

Boerboel Genetic Evaluation

SA Stud Book
February 2026

0 0 LOUW-BOELA BOERBOEL

7 HEUWEL STREET
PROTEA HEIGHTS
BRACKENFELL
7560



Kennel Number: 730144



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.

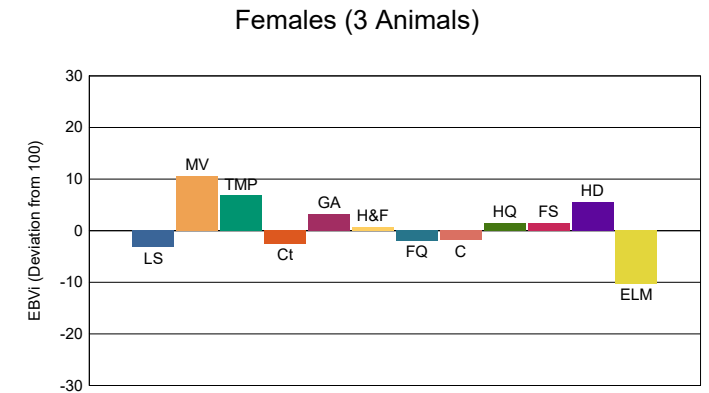
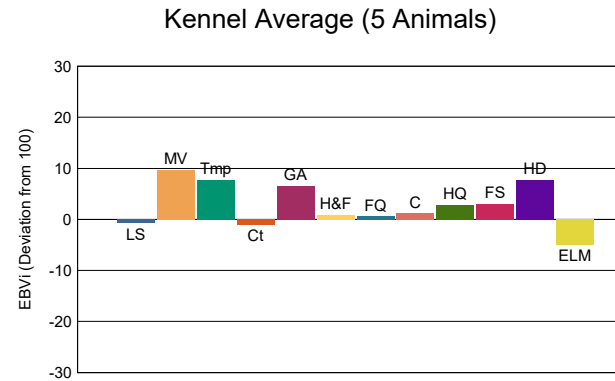
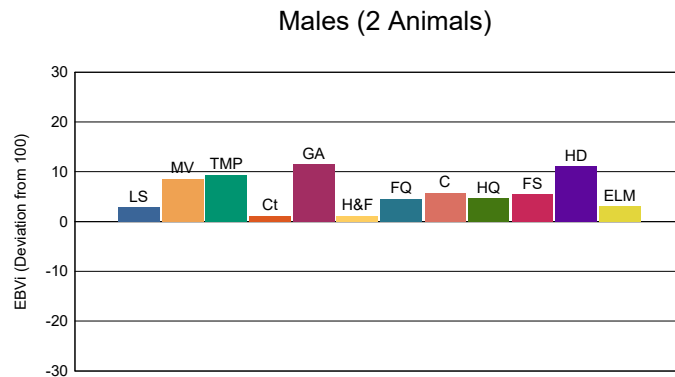
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	103	97
Movement (Mv)	110	109	111
Temperament (Tmp)	108	109	107
Coat (Ct)	99	101	97
General Appearance	107	111	103
Head & Face (H&F)	101	101	101
Front Quarter (FQ)	101	105	98
Centre (C)	101	106	98
Hind Quarter (HQ)	103	105	102
Final Score (FS)	103	105	101
Hip Health (HH)	108	111	106
Elbow Health (ELM)	95	103	90

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.

