

Boerboel Genetic Evaluation

SA Stud Book
February 2026

0 0 UNIQUE BOERBOEL

3827 BRANCH WAY
INDIANAPOLIS
INDIANA
USA



Kennel Number: 714600



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.

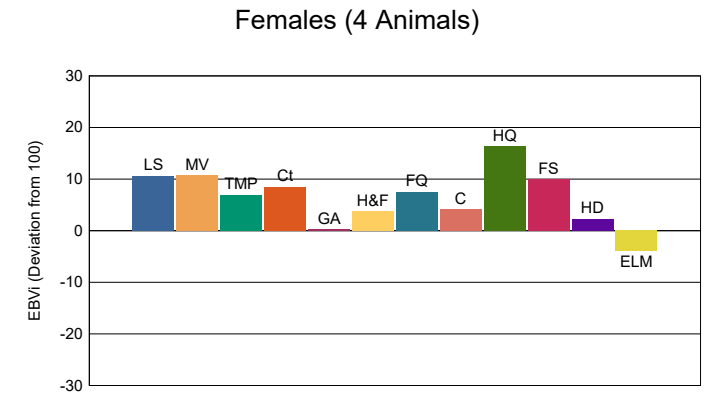
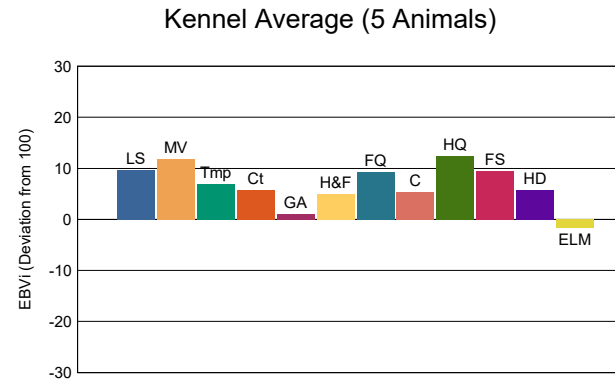
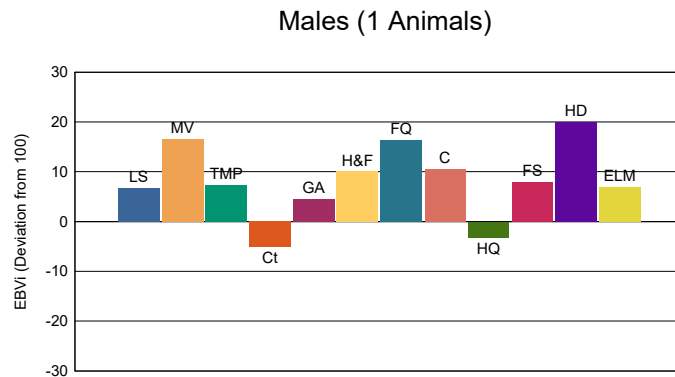
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	110	107	111
Movement (Mv)	112	117	111
Temperament (Tmp)	107	107	107
Coat (Ct)	106	95	109
General Appearance	101	105	100
Head & Face (H&F)	105	110	104
Front Quarter (FQ)	109	116	108
Centre (C)	105	111	104
Hind Quarter (HQ)	112	97	116
Final Score (FS)	110	108	110
Hip Health (HH)	106	120	102
Elbow Health (ELM)	98	107	96

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.

