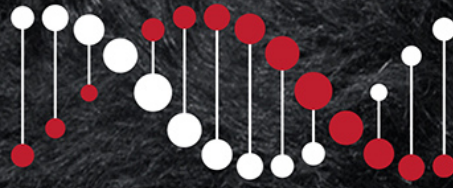


TACE



TransTasman Angus Cattle Evaluation

ANGUS ImmuneDEX

RESEARCH BREEDING VALUES

MID MARCH 2025

BACKGROUND

Angus Australia has partnered with the Commonwealth Scientific and Industrial Research Organisation (CSIRO) to undertake research into the genetics of traits related to immune competence and resilience. An animal's resilience is defined as their capacity to cope with environmental challenges, especially those leading to disease, and to subsequently return to being productive.

This has involved collecting and analysing immune competence phenotypes on ~4000 Angus steers and heifers at weaning, primarily from the Angus Sire Benchmarking Program (ASBP). This information, combined with genotypes (i.e. DNA profiles), was analysed to determine genetic parameter estimates (heritabilities and correlations) and to produce Research Breeding Values for immune competence.

More specifically, immune competence was assessed by combining measures of antibody-mediated immune responses (Ab_IR), through a blood test, and cell-mediated immune responses (Cell_IR), through a skin reaction test. Pathogens, like the bacteria and viruses associated with Bovine Respiratory Disease (BRD), differ in the way they infect the host animal. For instance, many bacteria live outside host cells while viruses replicate within host cells. The immune system tailors how it responds to different pathogens with extra-cellular pathogens most effectively controlled by Ab_IR and intracellular pathogens most effectively controlled by Cell_IR.

Individuals identified as having a balanced ability to mount both a Cell_IR and Ab_IR response are expected to exhibit broad-based disease resistance against a wide range of pathogens. For this reason, an index value (ImmuneDEX) has been developed which combines research breeding values for the Cell_IR and Ab_IR traits into a single value. The process by which the ImmuneDEX value is generated ensures appropriate weightings are given to component traits so that high ImmuneDEX animals have a balanced response, and genetic gains in both traits are driven at similar rates.

The ImmuneDEX value is moderately heritable and negatively correlated with some of the production traits (e.g. carcass weight and eye muscle area), while being favourably correlated with the stress and temperament related traits.

Additionally, on a subset 1149 steers from this study, disease incidence during the feedlot feeding period was examined. Prior vaccination and minimal mixing with unfamiliar animals at feedlot entry provided a low disease risk environment in the study. Nonetheless, animals with superior immune competence phenotypes had significantly fewer health-related mortalities, and incurred substantially lower health related costs during feedlot finishing.

UNDERSTANDING THE ImmuneDEX RBV

ImmuneDEX Research Breeding Values (RBVs) are provided in this publication for sires with (i) at least 50% accuracy for their ImmuneDEX RBV, and (ii) one or more progeny born in the last two years.

The ImmuneDEX RBV provides an estimate of genetic differences between animals for overall immune competence, a key component of resilience.

Higher ImmuneDEX RBVs indicate an animal is expected to produce progeny with an enhanced ability to resist disease challenges and therefore have lower disease incidence. Lower ImmuneDEX RBVs indicate an animal is expected to produce progeny with a higher incidence of disease and associated production losses.

USING THE RESEARCH BREEDING VALUES IN SELECTION

The ImmuneDEX RBVs in this publication will enable Angus breeders to place selection emphasis on immune competence and resilience traits, while continuing selection for other traits of importance within their breeding objective.

It is important to note that the RBVs for AB_IR and Cell_IR that underpin the ImmuneDex values are subject to greater potential change than EBVs routinely reported as part of the TransTasman Angus Cattle Evaluation (TACE), and ImmuneDEX RBVs should be used with caution in animal selection decisions.

ImmuneDEX RBVs, and the component Research Breeding Values for AB_IR and Cell_IR, may change as improvements are made to the analytical models that are used, and as additional performance information is collected and methodologies for assessing resilience traits continue to evolve.

ACKNOWLEDGEMENTS

Angus Australia gratefully acknowledges the ASBP co-operator herd owners for allowing access to animals for testing. Contributions of the Commonwealth Scientific and Industrial Research Organisation (CSIRO) are also acknowledged, and in particular, Dr Brad Hine, Dr Aaron Ingham, Dominic Niemeyer, Amy Bell, Dr Sonja Dominik, Dr Toni Reverter-Gomez, Dr Laercio Porto Neto and Dr Ian Colditz. Assistance provided by Bob Dent in the initial methodology development work is also gratefully acknowledged.

Meat and Livestock Australia (MLA) and the Australian Lot Feeders Association (ALFA) are acknowledged for co-funding projects related to the development and validation of the immune competence phenotyping methodology. MLA is further acknowledged for co-funding the Angus Sire Benchmarking Program (ASBP)

