

Boerboel Genetic Evaluation

SA Stud Book

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Kennel Number: 681201



Estimated Breeding Values (EBVs)

Litter size and conformation traits are influenced by many genes, with every gene making a small contribution to the expression of the trait. These traits are, however, also influenced by physiological and physical environmental factors, for example the age and sex of the animal, the feeding and management the animal received and year x season effects. It is therefore not possible to know what the animal's genetic potential for the trait is by merely using the measurement.

With BLUP (*Best Linear Unbiased Prediction*) methodology an animal's genetic potential is predicted by making use of the genetic parameters (heritabilities and genetic correlations) of the breed, pedigree information, as well as the measurements of the animal as deviation from the average of the animals that were measured with the animal. Adjustments are made for differences in sex, age, classifier, management and year x season effects to ensure that fair comparisons are made amongst the animals. These predictions are called **EBVs (Estimated Breeding Values)** which indicates the animal's genetic potential for the specific trait and predicts the type of progeny that the animal will breed.

Pedigree information determines the genetic level at which the animal enters the genetic evaluation, it links the information of all relatives together and it is used to determine the genetic ranking of the breed. For young animals that were not yet measured, mid-parent EBVs are estimated, which are the average of the EBVs of the sire and dam. These breeding values are still inaccurate and can change a lot when more information (measurements) is included in subsequent genetic evaluations.

Breeding values therefore enables a breeder to compare his/her animals genetically to one another, as well as to all other animals of the breed. This Report gives a summary of the genetic levels of the active males and females of the relevant breeder in comparison to that of the breed for linearly classified traits and litter size. The genetic change that occurred over time can also easily be seen.

Breeding Value Indices (EBVi)

For easy interpretation, EBVs are standardised and expressed relative to the average (100) of the active animals of the breed, using 12 as standard deviation (SD). This means that an EBV of 100 is equal to the active average of the breed, and more or less 50% of the animals will have EBVi's of between 90 and 110, which indicates an average animal. Only 0.5% of the EBVi's will be lower than 64 and 0.5% will be higher than 136. Higher EBVi's indicate better genetic potential for the trait.

Accuracy

EBVs are published with an **accuracy value (%)**, which indicates how much info was available for the estimation of the EBV and with how much trust it can therefore be applied. Factors that influence the accuracy include heritability, completeness and correctness of pedigree information, number of own and measured relatives and the size of the group in which the animal was measured. When an accuracy of 85% and more is reached, the EBV should not change significantly with the inclusion of more information in subsequent genetic evaluations.

Kennel and Breed Averages: The different traits' averages of the breeder's active animals are compared to those of the breed in the Kennel and Breed Average Graphs and Tables. The breeder can therefore easily see for which traits the animals are above or below the average of the breed.

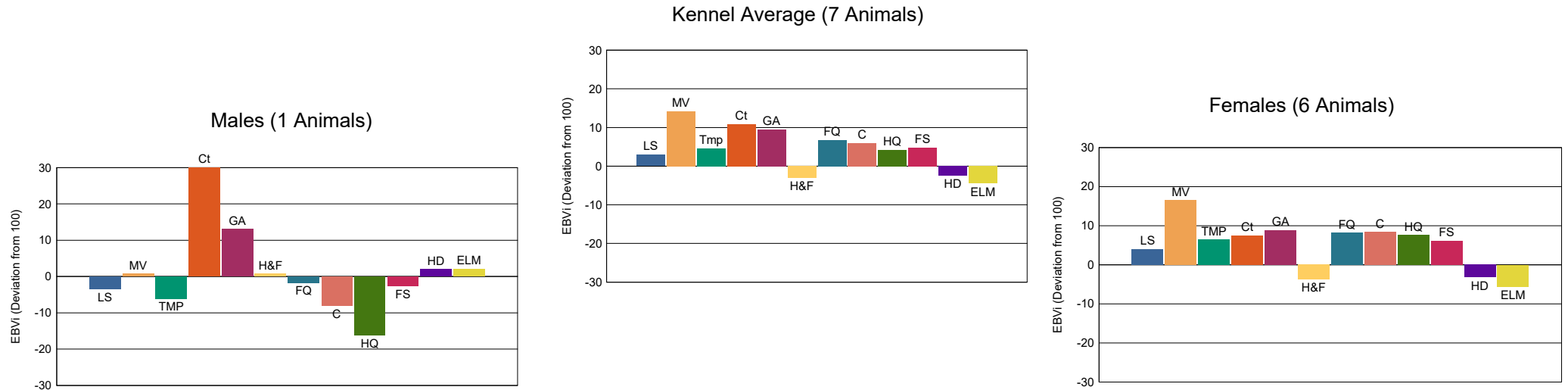
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

