

Boerboel Genetic Evaluation

SA Stud Book
February 2026

0 0 C.N. NGOCA & E.A. NHANALA

Q, 3 CELUA C
MATOLA RIO
BOANE
MOZAMBIQUE



Kennel Number: 715573



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.

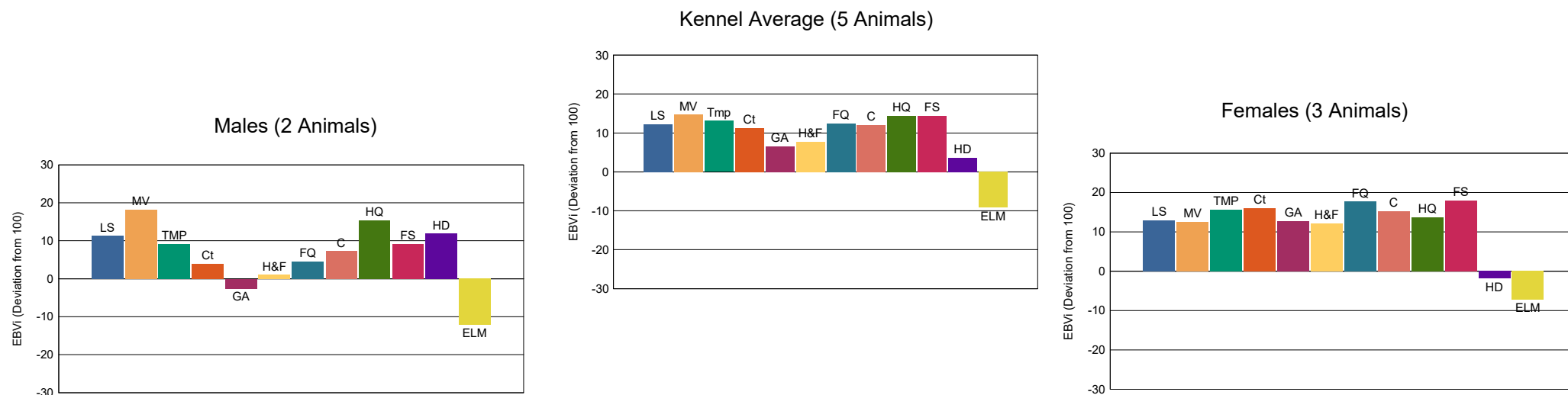
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	112	111	113
Movement (Mv)	115	118	112
Temperament (Tmp)	113	109	116
Coat (Ct)	111	104	116
General Appearance	107	97	113
Head & Face (H&F)	108	101	112
Front Quarter (FQ)	112	105	118
Centre (C)	112	107	115
Hind Quarter (HQ)	114	115	114
Final Score (FS)	114	109	118
Hip Health (HH)	104	112	98
Elbow Health (ELM)	91	88	93

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.

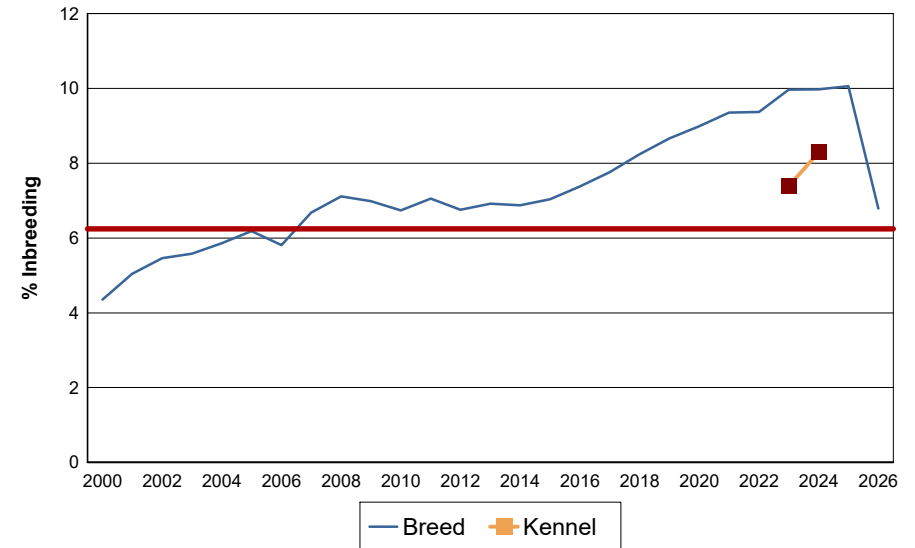
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	5	6287
Average Inbreeding	10.20	8.49	11.84	8.46	9.11	8.53	15.09	8.01	8.45	8.00
Number inbred	5	48727	2	24990	3	23728	4	24990	5	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	4	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	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	
DEO-HAN KING		DEO-HAN BLIKSEM	16.29	116	87	115	119		95	94	105	104	106	117	110	8	5	1			
	2021	DEO-HAN BUKA		5	5	5	47		64	46	63	48	50	53	58			1			
BEST MOZ MAX		DEO-HAN KING	7.39	107	89	107	117	111	113	101	97	105	109	114	109						
	2023	WOR QUEEN		5	5	5	25	5	39	24	39	26	28	31	35						