DISCLAIMER

The ImmuneDEX RBVs 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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Ident	Name																											
Sire Dam	Reg.	ImmuneDEX IMD	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 NXOF43 NXOJ432	AJC L172 ^{SV} APR	+46 69% 51	+6.8 77% 16	+8.1 63% 8	-6.1 94% 26	+3.0 96% 29	+58 94% 22	+100 94% 32	+137 94% 19	+127 88% 17	+14 90% 72	+2.1 84% 52	-5.1 55% 42	+72 91% 42	+6.6 89% 48	-0.5 84% 62	+0.4 89% 38	+0.3 82% 53	+1.1 91% 81	-0.95 83% 1	+22 85% 47	+1.46 85% 99	+1.30 85% 98	+1.18 81% 89	\$214 43	\$394 21		
DGJG10 VTMB1 DGJZ15	ALLOURA GET CRACKING G10 ^{SV} HBR	+53 69% 39	+8.1 95% 8	+7.7 86% 10	-2.9 99% 75	+2.6 99% 22	+43 98% 85	+74 98% 93	+85 98% 98	+84 98% 79	+12 97% 85	-0.4 97% 99	-7.9 77% 4	+45 96% 96	+14.3 94% 2	+1.5 94% 20	+0.5 95% 37	+0.8 91% 24	+5.8 93% 2	+0.47 89% 75	+5 97% 96	+0.46 96% 2	+0.98 96% 54	+0.92 94% 20	\$264 5	\$416 10		
DGJL94 USA15832750 DGJH24	ALLOURA LOCK STOCK & HBR	+44 64% 55	+5.8 79% 23	+1.4 72% 71	-4.2 93% 55	+2.8 96% 26	+57 94% 27	+94 94% 49	+124 94% 43	+121 91% 22	+11 87% 89	+1.1 88% 85	-3.9 54% 71	+65 89% 60	+0.8 84% 96	+2.2 81% 11	-1.3 86% 68	+0.2 77% 59	+1.9 87% 62	-0.38 78% 5	+25 93% 35	+0.84 84% 50	+0.86 82% 25	+0.92 77% 20	\$184 75	\$343 62		
DGJQ30 WWEL3 DGJK117	ALLOURA QUINELLA Q30 ^{SV} HBR	+13 51% 98	+2.0 73% 58	+2.0 66% 66	+0.5 94% 98	+2.9 93% 27	+53 91% 46	+96 91% 41	+117 92% 58	+120 86% 24	+14 79% 76	+3.4 83% 14	-7.3 61% 8	+64 89% 65	+14.2 88% 2	+0.1 87% 48	+0.5 88% 37	+0.8 79% 24	+7.4 90% 1	+0.44 82% 72	+16 88% 72	+0.90 85% 62	+1.00 86% 59	+1.16 81% 86	\$283 1	\$460 2		
NAQA241 USA2928 NAQW38	ARDROSSAN EQUATOR A241 ^{PV} HBR	+49 80% 46	-1.3 99% 81	+3.0 98% 56	-4.4 99% 52	+4.1 99% 54	+49 99% 61	+91 99% 57	+121 99% 49	+108 99% 41	+20 99% 29	+3.2 99% 17	-8.9 95% 2	+87 99% 9	+8.2 98% 30	-2.0 98% 89	-0.3 98% 51	+1.2 98% 10	+1.6 98% 69	+0.65 96% 87	+25 99% 34	+0.48 99% 3	+0.84 99% 22	+1.00 99% 43	\$230 26	\$388 25		
NAQN329 NAQH318 NAQK30	ARDROSSAN HOLBROOK N329 HBR	+22 54% 89	-7.4 72% 97	+0.3 67% 79	-3.0 96% 74	+2.7 95% 24	+47 95% 73	+85 95% 74	+110 94% 72	+75 90% 88	+24 91% 9	+2.4 86% 40	-7.8 59% 5	+71 91% 43	+5.4 89% 63	+2.4 89% 9	+2.3 90% 13	-0.9 82% 96	+3.9 91% 18	+1.10 83% 99	+14 90% 79	+0.84 81% 50	+1.02 87% 64	+0.92 83% 20	\$205 54	\$320 77		
NAQH255 NORE11 NAQD17	ARDROSSAN HONOUR H255 ^{PV} HBR	+27 81% 83	-2.1 96% 84	-1.0 89% 86	-2.6 99% 79	+4.6 99% 66	+43 98% 85	+75 98% 93	+97 98% 91	+93 98% 65	+13 98% 82	+2.2 98% 48	-6.1 85% 22	+61 97% 73	+5.7 96% 59	+1.0 96% 28	-1.4 96% 70	+0.6 95% 35	+2.4 96% 49	+1.00 92% 98	+9 98% 91	+0.44 97% 2	+1.00 97% 59	+1.24 96% 96	\$169 86	\$293 88		
QQFH147 VTME343 NMMF123	ASCOT HALLMARK H147 ^{PV} HBR	+47 72% 50	-3.1 96% 88	+1.7 88% 69	-5.0 99% 42	+7.1 99% 97	+60 98% 16	+110 98% 11	+152 98% 5	+137 98% 9	+15 98% 71	+3.8 98% 8	-6.1 80% 22	+80 96% 20	-1.5 95% 99	+0.7 96% 34	-0.3 96% 51	-0.8 94% 95	+3.3 95% 29	+0.37 90% 65	+18 97% 62	+0.48 95% 3	+0.88 95% 30	+1.02 93% 49	\$199 61	\$368 40		
HIOE7 VTMB219 BVVB32	AYRVALE BARTEL E7 ^{PV} HBR	+41 85% 60	+8.8 99% 5	+9.3 97% 3	-4.4 99% 52	+1.8 99% 12	+49 99% 62	+86 99% 71	+113 99% 68	+76 99% 87	+26 99% 6	+2.5 99% 37	-9.1 94% 1	+63 98% 66	+8.3 98% 29	-0.4 98% 60	+0.6 98% 35	+1.1 98% 13	+3.6 98% 23	+0.26 96% 53	+4 99% 97	+1.04 99% 85	+1.00 99% 59	+1.14 99% 82	\$287 1	\$444 3		
NUIF32 NGMC196 NUID96	BONNY BROOKE FALCO F32 ^{SV} HBR	+49 53% 46	-4.2 67% 91	-10.5 55% 99	-0.1 91% 97	+6.1 89% 90	+54 91% 40	+84 89% 78	+109 91% 76	+93 84% 66	+18 78% 41	-0.4 77% 99	-2.1 52% 95	+65 84% 61	-2.2 82% 99	+2.2 82% 11	+1.4 83% 23	-1.2 73% 99	+2.1 82% 57	-0.37 73% 5	+20 81% 53	+1.00 79% 80	+0.92 79% 39	+1.08 74% 68	\$128 98	\$223 99		
HCAG013 VTMA217 VTMZ618	BOONAROO GRAVITY G013 ^{PV} HBR	+87 70% 2	+5.1 91% 29	+3.8 84% 48	-5.3 98% 38	+3.7 98% 45	+51 97% 52	+88 97% 68	+115 97% 63	+103 95% 49	+23 96% 14	+3.9 97% 7	-5.5 73% 33	+57 93% 81	+5.4 92% 63	-2.8 92% 95	-3.3 92% 91	+1.2 88% 10	+3.0 91% 35	-0.76 86% 1	+22 94% 48	+0.50 94% 3	+0.90 94% 34	+1.06 91% 62	\$212 46	\$364 44		
NGMN418 WWEL3 NGML471	BOOROOMOOKA JACKPOT N418 HBR	+24 50% 87	+2.6 71% 53	+7.1 66% 14	-8.8 95% 5	+5.3 97% 79	+63 96% 9	+112 96% 9	+138 96% 17	+134 94% 11	+5 89% 99	+3.5 94% 12	-7.3 63% 8	+80 89% 21	+8.6 87% 26	-0.6 87% 64	-0.2 88% 49	+0.7 81% 29	+2.7 88% 42	+0.27 80% 54	+28 95% 23	+1.32 93% 99	+1.06 93% 72	+1.04 87% 55	\$268 4	\$462 1		
NGMP96 WWEL3 NGMM566	BOOROOMOOKA PARAGON P96 HBR	+15 52% 96	-4.4 82% 92	+1.8 74% 68	-7.8 99% 10	+3.6 98% 42	+63 98% 9	+119 98% 3	+161 98% 2	+130 96% 14	+30 91% 1	+3.6 97% 11	-8.4 66% 3	+110 93% 1	+13.2 92% 3	-2.7 91% 94	-1.3 92% 68	+1.5 84% 5	+2.4 93% 49	+0.88 87% 96	+33 98% 12	+0.84 97% 50	+0.98 97% 54	+1.10 94% 73	\$288 1	\$466 1		
Breed Average EBVs		+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353		