Inbreeding: Inbreeding is the mating of related animals and is widely viewed as being harmful. The danger of inbreeding lies there in that it can gradually decrease fertility and survivability – a phenomenon known as inbreeding depression. It can cause lower conception rates, more abortions, more stillborn and weak offspring and a higher susceptibility to diseases. Indications in dogs include a low litter size as well as problems relative to fertility, such as invisible heat, behavioural problems when mating and low sperm quality. Overall, reduced litter size most likely reflects inbreeding depression in several traits, both physiological and behavioural, as well as a high frequency of non-viable embryos due to lethal alleles. Generally, the effects of inbreeding can become noticeable at a value of 6.25%, therefore it is generally recommended that individuals should have inbreeding coefficients of less than 6.25%. Breeders should therefore avoid matings causing inbreeding of more than 6.25% in the progeny. The theoretical maximum inbreeding coefficient is 50%. However, it should be noted that not all inbred animals show signs of inbreeding depression.

The data used in this evaluation was obtained from LOGIX from linear classifications that were done by the Breeder Society. All possible attempts have been made to present the information correctly. SA Stud Book does not accept responsibility for the use and interpretation of the information presented on animals in this publication.

Genetic Levels

Kennel Average relative to Breed Average, where Breed Average is indicated as 0



Average Breeding Value Indices (EBVi) where Breed Average = 100

Trait	All Animals	Males	Females
Litter size (LS)	103	97	104
Movement (Mv)	114	101	116
Temperament (Tmp)	105	94	106
Coat (Ct)	111	131	108
General Appearance	109	113	109
Head & Face (H&F)	97	101	96
Front Quarter (FQ)	107	98	108
Centre (C)	106	92	108
Hind Quarter (HQ)	104	84	108
Final Score (FS)	105	97	106
Hip Health (HH)	98	102	97
Elbow Health (ELM)	96	102	94

Inbreeding

Notes

Inbreeding primarily leads to decreased fertility, low survivability of pups and low disease resistance.

Inbreeding coefficients are calculated for all animals of the breed and indicates the probability that two genes of a pair are the same due to a common ancestor in the pedigree of the animal.

The adverse effects of inbreeding can be observed from 6.25% onwards.

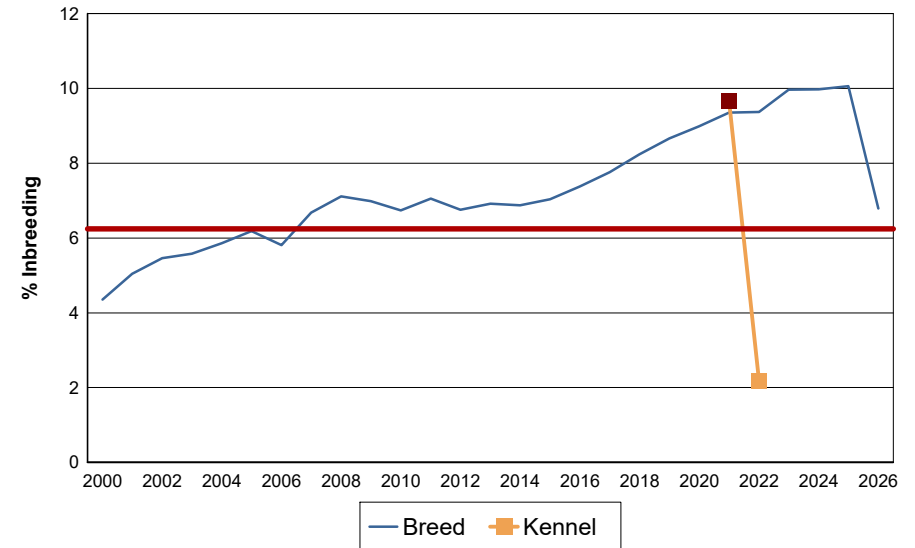
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients are therefore conservative indicators of the level of inbreeding.

Incomplete or incorrect pedigree information can be reported to SA Stud Book via the Breed Society.