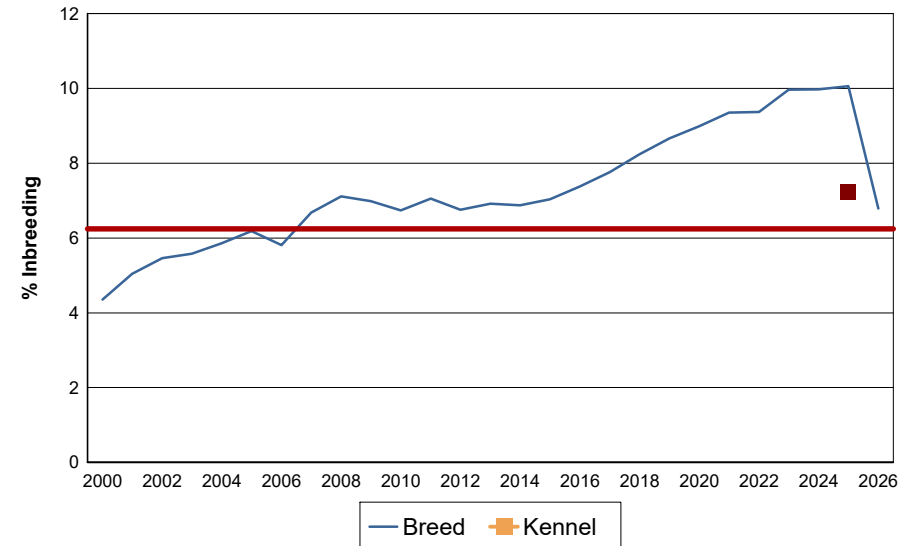
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	2	25141	3	23857	4	3371	4	6287
Average Inbreeding	8.47	8.49	9.45	8.46	7.81	8.53	8.28	8.01	7.17	8.00
Number inbred	5	48727	2	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	3	15537	4	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	Sire	Dam	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	litters
BYr	Dam			Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
KLEIN SANDFONTEIN SMOKEY	MIDDELPOS BBD TANK I		9.55	114	114	108	105	103	108	108	99	104	110	104	105						
	2019 KLEIN SANDFONTEIN LIEFA			5	5	31	40	16	52	40	51	41	43	45	48						
MALAKAS GENERAL	MALAKAS PRADO		9.34	108	92	98	112	116	94	115	103	105	102	105	106						
	2024 RAINAISANCE STARFIRE			5	5	5	27	5	41	27	40	27	30	32	36						

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	
RAINAISANCE STARFIRE		ATKINS X-FACTOR	7.59	108	91	98	104	113	92	112	101	100	102	105	103	16	3	1			
	2021	RAINAISANCE LANA		5	5	25	47	22	61	48	61	48	50	52	57			1			
PIONEER NALA		NARCO CAIN	6.51	101	86	95	116	92	106	83	98	90	91	95	95						
	2021	WALSH PEPPER		5	5	5	38	5	56	39	55	39	42	45	50						
MALAKAS TRIXIE		MALAKAS PRADO	9.34	108	92	98	112	116	94	115	103	105	102	105	106						
	2024	RAINAISANCE STARFIRE		5	5	5	27	5	41	27	40	27	30	32	36						

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	
MIDDELPOS BBD TANK I	2015	MIDDELPOS BBD BOETA	11.54	133	127	109	108	108	113	112	112	112	108	100	111	58	8	21	3	3
		MIDDELPOS BBD DIXIE		24	37	50	66	44	79	66	78	67	69	71	75					
ATKINS X-FACTOR	2017	GROENBERG BBD RAMBO	7.09	117	90	102	109	110	113	106	109	96	102	113	111	20	3	11		8
		VOEL GERUS MILEY		19	27	47	66	47	78	65	77	66	68	70	74					
NARCO CAIN	2020	KLOPDISSELBOOM SUPER KHAN	8.69	96	87	94	113	94	96	92	95	92	99	96	96	27	8	9		1
		KLOPDISSELBOOM BABY CHOCOLATES		5	5	5	50	11	70	48	69	51	54	57	64					
MALAKAS PRADO	2021	ELEVATION GUNNER	5.80	109	93	97	120	119	96	119	105	110	101	106	108	11	1	1		
		DELATRO CARA		5	5	7	43	13	60	42	59	44	46	49	54					

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	
KLEIN SANDFONTEIN LIEFA	2017	KLEIN SANDFONTEIN MATANA	7.51	95	101	107	103	98	104	103	86	97	112	108	100	26	3	7			3
		KLEIN SANDFONTEIN REEVA		15	28	56	57	34	72	57	71	58	60	63	67			7			1
WALSH PEPPER	2018	ATKINS GRIDLOCK	7.18	105	85	96	116	104	104	90	100	96	91	100	99	15	2	4			3
		WALSH WINNIE 3		5	5	13	50	23	68	50	67	51	54	56	62			4			1
RAINAISANCE LANA	2019	RAINAISANCE ROMEO	6.43	98	92	95	98	101	106	104	97	95	96	92	96	19	4	5			1
		MIDDELPOS BBD FIELA		5	5	32	56	28	72	56	71	57	59	62	67			5			1
RAINAISANCE STARFIRE	2021	ATKINS X-FACTOR	7.59	108	91	98	104	113	92	112	101	100	102	105	103	16	3	1			
		RAINAISANCE LANA		5	5	25	47	22	61	48	61	48	50	52	57			1			