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Ident	Name																												
Sire Dam	Reg.	ImmuneDEX IMD	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			
BOWK2 VTME343 NAQZ31	BOWMAN AUSTRALIA K2 ^{PV} HBR	+43 74% 57	+7.4 80% 12	+2.4 76% 62	-6.5 94% 21	+3.5 91% 40	+49 91% 64	+98 91% 35	+124 91% 43	+96 88% 61	+22 86% 16	+4.9 85% 2	-7.4 69% 7	+69 89% 49	+8.1 88% 31	+0.0 88% 50	-1.6 88% 73	+0.9 83% 20	+1.5 90% 72	-0.59 83% 2	+10 88% 88	+0.84 84% 50	+1.02 85% 64	+0.94 81% 25	\$226 30	\$388 25			
SRKK306 NJWG279 TFAD58	BOWMONT KING K306 ^{PV} HBR	+31 69% 77	-1.2 75% 80	-8.9 73% 99	-4.6 97% 49	+4.6 98% 66	+50 97% 60	+78 97% 88	+103 97% 85	+89 95% 71	+2 96% 99	-0.3 96% 99	-4.4 70% 60	+64 92% 63	+14.8 93% 2	-0.5 93% 62	-1.9 93% 77	+1.5 91% 5	+4.8 94% 7	+0.50 87% 77	+26 96% 32	+0.54 93% 5	+0.92 93% 39	+0.68 91% 1	\$232 24	\$346 59			
QBUG49 VTMB1 QBUE5	BURENDA GEIGER COUNTER HBR	+11 69% 99	+8.3 86% 7	+8.7 76% 5	-6.7 97% 19	+2.9 97% 27	+41 96% 90	+80 95% 85	+106 96% 81	+91 94% 69	+18 93% 47	+2.1 94% 52	-8.8 69% 2	+65 92% 62	+4.1 91% 78	+0.4 91% 41	-1.4 91% 70	+0.4 86% 47	+3.3 90% 29	+0.14 85% 40	+27 95% 29	+1.02 85% 82	+1.20 85% 92	+0.96 82% 31	\$218 38	\$379 32			
WLHD19 USA13058662 USA14311946	CHERYLTON STEWIE D19 ^{PV} HBR	+26 73% 84	+3.0 95% 49	+2.4 89% 62	-4.7 98% 47	+3.2 98% 33	+45 98% 78	+90 98% 61	+111 98% 72	+95 97% 62	+20 98% 31	+2.2 98% 48	-7.2 77% 9	+57 96% 82	+4.6 95% 73	-1.7 95% 85	+1.1 95% 27	-0.2 93% 79	+4.1 95% 15	+0.39 89% 67	+15 96% 74	+1.02 95% 82	+1.00 95% 59	+1.04 92% 55	\$221 35	\$373 36			
GTNP9 HKFJ5 GTNK26	CHILTERN PARK PICASSO P9 ^{PV} HBR	+37 53% 67	+8.4 83% 7	+8.9 70% 4	-3.4 99% 68	+1.1 98% 6	+54 97% 39	+100 97% 32	+128 96% 34	+91 92% 69	+24 87% 10	+3.3 95% 15	-8.1 63% 3	+89 89% 8	+6.4 87% 51	-0.1 87% 53	+1.1 88% 27	-0.6 81% 92	+4.1 89% 15	+0.68 78% 89	+27 95% 27	+0.64 93% 14	+0.76 93% 10	+0.84 88% 8	\$264 5	\$435 4			
QMUM13 USA16295688 QMUG1	CLUNES CROSSING DUSTY M13 HBR	+35 50% 70	+1.6 85% 62	+5.7 81% 27	-6.7 99% 19	+5.3 99% 79	+63 98% 9	+100 98% 31	+117 98% 58	+62 98% 95	+17 98% 53	+1.0 98% 87	-7.5 78% 6	+70 96% 46	+12.9 95% 4	-2.5 95% 93	-3.4 95% 92	+1.0 93% 16	+2.1 95% 57	+0.28 88% 56	+9 98% 90	+0.86 98% 54	+0.84 98% 22	+1.00 96% 43	\$294 1	\$426 6			
NBHK330 NJWG279 NBHH381	CLUNIE RANGE KALUHA K330 ^{PV} HBR	+3 71% 99	-2.5 72% 86	-13.2 68% 99	-4.9 97% 44	+5.6 97% 84	+55 96% 36	+96 96% 43	+126 96% 37	+100 93% 54	+16 90% 60	+1.6 96% 70	-7.3 67% 8	+93 96% 5	+9.8 91% 16	+0.2 91% 46	-1.2 92% 67	+1.2 90% 10	+3.2 93% 31	+0.34 86% 62	+5 94% 96	+0.70 88% 22	+0.92 88% 39	+1.12 85% 78	\$246 13	\$377 34			
NBHL348 NZE14647008839 AHWJ81	CLUNIE RANGE LEGEND L348 ^{PV} HBR	+18 68% 94	-6.0 95% 95	+4.5 87% 40	-7.8 99% 10	+5.8 99% 86	+57 98% 28	+102 98% 25	+124 98% 43	+153 98% 3	+2 97% 99	+2.8 98% 27	-6.8 80% 12	+61 95% 73	+0.1 94% 98	+3.8 95% 3	+0.9 95% 30	-0.8 93% 95	+2.5 94% 47	+0.15 87% 41	+24 97% 38	+0.50 97% 3	+0.80 97% 15	+1.22 96% 94	\$165 88	\$342 63			
WDCH249 USA14885809 WDCE9	COONAMBLE HECTOR H249 ^{SV} HBR	+33 70% 74	+1.5 96% 62	+1.0 88% 75	-8.3 99% 7	+4.6 99% 66	+45 98% 80	+80 98% 86	+99 98% 89	+93 98% 65	+5 98% 99	+1.3 98% 80	-4.6 79% 55	+45 96% 96	+9.2 95% 21	+4.2 96% 2	+4.5 96% 3	+0.6 94% 35	+0.2 95% 94	-0.45 89% 4	+40 98% 4	+0.40 96% 1	+0.48 96% 1	+0.80 94% 5	\$183 77	\$316 79			
WDCK314 NAQA241 WDCE94	COONAMBLE KEVIN K314 ^{PV} HBR	+99 65% 1	+0.6 87% 69	+4.5 76% 40	-1.9 96% 86	+4.6 98% 66	+51 97% 55	+101 96% 28	+134 96% 22	+111 93% 36	+25 95% 6	+4.6 94% 3	-7.2 68% 9	+84 92% 13	+7.2 90% 41	+0.0 90% 50	+0.6 91% 35	+0.2 86% 59	+1.5 91% 72	+0.61 83% 85	+41 86% 3	+0.50 85% 3	+1.12 86% 83	+1.20 82% 92	\$214 43	\$379 32			
USA16198796 USA14686137 USA15452880	EF COMPLEMENT 8088 ^{PV} HBR	+15 85% 96	+4.5 99% 35	+6.9 95% 16	-4.6 99% 49	+2.9 99% 27	+53 99% 46	+98 99% 36	+130 99% 31	+100 99% 54	+21 99% 23	+1.5 99% 74	-7.3 92% 8	+76 98% 30	+7.6 98% 36	+1.2 98% 24	+0.7 98% 33	+0.8 97% 24	+1.6 97% 69	+0.57 94% 82	+20 99% 53	+0.92 99% 66	+1.24 99% 95	+1.16 98% 86	\$253 9	\$418 9			
WWEL3 HIOG18 WWEJ8	ESSLEMONT LOTTO L3 ^{PV} HBR	+8 77% 99	-5.6 87% 94	-1.2 86% 87	-5.4 99% 36	+4.6 99% 66	+60 99% 15	+110 99% 11	+140 99% 14	+134 98% 11	+15 98% 67	+3.6 98% 11	-9.9 83% 7	+89 97% 1	+14.8 96% 2	-0.4 96% 60	+0.7 97% 33	+1.5 95% 5	+3.8 96% 20	+0.38 92% 66	+14 98% 77	+1.14 98% 94	+1.00 98% 59	+1.14 97% 82	\$297 1	\$478 1			
WWEQ24 WWEN12 WWEN7	ESSLEMONT QUOKKA Q24 ^{PV} HBR	+53 52% 39	+5.7 76% 24	+1.6 64% 70	-4.8 95% 46	+1.6 96% 10	+42 94% 89	+83 94% 80	+94 93% 93	+48 88% 99	+19 80% 39	+3.8 90% 8	-7.3 58% 8	+63 90% 66	+16.8 89% 1	+1.4 88% 21	+0.2 89% 42	+2.2 80% 1	+2.2 91% 54	+1.13 84% 99	+29 87% 22	+0.76 81% 33	+0.84 81% 22	+0.94 78% 25	\$275 2	\$402 16			
Breed Average EBVs		+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353			