Inbreeding Levels for Specific Matings

Progeny with Parents :	25%
Full Brother x Full Sister :	25%
Half Brother x Half Sister :	12.5%
One Common Grandparent :	6.25%
One Common Great-Grandparent :	3.125%

Rate of Inbreeding

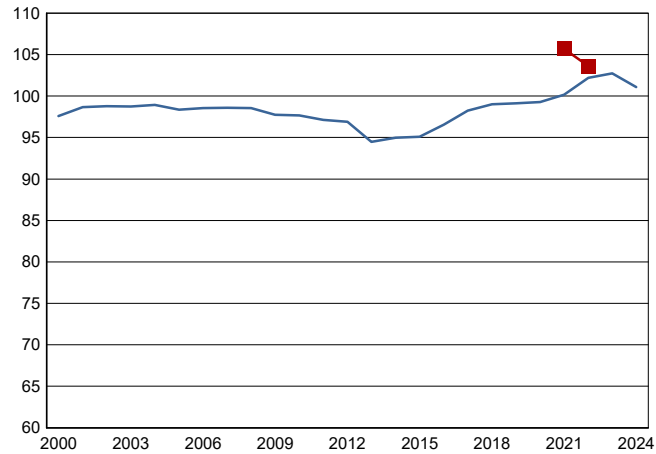


Inbreeding Levels

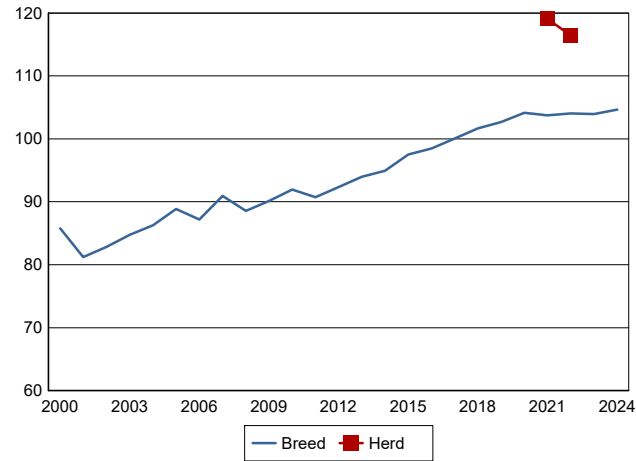
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	7	49007	1	25141	6	23857	5	3371	3	6287
Average Inbreeding	4.62	8.49	0.99	8.46	5.23	8.53	5.27	8.01	3.72	8.00
Number inbred	7	48727	1	24990	6	23728	5	24990	2	23728
Number >6.25% Inbr.	2	30600		15537	2	15058	3	15537		15058

