00	+0.66	\$237	\$382		
USA18962396	HBR	37%	79%	60%	98%	98%	96%	96%	91%	86%	79%	93%	50%	81%	82%	82%	82%	76%	82%	66%	93%	83%	83%	80%				
DXTH647		8	72	59	57	41	37	22	38	58	85	43	67	26	3	4	2	47	59	52	7	98	56	1	16	24		
USA18704096	THOMAS EDISON 6764 <sup>PV</sup>	+0.13	-1.6	+8.2	-0.3	+4.0	+62	+102	+136	+133	+13	+0.6	-4.3	+82	+12.0	-5.4	-8.3	+1.7	+2.4	-0.17	+21	+0.82	+1.00	+0.96	\$216	\$378		
USA16933958	HBR	37%	74%	61%	94%	93%	91%	91%	91%	87%	84%	86%	52%	88%	87%	86%	86%	77%	89%	78%	82%	89%	88%	74%				
USA18048451		94	79	6	95	50	9	21	17	11	79	93	58	14	6	99	99	3	45	13	45	45	56	27	36	27		
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		

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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		
DBLL292 USA16295688 VSNF04	TOPBOS LEADING EDGE L292 <sup>PV</sup> HBR	+0.08 40% 88	+1.7 88% 56	+7.2 74% 11	-5.7 98% 30	+6.6 98% 93	+73 97% 1	+126 97% 1	+164 97% 1	+149 95% 4	+22 95% 17	+1.4 96% 76	-4.1 69% 63	+83 93% 12	+4.4 90% 74	-2.5 92% 93	-5.1 87% 98	+0.2 92% 66	+1.3 86% 75	-0.01 86% 25	+21 97% 46	+0.94 92% 69	+0.76 91% 9	+0.78 88% 3	\$225 27	\$412 9		
NZE17691009 NZE17691003Y167 NZE17691195Q263	TURIHAUA CRUMP E5 <sup>SV</sup> HBR	+0.06 40% 84	-1.2 93% 77	-0.9 86% 84	-5.9 97% 27	+3.2 98% 32	+29 98% 99	+59 98% 99	+83 98% 98	+92 97% 65	+15 97% 69	+1.2 89% 81	-9.8 95% 1	+16 95% 99	-0.4 95% 98	+5.1 95% 1	+3.4 95% 6	-0.3 93% 87	+1.5 95% 70	+0.43 88% 73	+30 90% 16	+0.64 84% 13	+1.20 84% 91	+1.20 79% 91	\$136 96	\$267 93		
USA18066037 USA17262835 USA16924432	V A R LEGEND 5019 <sup>SV</sup> HBR	-0.01 37% 63	-4.2 80% 90	+5.1 68% 28	-6.2 96% 23	+5.3 96% 78	+68 94% 2	+122 94% 2	+147 93% 7	+157 90% 2	+8 87% 98	+2.7 89% 29	-3.5 61% 76	+87 90% 8	+9.9 88% 16	-4.0 87% 99	-6.1 87% 99	+1.3 80% 10	+2.2 90% 50	-0.28 79% 8	+18 89% 59	+1.04 97% 85	+0.68 96% 3	+0.88 81% 11	\$211 42	\$391 19		
NZE18954020 NZE21159016327 NZE18954118P105	WAITANGI R257 <sup>PV</sup> HBR	-0.15 39% 17	+0.7 68% 64	-0.8 58% 84	-6.8 95% 17	+3.7 95% 43	+54 89% 36	+93 89% 47	+127 87% 32	+105 84% 43	+26 76% 5	+3.2 84% 17	-7.4 46% 6	+69 77% 46	+8.7 76% 25	-0.3 77% 55	-1.4 77% 69	+0.0 70% 76	+5.5 78% 3	+1.27 64% 99	+21 75% 48	+0.82 71% 45	+0.70 71% 4	+0.94 63% 22	\$246 10	\$400 14		
BSCF73 USA15688392 BSCZ66	WAITARA PIO FEDERAL F73 <sup>SV</sup> HBR	+0.14 77% 95	+4.5 90% 30	+5.1 77% 28	-4.3 98% 52	+1.6 98% 9	+56 97% 26	+102 98% 20	+134 97% 20	+88 96% 71	+24 96% 8	+2.5 97% 36	-2.9 70% 86	+88 95% 7	+5.5 94% 62	-0.2 94% 52	+0.1 94% 42	+0.2 89% 66	+1.5 94% 70	+0.31 88% 61	+11 96% 85	+1.40 95% 99	+1.26 95% 95	+0.96 92% 27	\$218 33	\$361 41		