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Ident	Name																											
Sire			Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index			
Dam	Reg.	ImmuneDEX IMD	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		
WWE21S6	ESSLEMONT SEAN S6 ^{PV}	+27	+5.6	+7.4	-5.9	+2.8	+57	+101	+115	+90	+15	+4.4	-6.1	+77	+17.0	+2.4	+0.5	+1.2	+4.0	+1.08	+26	+1.06	+1.18	+1.10	\$292	\$458		
NGMN418	HBR	54%	69%	63%	94%	91%	91%	90%	88%	85%	79%	82%	53%	81%	77%	78%	79%	71%	80%	71%	89%	66%	66%	64%				
WWEN7		83	25	12	29	26	27	28	62	70	67	4	22	27	1	9	37	10	16	99	30	87	90	73	1	2		
USA16295688	G A R PROPHET ^{SV}	+43	+3.7	+6.4	-0.7	+3.7	+67	+108	+133	+87	+23	+0.7	-5.1	+71	+4.1	-0.6	-1.6	-0.8	+4.8	+0.79	+26	+1.02	+0.80	+0.92	\$267	\$415		
USA13009379	HBR	88%	98%	94%	99%	99%	99%	99%	99%	99%	99%	99%	90%	98%	97%	98%	98%	97%	97%	94%	99%	99%	99%	98%				
USA15129456		57	43	20	94	45	4	15	24	75	13	92	42	42	78	64	73	95	7	93	29	82	15	20	4	10		
USA17328461	G A R SURE FIRE ^{SV}	+96	+6.4	+2.7	-3.0	+2.3	+50	+90	+112	+85	+20	+4.1	-7.7	+64	+8.0	-0.2	-0.5	+0.9	+3.4	-0.12	+26	+1.18	+0.92	+0.62	\$254	\$408		
USA16205036	HBR	79%	96%	87%	99%	99%	98%	98%	98%	97%	98%	98%	81%	97%	96%	96%	96%	95%	96%	90%	96%	99%	99%	93%				
USA16431932		1	18	59	74	18	61	62	69	77	27	5	5	66	32	55	54	20	27	16	31	96	39	1	8	13		
QBGH221	GLENOCH HINMAN H221 ^{SV}	+69	+6.4	-2.8	-3.0	+3.0	+53	+94	+126	+116	+20	+0.9	-3.3	+86	+7.3	-2.0	-4.9	+0.8	+5.2	-0.32	+11	+0.84	+0.78	+1.04	\$209	\$357		
BNAD145	HBR	70%	85%	76%	97%	97%	96%	96%	96%	92%	94%	95%	70%	92%	91%	91%	92%	88%	92%	85%	86%	89%	89%	85%				
QBGD80		16	18	93	74	29	42	48	38	29	31	89	82	11	40	89	98	24	5	7	86	50	12	55	50	50		
DKKM41	HARDHAT H708 MAIMURU J51	+86	-1.3	+2.6	-1.6	+2.3	+43	+92	+118	+97	+11	+1.3	-3.1	+63	+1.5	+0.8	-1.9	-0.6	+6.3	+0.04	+24	+1.08	+1.04	+1.12	\$181	\$313		
NORH708	APR	50%	71%	63%	95%	94%	92%	91%	91%	87%	82%	86%	65%	89%	89%	88%	89%	81%	91%	84%	88%	89%	90%	86%				
DKKJ51		2	81	60	89	18	86	56	57	59	89	80	85	68	94	32	77	92	1	30	39	89	68	78	78	81		
NHZQ319	HAZELDEAN Q319 ^{PV}	+70	+3.8	+9.4	-8.7	+2.5	+54	+105	+142	+141	+17	+3.2	-10.1	+80	+2.4	+2.8	+1.0	-1.0	+4.9	+0.58	+31	+0.78	+1.02	+1.12	\$249	\$457		
NHZM586	APR	51%	78%	63%	98%	98%	96%	96%	95%	89%	81%	95%	64%	91%	89%	89%	90%	81%	91%	82%	96%	89%	88%	84%				
NHZL1175		15	42	3	5	20	39	19	12	7	55	17	1	20	90	7	29	97	7	83	15	37	64	78	11	2		
VMIC31	INNESDALE CARBINE C31 ^{SV}	+33	+0.9	-4.9	-1.5	+5.4	+36	+63	+82	+87	+19	+0.5	-5.2	+36	+3.2	+0.0	-0.7	+1.0	+0.7	+0.34	+7	+0.66	+0.96	+1.06	\$126	\$235		
USA14739204	HBR	61%	86%	78%	95%	97%	96%	96%	95%	94%	94%	93%	68%	92%	91%	91%	92%	86%	92%	84%	91%	82%	82%	77%				
VMIU102		74	67	97	90	81	97	99	98	74	38	94	40	99	85	50	58	16	88	62	94	16	49	62	98	98		
KILK18	KILLAIN ALASKA K18 ^{PV}	+26	-10.0	-4.4	-0.8	+7.0	+66	+122	+164	+174	+15	+3.8	-2.3	+84	+6.5	-3.0	-4.9	+1.0	-1.2	-0.65	+36	+1.10	+0.78	+1.00	\$126	\$289		
USA16417285	HBR	53%	75%	64%	90%	89%	89%	88%	89%	86%	83%	83%	52%	85%	85%	85%	86%	82%	88%	77%	80%	77%	77%	66%				
USA15107929		84	99	96	94	96	5	3	2	1	66	8	94	14	49	96	98	16	99	1	8	91	12	43	98	90		
BLAP130	KNOWLA PACKER P130 ^{PV}	+16	+2.0	+1.3	-2.8	+4.8	+57	+102	+135	+115	+12	+1.2	-5.9	+78	+8.2	-0.2	-1.1	+0.8	+1.9	+0.16	+27	+0.80	+1.18	+0.94	\$235	\$395		
SRKK306	HBR	51%	68%	62%	93%	92%	90%	89%	90%	85%	79%	86%	55%	86%	84%	84%	85%	77%	87%	77%	84%	81%	81%	77%				
BLAK113		95	58	72	77	70	28	25	22	30	87	82	25	24	30	55	65	24	62	42	27	41	90	25	21	20		
VLYL483	LAWSONS LINKEDIN L483 ^{SV}	+55	+3.6	-6.9	-1.1	+4.2	+58	+109	+153	+140	+25	+4.0	-5.1	+103	+9.2	-1.3	+2.1	+0.2	+2.0	-0.17	+20	+1.04	+0.80	+0.86	\$215	\$390		
HKFJ5	HBR	67%	88%	79%	98%	98%	97%	97%	97%	95%	95%	94%	68%	93%	89%	88%	91%	84%	91%	82%	89%	85%	85%	81%				
VLYH221		36	44	99	92	57	23	13	5	8	7	6	42	1	21	78	15	59	59	13	56	85	15	10	42	24		
VLYP316	LAWSONS PROPHET P316 ^{PV}	+16	+5.5	+5.6	-2.1	+3.5	+57	+88	+106	+67	+17	+0.3	-4.1	+66	+12.7	-3.3	-3.5	+1.4	+4.1	+0.35	+30	+0.68	+0.76	+0.80	\$269	\$395		
USA16295688	HBR	58%	79%	71%	93%	96%	94%	94%	92%	88%	83%	91%	63%	87%	86%	86%	87%	79%	88%	79%	93%	91%	91%	87%				
VLYM527		95	26	28	84	40	27	68	80	93	52	96	67	59	4	97	93	6	15	63	19	19	10	5	3	20		
NMMD78	MILLAH MURRAH EQUATOR D78	+53	-0.4	+6.2	-9.0	+5.0	+62	+111	+157	+181	+18	+2.1	-3.8	+90	+1.7	-2.0	-3.2	+0.9	+0.1	-1.04	+22	+0.82	+0.94	+1.06	\$157	\$353		
USA14237157	HBR	68%	96%	90%	99%	99%	98%	98%	98%	97%	98%	98%	81%	96%	95%	96%	96%	94%	95%	89%	98%	95%	95%	92%				
NMMY119		39	76	22	4	74	12	10	3	1	46	52	73	7	94	89	91	20	95	1	48	45	44	62	91	53		
NMMH250	MILLAH MURRAH HERCULES	+69	-1.2	+3.2	-2.8	+6.0	+42	+75	+104	+93	+12	+2.5	-4.3	+61	+3.0	-1.5	-0.6	+0.4	+2.4	+0.16	+20	+0.92	+1.12	+1.08	\$154	\$276		
NMME78	HBR	62%	86%	74%	98%	98%	97%	97%	97%	94%	94%	95%	65%	92%	91%	91%	91%	87%	92%	84%	91%	89%	89%	84%				
NMME120		16	80	54	77	89	89	93	82	66	85	37	62	73	87	82	56	47	49	42	55	66	83	68	92	93		
Breed Average EBVs		+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353		