Genetic Trends

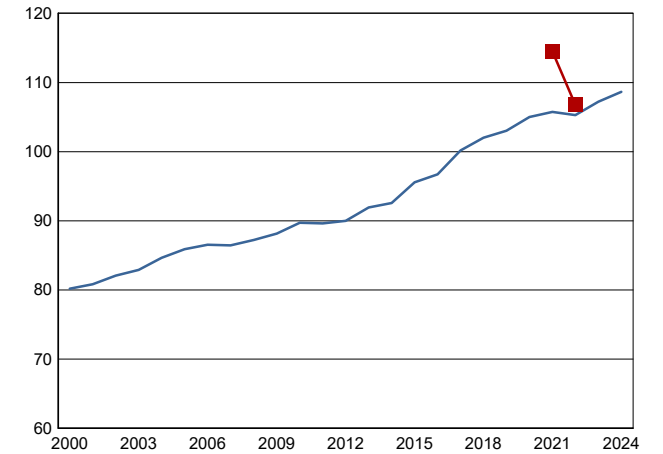
Litter Size



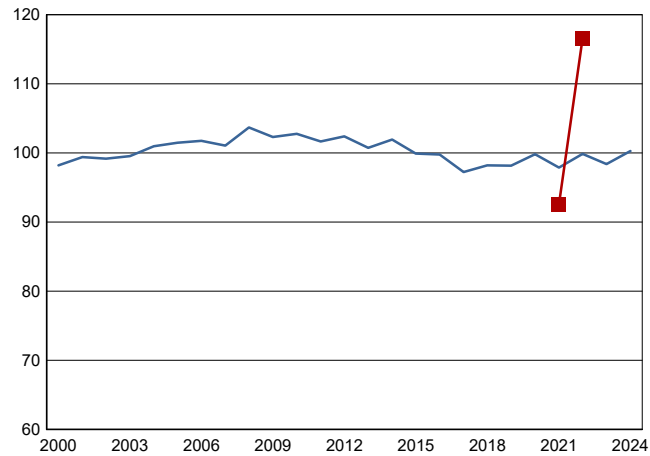
Movement



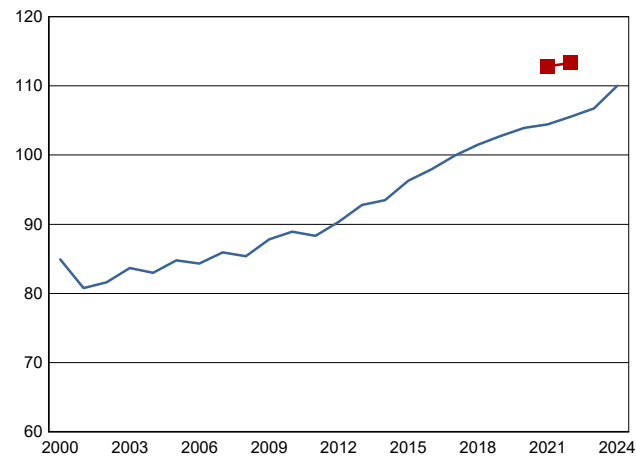
Temperament



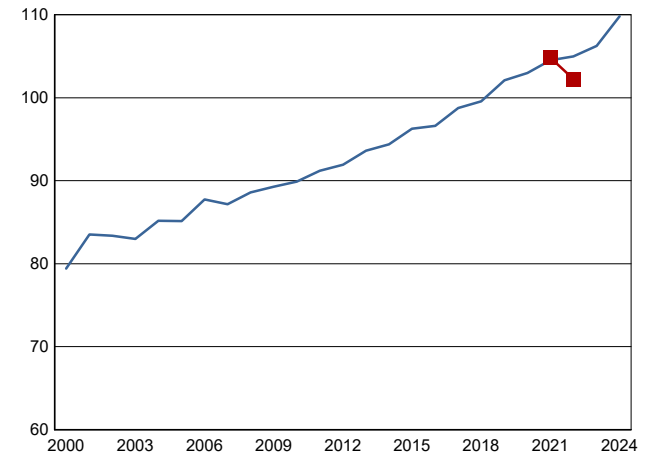
Coat



General Appearance

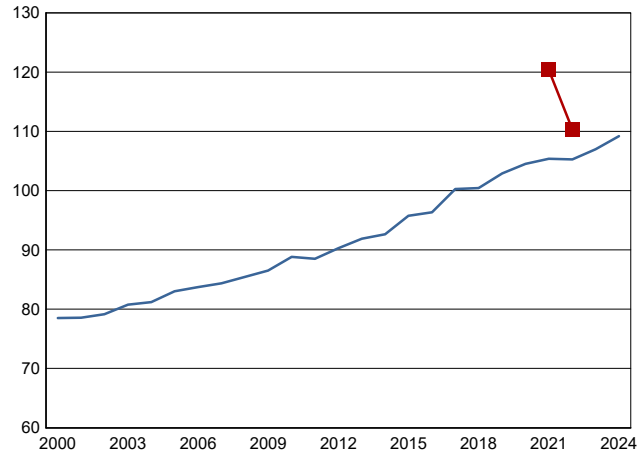


Head & Face

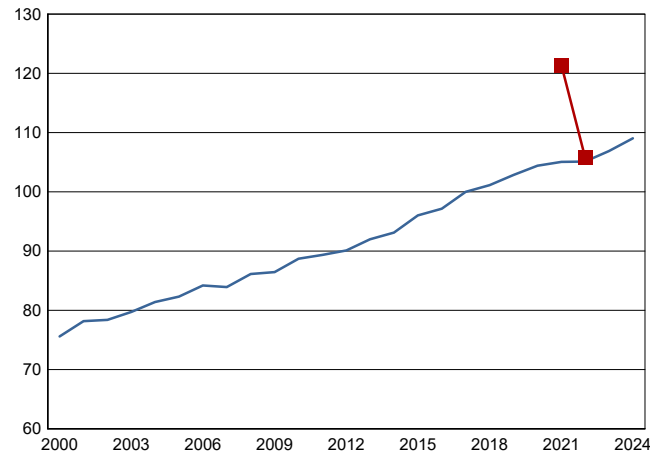


Genetic Trends

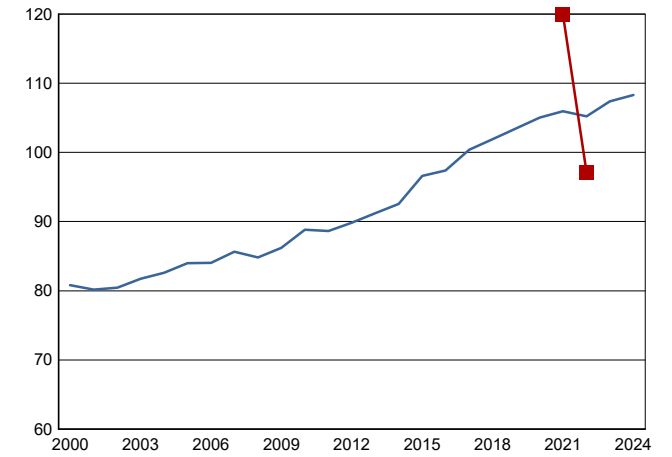
Front Quarter



Centre

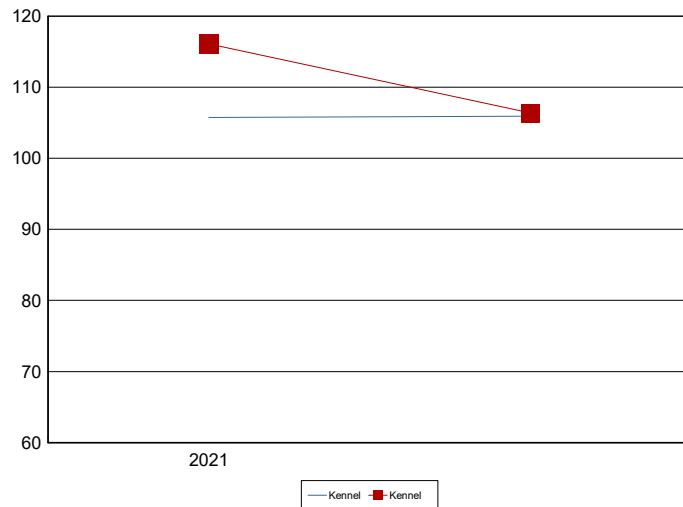


Hind Quarter