BSCP90 GTNM6 BSCJ2	WAITARA PRINCETON P90 <sup>PV</sup> HBR	-0.06 40% 45	-0.2 73% 71	+4.8 62% 32	-2.2 96% 82	+3.7 95% 43	+48 94% 63	+94 95% 43	+123 94% 40	+79 89% 83	+24 82% 8	+2.3 92% 43	-3.8 55% 70	+80 89% 18	+7.4 87% 39	+0.0 87% 47	+0.2 88% 40	-0.2 79% 84	+3.9 90% 15	+0.66 80% 89	+35 92% 7	+0.62 90% 11	+0.84 90% 19	+1.00 86% 39	\$212 40	\$339 59		
LEJ21S102 NJWN498 ASHL24	WALLAWONG SAFE & SOUND HBR	+0.10 37% 91	+5.6 72% 21	+3.7 59% 44	-6.2 93% 23	+4.5 90% 62	+51 85% 47	+91 83% 53	+114 83% 60	+100 80% 51	+18 75% 41	+2.0 79% 54	-3.0 44% 84	+66 72% 53	+7.1 70% 42	-1.5 70% 80	-1.5 71% 71	+0.7 63% 35	+4.1 74% 13	+0.38 62% 68	+18 76% 62	+0.60 68% 9	+0.76 68% 9	+1.12 65% 76	\$215 37	\$362 40		
QKBP29 SMPG357 QKBM01	WARRAWEE PATROL P29 <sup>PV</sup> HBR	+0.04 46% 79	+7.2 78% 10	+11.3 69% 1	-12.2 96% 1	+2.8 94% 24	+56 92% 26	+105 90% 16	+139 90% 13	+129 87% 13	+18 82% 38	+2.2 87% 47	-9.1 64% 1	+100 85% 2	+9.3 84% 20	+3.4 84% 3	+1.7 85% 18	+0.4 78% 54	+1.7 86% 64	+0.72 77% 91	+27 88% 26	+0.82 77% 45	+1.24 78% 94	+1.00 73% 39	\$269 3	\$479 1		
NWPG188 USA15462648 NWPE295	WATTLETOP FRANKLIN G188 <sup>SV</sup> HBR	+0.13 40% 94	+4.5 95% 30	+6.3 87% 17	-4.4 99% 50	+2.3 99% 17	+63 98% 6	+109 98% 10	+140 98% 12	+119 98% 22	+25 97% 6	+3.8 98% 8	-3.4 76% 78	+83 96% 13	+1.4 94% 95	-1.5 95% 80	-2.2 95% 81	-0.1 92% 81	+0.5 94% 90	-1.17 88% 1	+33 97% 10	+1.10 96% 91	+0.96 96% 46	+0.94 94% 22	\$188 67	\$355 46		
CWDJ17 BNAD145 CWDF14	WEATHERLY JAMES J17 <sup>SV</sup> HBR	-0.24 49% 5	-3.6 79% 88	-3.7 71% 94	-3.3 93% 68	+6.1 93% 89	+49 92% 57	+83 92% 76	+109 89% 70	+115 87% 27	+1 87% 99	+1.5 86% 73	-4.3 67% 58	+65 90% 58	+8.5 89% 27	+1.2 89% 22	+2.3 90% 12	+1.1 85% 16	+3.4 91% 23	-0.03 84% 23	+4 87% 97	+0.86 87% 53	+1.22 87% 93	+1.00 81% 39	\$200 55	\$334 63		
CWDM5 SMPG357 CWDJ15	WEATHERLY MOXY M5 <sup>SV</sup> HBR	-0.35 43% 1	+3.6 78% 38	+7.5 68% 9	-5.0 93% 40	+4.0 95% 50	+56 93% 27	+97 93% 33	+130 94% 26	+109 92% 36	+27 88% 3	+2.6 89% 32	-5.6 60% 27	+89 84% 6	+7.4 83% 39	+2.3 84% 9	-0.6 84% 54	+0.6 79% 41	+2.3 84% 48	+0.20 71% 48	+21 90% 48	+1.00 91% 79	+1.08 91% 74	+0.96 82% 27	\$233 19	\$397 16		
Breed Average EBVs		-0.05	+1.7	+2.8	-4.4	+4.0	+51	+92	+118	+101	+17	+2.2	-4.6	+67	+6.6	+0.0	-0.3	+0.5	+2.4	+0.23	+21	+0.84	+0.97	+1.03	+202	+345		



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