Angus Australia - ImmuneDEX Research Breeding Values

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Ident	Name																										
Sire Dam	Reg.	ImmuneDEX IMD	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	
NMMK35 NZE469 NMMG41	MILLAH MURRAH KINGDOM K35 HBR	+37 73% 67	-12.5 96% 99	-6.4 90% 98	-2.0 99% 85	+8.7 99% 99	+55 98% 35	+100 98% 32	+138 98% 17	+149 98% 4	+11 98% 91	+0.9 98% 89	-5.6 81% 31	+65 96% 61	+7.8 95% 34	+0.2 96% 46	+0.1 96% 43	+1.0 94% 16	-1.0 95% 99	-0.75 89% 1	+28 98% 25	+0.84 96% 50	+1.28 96% 97	+1.20 94% 92	\$141 96	\$281 92	
NMMK42 NGMT30 NMMH4	MILLAH MURRAH KLOONEY K42 HBR	+4 75% 99	+3.5 86% 44	+1.0 84% 75	-6.0 99% 28	+5.7 99% 85	+47 99% 70	+86 99% 72	+107 98% 78	+90 98% 70	+22 98% 17	+2.2 98% 48	-4.9 84% 47	+64 97% 66	+6.8 96% 46	-1.1 96% 75	-3.1 96% 90	+1.1 94% 13	+2.0 96% 59	-0.01 90% 25	+17 99% 68	+0.84 97% 50	+0.90 97% 34	+1.04 95% 55	\$193 68	\$325 74	
NMML133 USA17091363 NMMH49	MILLAH MURRAH LOCH UP L133 HBR	+9 73% 99	+4.9 81% 31	+4.6 81% 38	-5.5 99% 35	+4.8 99% 70	+59 98% 19	+99 98% 33	+131 98% 28	+100 98% 54	+25 98% 6	+2.2 98% 48	-2.9 82% 88	+80 97% 21	+1.8 95% 93	-2.2 96% 91	-3.9 96% 95	-0.7 94% 94	+1.8 96% 64	-0.11 89% 17	+32 98% 14	+0.70 97% 22	+1.08 97% 76	+1.16 96% 86	\$172 84	\$313 81	
NJWH283 NJWF189 NJWE51	MILWILLAH ELSOM H283 ^{PV} HBR	+32 67% 75	+1.4 83% 63	-5.6 72% 98	-2.2 97% 83	+3.9 97% 50	+46 96% 75	+82 96% 81	+121 95% 48	+107 92% 43	+21 93% 21	+1.7 94% 67	-1.3 64% 98	+76 92% 29	+9.1 91% 22	-2.5 91% 93	-2.7 91% 87	+1.5 86% 5	+1.5 92% 72	+0.34 85% 62	+20 88% 55	+0.74 89% 29	+0.82 90% 18	+1.04 85% 55	\$150 94	\$269 94	
NJWE158 NZEE230 VTMX114	MILWILLAH LAD E158 ^{SV} HBR	+41 57% 60	-2.5 84% 86	-9.1 76% 99	-7.7 95% 10	+7.9 97% 99	+41 97% 91	+78 96% 89	+105 96% 81	+108 93% 41	+7 96% 98	+2.0 93% 56	-5.1 64% 42	+42 92% 97	+9.0 91% 23	-0.9 91% 71	-4.9 91% 98	+1.4 86% 6	+3.3 92% 29	+0.26 83% 53	+13 90% 82	+0.80 79% 41	+0.84 80% 22	+0.74 72% 2	\$159 91	\$281 92	
CSWP036 USA17236055 CSWL123	MURDEDUKE BLACK PEARL HBR	+19 53% 93	+1.9 79% 59	+3.2 70% 54	-8.5 96% 6	+4.7 96% 68	+49 95% 63	+93 95% 51	+131 94% 28	+118 91% 26	+21 85% 22	+3.2 90% 17	-7.7 68% 5	+61 91% 74	+1.1 90% 96	+0.5 90% 39	-1.1 91% 65	-1.0 82% 97	+6.3 92% 1	+0.66 86% 88	+15 95% 73	+0.84 93% 50	+1.16 94% 88	+1.22 90% 94	\$217 40	\$384 28	
CSWK428 VTME343 CSWE175	MURDEDUKE KICKING K428 ^{PV} HBR	+31 74% 77	+7.6 89% 11	+9.9 77% 2	-7.6 98% 11	+1.9 98% 13	+48 97% 70	+93 97% 53	+115 97% 63	+88 96% 76	+25 95% 8	+3.3 97% 15	-6.1 70% 22	+67 90% 57	+2.5 92% 90	-0.3 90% 57	-3.1 92% 90	+0.3 87% 53	+0.8 93% 86	-0.07 86% 20	+41 97% 3	+0.84 97% 50	+1.00 97% 59	+1.18 95% 89	\$188 72	\$342 63	
NURM208 SMPG357 NURK45	MURRAY GENESIS M208 ^{PV} HBR	+39 73% 64	+1.3 80% 64	+5.7 70% 27	-5.8 94% 30	+4.6 94% 66	+49 93% 61	+94 93% 49	+127 93% 35	+106 89% 45	+19 87% 39	+3.8 86% 8	-6.4 64% 17	+82 89% 16	+16.6 88% 1	-0.2 86% 55	-2.5 89% 85	+2.0 83% 1	+1.2 90% 79	+1.43 82% 99	+6 88% 95	+0.90 91% 62	+1.00 90% 59	+0.68 87% 1	\$235 21	\$393 21	
NURM204 USA16956101 NURJ43	MURRAY PROCEED M204 ^{PV} HBR	+46 77% 51	-5.7 82% 94	+7.6 71% 11	-4.2 96% 55	+4.5 96% 64	+62 95% 11	+107 95% 16	+145 94% 9	+137 90% 9	+19 85% 38	+2.3 90% 44	-3.5 64% 79	+89 91% 7	+13.5 90% 3	-5.0 88% 99	-5.8 91% 99	+0.7 86% 29	+6.9 92% 1	+0.06 85% 32	+23 93% 41	+0.94 91% 70	+0.74 91% 8	+0.90 88% 16	\$237 19	\$396 20	
SFNL21 NZE103222010609 SFNH65	NAMPARA LIBERTY L21 ^{SV} HBR	+58 70% 31	-4.9 88% 93	-5.3 74% 97	-6.5 98% 21	+8.6 98% 99	+68 97% 4	+111 97% 10	+148 97% 8	+165 95% 2	+19 95% 38	+2.9 96% 24	-1.0 64% 99	+79 94% 23	+7.6 92% 36	-2.1 90% 90	-0.9 93% 62	+1.8 88% 2	-2.4 93% 99	-0.65 86% 1	+24 95% 38	+0.92 92% 66	+0.88 92% 30	+0.98 88% 36	\$145 95	\$301 86	
SKOJ6 VTME343 NZCE115	NEWLYN PARK EMPEROR J6 ^{PV} HBR	+12 64% 98	-7.0 78% 96	-5.4 70% 97	-6.9 93% 17	+7.5 92% 98	+65 91% 7	+111 90% 10	+143 91% 11	+160 88% 2	+8 84% 97	+1.3 85% 80	-3.8 64% 73	+78 87% 24	+8.4 86% 28	-0.9 86% 71	-1.1 87% 65	+1.3 81% 8	+0.2 88% 94	-0.73 80% 1	+14 85% 80	+1.08 86% 89	+0.80 85% 15	+0.76 81% 3	\$182 78	\$343 62	
NZE21095018 HIOE7 NZE21095112H49	NGAPUTAH I P206 ^{PV} HBR	+81 55% 5	+10.1 81% 2	+5.3 73% 31	-1.5 93% 90	-0.1 97% 2	+41 96% 90	+83 95% 79	+96 95% 92	+67 91% 93	+28 86% 3	+2.7 94% 30	-8.2 68% 3	+54 90% 88	+6.1 89% 54	+0.0 89% 50	-2.1 89% 80	+1.1 82% 13	+4.1 91% 15	+0.17 83% 43	+18 89% 64	+0.94 84% 70	+1.10 84% 80	+1.10 80% 73	\$246 13	\$386 26	
USA16981588 USA16381311 USA16408070	PA FULL POWER 1208 ^{PV} HBR	+63 76% 24	-5.0 95% 93	-4.7 86% 97	-4.9 99% 44	+3.8 98% 47	+52 98% 48	+98 98% 37	+119 98% 55	+74 98% 88	+14 98% 75	+2.0 98% 56	-2.5 75% 92	+72 96% 42	+13.0 95% 4	-1.7 94% 85	+0.6 95% 35	+1.1 92% 13	+3.0 95% 35	+0.88 88% 96	+21 98% 49	+1.24 98% 98	+0.94 98% 44	+0.72 91% 2	\$227 29	\$332 69	
Breed Average EBVs		+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353	