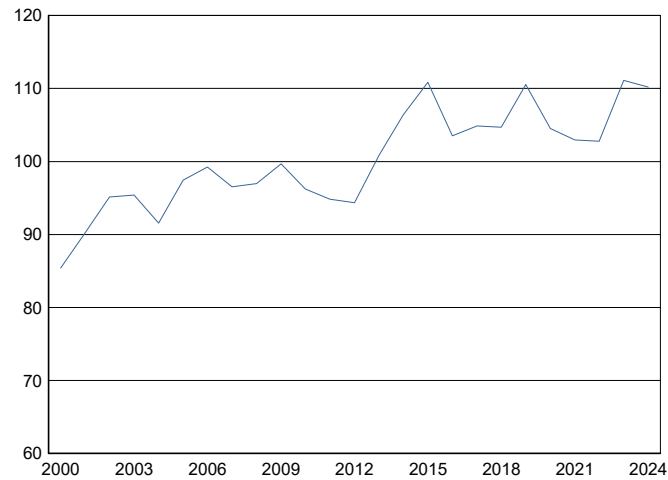


Final Score & Health Traits

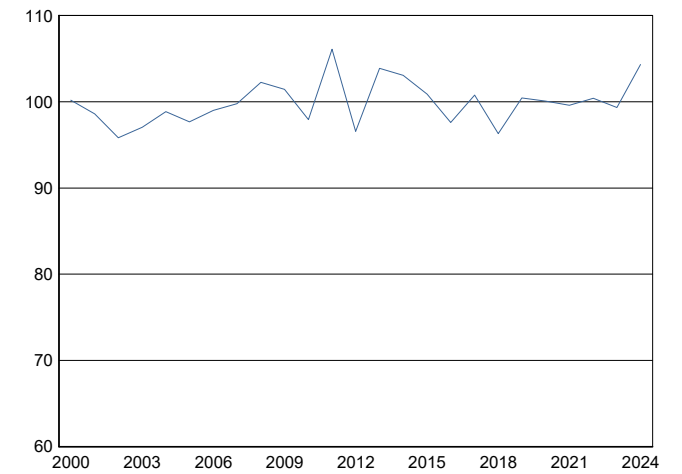
Final Score



Hip Health



Elbow Health



Estimated Breeding Value Indices (EBVi's)

Males

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move- ment	Tempe- rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
MAEBOERBOEL GALTERO HERMOSO		VOICE VELD ELOY	0.99	102	102		101	94	131	113	101	98	92	84	97	14	1	5			
	2018	MAEBOERBOEL DAMALI		5	28		46	24	63	45	62	47	49	52	57			2			