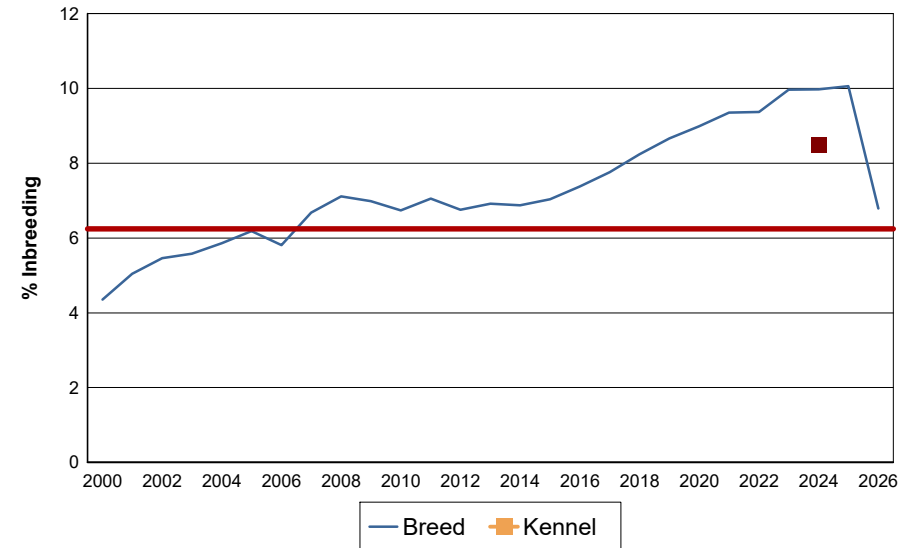
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	5	49007	1	25141	4	23857	3	3371	3	6287
Average Inbreeding	9.22	8.49	10.08	8.46	9.01	8.53	11.62	8.01	9.03	8.00
Number inbred	5	48727	1	24990	4	23728	3	24990	3	23728
Number >6.25% Inbr.	5	30600	1	15537	4	15058	3	15537	2	15058

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.	Movement	Temperament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
BLACK IRON NICCO		BLACK IRON KEEPER	10.08	120	107		117	107	95	105	110	116	111	97	108						
	2022	BLUE LINE ZUMA		5	12		41	7	56	40	55	42	44	46	51						

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	
PETERBUILT LUNA		MES BENOIT	10.59	113	98	94	103	110	105	109	117	118	112	123	119						
	2024	KLEIN SANDFONTEIN BALITA		5	5	20	44	18	58	43	57	45	47	49	53						
UNIQUE BELLA		PRODIGIOUS CAIRO	8.48	99	96	116	113	106	110	97	99	104	101	114	107						
	2024	PRODIGIOUS NAIROBI		5	5	5	25	5	39	24	38	26	28	30	35						
UNIQUE NOVA		PRODIGIOUS CAIRO	8.48	99	96	116	113	106	110	97	99	104	101	114	107						
	2024	PRODIGIOUS NAIROBI		5	5	5	25	5	39	24	38	26	28	30	35						
UNIQUE 900263000706154		PRODIGIOUS CAIRO	8.48	99	96	116	113	106	110	97	99	104	101	114	107						
	2024	PRODIGIOUS NAIROBI		5	5	5	25	5	39	24	38	26	28	30	35						

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	
MES BENOIT		MES ARNOLD 1	10.39	109	96	76	109	109	95	100	116	111	108	110	113	75 12	22 18			9
	2018	MES LALLI		26	45	44	68	46	81	68	80	69	71	73	77					2
BLACK IRON KEEPER		KLEIN SANDFONTEIN JUDGE	8.42	131	121	102	104	111	77	105	107	121	104	90	101	70 10	18 14	3	4	9
	2020	MIDDELPOS BBD KERRIE		33	52	39	60	36	73	59	73	61	63	65	69					1
PRODIGIOUS CAIRO		MES PETER PAN	16.04	97	99	126	114	109	109	93	92	110	104	122	107	13 1				
	2022	COLOS AYA		5	5	17	49	17	64	49	63	49	52	54	59					

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	
BLUE LINE ZUMA		MES YSTER	5.86	110	93	111	125	103	112	101	119	114	116	109	118	9	1	4	1	1	
	2020	BARBARIAN MONTEZUMA		5	21	21	42	17	56	42	55	43	45	47	52			4	1	1	
KLEIN SANDFONTEIN BALITA		MES RETIEF	13.87	117	100	111	101	113	117	120	113	122	116	132	123	9	1	3			
	2021	KLEIN SANDFONTEIN BLIZZARD		5	5	39	53	28	68	52	67	54	56	58	63			2			
PRODIGIOUS NAIROBI		KAMMO BBD HONDO	7.36	100	92	106	113	102	111	102	107	98	99	106	106	13	1				
	2022	NARCO KIM		5	5	8	43	9	59	45	58	44	46	49	54						