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Ident	Name																										
Sire	Dam	Reg.	ImmuneDEX	Calv-Ease		Birth		Growth			Maternal		Fert		Carcase						Feed	Temp	Structural			Selection Index	
			IMD	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	NORH708	RENNYLEA Q1081 ^{PV}	+82	-3.1	+4.8	-3.8	+3.9	+50	+92	+119	+108	+13	+3.6	-5.7	+49	+8.9	+0.6	-0.6	+0.3	+6.8	+0.78	+14	+0.86	+0.88	+0.88	\$238	\$388
NORL841	APR		57%	77%	67%	93%	93%	92%	91%	92%	88%	81%	89%	63%	88%	87%	87%	88%	80%	89%	81%	90%	88%	88%	84%		
			4	88	36	62	50	56	55	54	41	83	11	29	94	23	36	56	53	1	93	80	54	30	13	18	25
NORQ213	NORK907	RENNYLEA Q213 ^{PV}	+28	+9.0	+7.9	-7.5	+0.9	+63	+118	+148	+94	+25	+0.5	-10.1	+101	+8.3	+0.8	+0.2	+0.1	+3.3	+0.75	+28	+0.50	+0.70	+0.88	\$331	\$516
NORL110	APR		53%	85%	70%	98%	98%	97%	97%	97%	94%	90%	96%	61%	91%	89%	89%	89%	83%	90%	81%	97%	95%	95%	92%		
			81	5	9	12	5	9	4	7	65	8	94	1	2	29	32	42	65	29	92	25	3	5	13	1	1
NORR992	NORN542	RENNYLEA R992 ^{PV}	+32	+5.2	+8.0	+1.8	+1.2	+44	+84	+114	+83	+26	+1.7	-6.3	+67	+11.5	+1.9	+2.4	-0.3	+6.4	+1.13	+25	+0.58	+0.80	+0.80	\$256	\$407
NORM1034	APR		50%	69%	61%	95%	95%	94%	94%	92%	90%	84%	91%	53%	81%	81%	81%	81%	75%	82%	68%	92%	84%	84%	78%		
			75	29	8	99	7	83	78	65	79	4	67	19	55	8	14	12	83	1	99	35	8	15	5	8	13
APBK11	VTMB1	SHACORRAHDALU KINETIC K11	+20	+9.9	+10.5	-9.0	+0.3	+49	+88	+105	+97	+10	+4.6	-6.8	+64	+10.4	+3.8	+2.5	+0.6	+2.5	+0.89	+2	+0.96	+1.20	+1.06	\$239	\$411
APBF2	HBR		51%	78%	71%	93%	92%	91%	91%	91%	89%	85%	86%	65%	86%	84%	84%	85%	77%	86%	78%	86%	84%	83%	80%		
			92	2	1	4	3	62	66	82	60	94	3	12	65	13	3	12	35	47	96	98	73	92	62	18	12
NZE19507013	VTME343	STORTH OAKS JACK J7 ^{SV}	+14	+6.1	+8.2	-4.8	+4.4	+61	+113	+151	+143	+17	+3.5	-1.9	+80	+8.3	-0.1	-3.1	-0.3	+2.5	+0.11	+20	+1.00	+0.98	+0.92	\$185	\$370
NZE19507111G183	HBR		69%	89%	80%	98%	98%	97%	97%	97%	95%	95%	96%	71%	94%	93%	93%	93%	90%	93%	87%	96%	93%	93%	89%		
			97	21	7	46	61	14	8	6	6	52	12	96	20	29	53	90	83	47	37	54	80	54	20	75	39
VSNG34	VTMB1	STRATHEWEN BERKLEY G34 ^{PV}	+40	+7.6	+7.9	-6.5	+3.6	+57	+108	+142	+148	+19	+2.3	-7.1	+83	+6.3	+0.9	+0.1	+0.2	+2.1	-0.09	+30	+1.10	+1.24	+1.10	\$227	\$432
VSNE22	HBR		70%	84%	76%	95%	94%	93%	93%	93%	91%	90%	88%	68%	91%	90%	89%	90%	86%	91%	85%	89%	88%	88%	85%		
			62	11	9	21	42	25	14	12	5	39	44	9	15	52	30	43	59	57	19	20	91	95	73	29	5
USA17236055	USA15354674	SYDGEN BLACK PEARL 2006 ^{PV}	+8	+2.3	+7.5	-7.1	+3.2	+51	+85	+123	+86	+21	+1.5	-3.7	+74	+8.3	+0.3	-0.6	+0.5	+2.9	+0.30	+16	+1.04	+1.20	+1.14	\$215	\$346