Estimated Breeding Value Indices (EBVi's)

Females

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
PREMIER'S REBEL	2019	D & K TO NONE ANGUS	5.51	90	95	111	119	106	111	102	95	109	110	110	107	21	1	5			
		LEGENDS BBD ARIEL		5	52	5	35	5	55	34	53	36	38	42	48			3			
ASKUWHETO MISCHIEF	2021	KLEIN SANDFONTEIN JURY	9.67	97	90	106	119	115	76	113	103	118	121	121	114						
		PREMIER'S REBEL		5	29	5	37	5	55	37	54	38	41	43	49						
ASKUWHETO STORM	2021	KLEIN SANDFONTEIN JURY	9.67	97	90	106	119	114	101	113	106	122	122	120	117						
		PREMIER'S REBEL		5	29	5	28	5	42	28	41	29	31	33	37						
MAEBOERBOEL CONCEALED CHIAPPA	2022	OUTLAW DRAX	2.20	105	95	95	109	89	124	98	69	79	85	101	86						
		MAEBOERBOEL DAMALI		5	14	5	43	18	61	43	60	44	47	49	55						
ASKUWHETO NYX	2022	MAEBOERBOEL GALTERO HERMOSO	2.17	96	99	104	116		116	115	103	110	106	97	107						
		PREMIER'S REBEL		5	26	5	34		53	33	51	35	37	40	46						
ASKUWHETO MALICE	2022	MAEBOERBOEL GALTERO HERMOSO	2.17	96	99	104	117		117	112	102	110	106	97	106						
		PREMIER'S REBEL		5	26	5	34		53	33	51	35	37	40	46						

Estimated Breeding Value Indices (EBVi's)

Sires

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Sire Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels	Hips	Elbows		
VOICE VELD ELOY		VOICE VELD ZUMZUM	0.83	106	107	93	93	99	99	115	103	114	119	93	104	26	3	10	3	4	7
	2015	OL DZHI		21	59	18	55	31	71	54	70	56	58	61	66						
D & K TO NONE ANGUS		GATEWAY BBD DEBO	7.81	85	80	116	114	112	104	107	115	118	110	108	115	1	1	1	1	1	1
	2017	KLEIN SANDFONTEIN KISSKA		5	25	25	37	11	49	36	48	38	39	41	45						
KLEIN SANDFONTEIN JURY		KLEIN SANDFONTEIN HUEY	7.01	105	85	101	119	122	90	123	116	134	133	129	127	31	3	4			
	2017	KLEIN SANDFONTEIN ASARA		40	54	43	58	41	69	58	69	59	60	62	65						
MAEBOERBOEL GALTERO HERMOSO		VOICE VELD ELOY	0.99	102	102		101	94	131	113	101	98	92	84	97	14	1	5			
	2018	MAEBOERBOEL DAMALI		5	28		46	24	63	45	62	47	49	52	57						
OUTLAW DRAX		BLACK IRON TUCKER	9.71	112	92	90	125	122	114	130	135	132	144	145	145	21	5	11	2	3	3
	2019	BARBARIAN ATHENA		9	37	8	55	25	72	54	71	56	58	61	66						

Estimated Breeding Value Indices (EBVi's)

Dams

Inbreeding >6.25% is high

< 80

>= 100

>= 120

Animal Information			Inbreed	Health		Fertility	General			Appearance						Progeny :		Appraisal	Health		Progeny with litters
Name	BYr	Sire Dam	%	Hips Acc.	Elbows Acc.	Litter Size Acc.	Move-ment	Tempe-r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
MAEBOERBOEL DAMALI	2016	0	0.00	98	97	100	91	74	137	94	61	64	63	74	67	6		4	1		3
		SHOMBAY OGIO		5	5	5	40	18	57	39	56	41	43	45	51			2			1
LEGENDS BBD ARIEL	2017	MOUNT ROYAL BBD CUDA	5.65	94	108	105	104	87	108	87	82	92	101	101	92	1		1	1		1
		LEGENDS BBD ZEE		5	19	5	28	5	44	27	43	29	31	34	39			1			1
PREMIER'S REBEL	2019	D & K TO NONE ANGUS	5.51	90	95	111	119	106	111	102	95	109	110	110	107	21	1	5			
		LEGENDS BBD ARIEL		5	52	5	35	5	55	34	53	36	38	42	48			3			