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	
WOR QUEEN		SA SUPERIOR GRIZZLY	7.17	98	90	100	115	114	130	107	89	107	112	110	107	1	1				
	2020	CDH PHILA		5	5	13	47	15	63	46	62	48	50	53	58						
BOSTU PRINCESS		BOSTU SION	8.29	93	95	118	108	112	96	108	114	115	108	107	112	3	1				
	2022	BOSTU DELINE		5	18	26	46	17	62	46	61	47	49	52	57						
BOSTU JAYDESEN		BOSTU SION	11.88	103	94	121	115	121	122	123	134	132	126	124	134						
	2023	BOSTU JAY-DEE		5	27	11	45	12	62	44	61	46	48	51	56						

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		
SA SUPERIOR GRIZZLY		SA SUPERIOR VOO DOO	19.35	89	87	102	119	122	137	120	101	123	128	111	119	21 2	9 7			8 2	
	2016	SA SUPERIOR PEPSI		5	5	5	56	21	72	54	71	57	59	62	67						
DEO-HAN BLIKSEM		DEO-HAN BOTHA	14.33	119	99	112	128	110	101	96	113	114	113	122	118	18 2	6 5			4 1	
	2017	DEO-HAN ZIGGIE		5	5	19	59	32	73	59	72	60	62	64	69						
BOSTU SION		KLEIN SANDFONTEIN BROC	10.39	108	109	123	116	106	110	97	131	132	114	110	123	73 9	13 5	1 1		4 2	
	2020	ELEVATION TALITA		35	55	31	61	34	76	60	75	62	64	67	71						
DEO-HAN KING		DEO-HAN BLIKSEM	16.29	116	87	115	119		95	94	105	104	106	117	110	8 5	1 1				
	2021	DEO-HAN BUKA		5	5	5	47		64	46	63	48	50	53	58						

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	
CDH PHILA		MIDDELPOS BBD JOCK 1	11.98	107	94	93	115	108	124	98	84	95	97	113	101	20	2	9			7
	2018	CDH ELLA		5	5	44	59	36	73	59	72	60	62	64	68			6			1
DEO-HAN BUKA		MES RUBENSTEIN	6.50	114	75	118	118	111	102	91	96	101	97	117	105	18	2	6			4
	2018	DEO-HAN ZARAH		7	21	38	59	39	72	59	71	60	61	64	68			5			1
WOR QUEEN		SA SUPERIOR GRIZZLY	7.17	98	90	100	115	114	130	107	89	107	112	110	107	1	1				
	2020	CDH PHILA		5	5	13	47	15	63	46	62	48	50	53	58						
BOSTU DELINE		BOSTU DADDY COOL	10.43	78	80	118	95	121	105	131	108	103	115	109	113	18	2	3	1	1	2
	2021	AFRIKA RULE		21	37	42	60	37	73	59	72	60	62	64	69			2			1
BOSTU JAY-DEE		BOSTU DADDY COOL	6.16	98	79	119	106	125	109	137	123	115	124	119	126	21	2	2			
	2021	ELEVATION J LO		37	56	43	57	32	72	56	71	58	60	62	67			2			