USA16214508	HBR		76%	98%	93%	99%	99%	99%	99%	99%	98%	99%	99%	89%	98%	97%	97%	97%	96%	97%	92%	99%	99%	99%	98%		
			99	56	11	15	33	51	75	45	75	22	74	75	36	29	43	56	41	37	58	71	85	92	82	42	59
VTMK52	USA16295688	TE MANIA KALIBROOK K52 ^{PV}	+45	+7.7	+5.4	-3.3	+1.3	+51	+102	+128	+104	+30	+1.7	-6.1	+71	+4.2	+0.8	+1.9	-0.7	+5.6	+1.41	+8	+1.22	+1.12	+1.18	\$245	\$414
VTMH423	HBR		71%	79%	70%	94%	95%	92%	92%	91%	88%	84%	88%	66%	88%	86%	85%	87%	83%	89%	80%	87%	90%	90%	87%		
			53	10	30	70	7	54	26	34	48	1	67	22	44	77	32	17	94	3	99	93	98	83	89	13	10
VTMK138	USA16295688	TE MANIA KIRBY K138 ^{PV}	+18	+0.5	+7.9	-1.4	+4.7	+52	+89	+118	+99	+20	+2.6	-8.0	+64	+6.3	+1.8	+3.1	-1.9	+8.6	+0.89	+15	+0.78	+0.76	+0.94	\$255	\$415
VTMH17	HBR		68%	88%	81%	99%	99%	98%	98%	98%	98%	98%	98%	84%	97%	97%	96%	97%	95%	96%	90%	99%	99%	99%	99%		
			94	70	9	90	68	48	64	57	55	29	33	4	65	52	16	8	99	1	96	75	37	10	25	8	10
VTMN424	VTMJ89	TE MANIA NEBO N424 ^{PV}	+51	+9.2	-0.9	-6.7	+4.0	+53	+101	+134	+102	+29	+4.3	-4.9	+53	+6.8	-0.6	-4.0	+0.2	+3.9	-0.06	+48	+0.92	+0.84	+0.92	\$212	\$362
VTMJ214	HBR		51%	91%	84%	99%	98%	98%	98%	98%	97%	97%	97%	73%	97%	96%	95%	96%	90%	94%	85%	98%	98%	98%	98%		
			43	4	86	19	52	43	28	24	50	2	4	47	89	46	64	95	59	18	21	1	66	22	20	47	46
VTMN1387	VTMK138	TE MANIA NEON N1387 ^{SV}	+19	+0.9	+2.3	-6.4	+3.6	+47	+84	+105	+95	+18	+1.3	-6.3	+38	+3.0	+0.1	-1.0	-2.2	+10.	-0.36	+25	+0.74	+0.80	+0.92	\$212	\$354
VTML452	HBR		50%	82%	74%	98%	98%	98%	98%	97%	96%	92%	96%	66%	94%	93%	92%	94%	85%	93%	87%	98%	97%	97%	96%		
			93	67	63	22	42	71	76	81	63	42	80	19	99	87	48	63	99	1	6	36	29	15	20	46	53
VTMP888	VTMK226	TE MANIA PESO P888 ^{PV}	+53	+7.6	+5.9	-5.3	+2.0	+56	+113	+144	+116	+25	+2.4	-7.0	+88	+5.9	-0.2	+1.0	+0.4	+1.8	-0.15	+24	+0.84	+1.08	+0.98	\$255	\$439
VTMH423	HBR		56%	81%	73%	98%	98%	97%	97%	97%	96%	94%	94%	70%	94%	94%	93%	94%	87%	93%	84%	96%	95%	95%	93%		
			39	11	25	38	14	29	7	10	29	6	40	10	8	57	55	29	47	64	15	38	50	76	36	8	4
DBLL292	USA16295688	TOPBOS LEADING EDGE L292 ^{PV}	+26	+2.6	+8.6	-5.9	+6.5	+73	+125	+164	+152	+23	+1.4	-4.2	+84	+4.5	-2.2	-5.1	+0.1	+1.6	+0.03	+20	+0.94	+0.80	+0.82	\$225	\$416
VSNF04	HBR		74%	89%	75%	98%	98%	97%	97%	97%	95%	96%	97%	70%	93%	92%	91%	92%	88%	93%	86%	97%	92%	92%	88%		
			84	53	6	29	93	1	2	2	4	12	77	64	14	74	91	98	65	69	29	56	70	15	6	31	10
Breed Average EBVs			+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353

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Ident		Name																											
Sire Dam	Reg.	ImmuneDEX IMD	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			
QKBP29	WARRAWEE PATROL P29 ^{PV}	+58	+7.2	+10.9	-11.9	+3.0	+56	+105	+140	+131	+18	+2.3	-10.1	+100	+9.2	+3.6	+2.0	+0.1	+2.1	+0.67	+30	+0.80	+1.16	+1.00	\$270	\$479			
SMPG357	HBR	64%	79%	71%	96%	94%	93%	92%	91%	88%	82%	88%	65%	86%	85%	85%	86%	79%	87%	78%	88%	78%	78%	74%					
QKBM01		31	13	1	1	29	32	19	14	13	47	44	1	2	21	3	16	65	57	88	19	41	88	43	3	1			
NWPG188	WATTLETOP FRANKLIN G188 ^{SV}	+49	+4.5	+6.7	-4.4	+2.3	+64	+109	+140	+116	+25	+3.7	-3.7	+84	+1.6	-1.3	-2.6	-0.1	+0.4	-1.12	+33	+1.10	+0.98	+0.98	\$192	\$355			
USA15462648	HBR	65%	96%	88%	99%	99%	98%	98%	98%	98%	98%	98%	78%	96%	95%	95%	95%	93%	94%	89%	97%	96%	96%	94%					
NWPE295		46	35	17	52	18	8	13	14	29	8	9	75	13	94	78	86	75	92	1	12	91	54	36	69	52			
NWPE111	WATTLETOP SITZ 458N E111 ^{SV}	+17	+4.7	+7.0	-3.8	+2.7	+51	+91	+125	+97	+25	+2.0	-1.4	+83	+5.6	-4.2	-3.4	+0.9	+2.8	-0.53	+26	+0.98	+0.92	+1.10	\$188	\$324			
USA14474596	HBR	67%	90%	80%	97%	98%	97%	97%	97%	95%	96%	95%	74%	93%	92%	92%	93%	89%	93%	85%	95%	87%	88%	83%					
NWPC36		94	33	15	62	24	55	58	41	60	7	56	98	15	61	99	92	20	40	2	31	77	39	73	72	75			
CWDJ17	WEATHERLY JAMES J17 ^{SV}	+36	-2.6	-4.9	-3.3	+6.0	+50	+84	+111	+118	+3	+1.3	-3.8	+67	+8.6	+1.0	+2.3	+1.0	+3.3	-0.03	+5	+0.84	+1.24	+1.04	\$197	\$334			
BNAD145	HBR	74%	80%	72%	93%	93%	92%	92%	93%	90%	87%	86%	67%	90%	89%	89%	90%	85%	91%	84%	88%	88%	87%	81%					
CWDF14		69	86	97	70	89	59	78	72	26	99	80	73	57	26	28	13	16	29	23	96	50	95	55	63	69			
CWDM5	WEATHERLY MOXY M5 ^{SV}	+44	+2.9	+6.9	-4.4	+4.0	+56	+100	+135	+113	+27	+2.7	-6.4	+93	+7.2	+2.9	+0.0	+0.3	+2.6	+0.27	+20	+0.94	+1.06	+1.00	\$237	\$404			
SMPG357	HBR	52%	80%	70%	93%	96%	94%	94%	95%	93%	90%	89%	62%	86%	84%	85%	85%	80%	85%	73%	92%	92%	92%	84%					
CWDJ15		55	50	16	52	52	31	30	21	34	3	30	17	5	41	6	45	53	44	54	53	70	72	43	20	15			
Breed Average EBVs		+48	+2.3	+3.1	-4.6	+3.9	+52	+93	+121	+103	+17	+2.2	-4.8	+69	+6.6	+0.1	-0.2	+0.4	+2.5	+0.24	+21	+0.84	+0.96	+1.02	+206	+353			

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