

Boerboel Genetic Evaluation

SA Stud Book
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5 PEACEPAL CLOSE

PALMVIEW

PHOENIX

4068



Kennel Number: 722196



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.

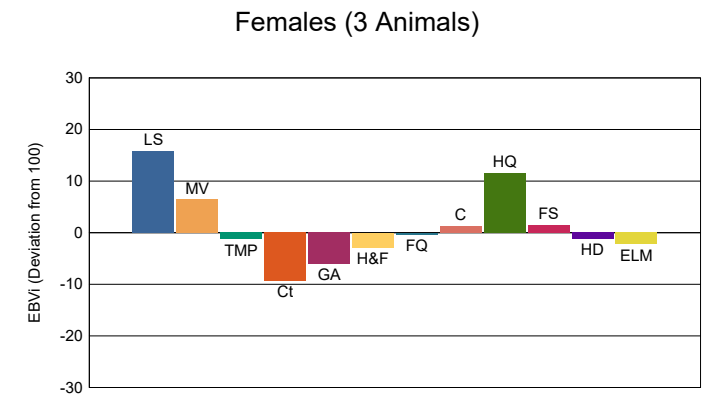
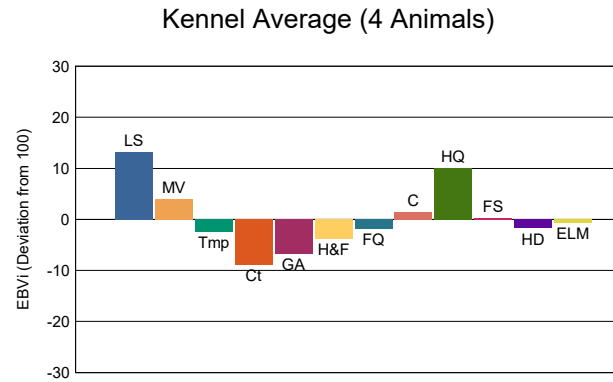
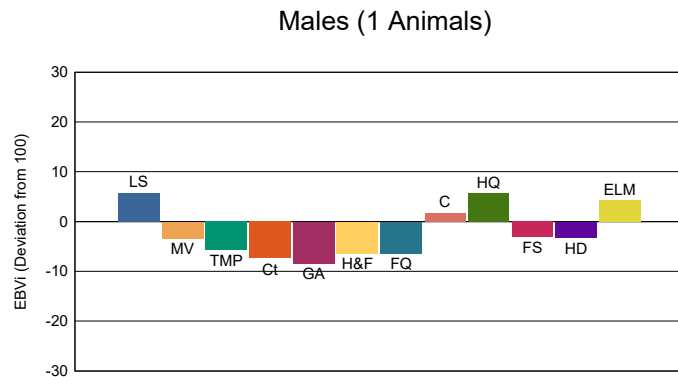
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	113	106	116
Movement (Mv)	104	97	106
Temperament (Tmp)	98	94	99
Coat (Ct)	91	93	91
General Appearance	93	92	94
Head & Face (H&F)	96	94	97
Front Quarter (FQ)	98	94	100
Centre (C)	101	102	101
Hind Quarter (HQ)	110	106	112
Final Score (FS)	100	97	101
Hip Health (HH)	98	97	99
Elbow Health (ELM)	99	104	98

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.

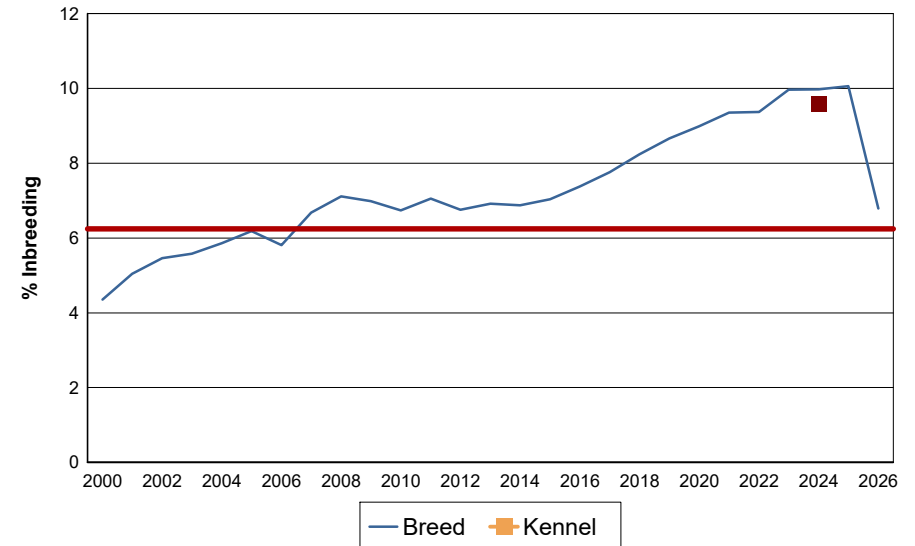
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	4	49007	1	25141	3	23857	4	3371	4	6287
Average Inbreeding	12.21	8.49	9.59	8.46	13.08	8.53	9.92	8.01	9.05	8.00
Number inbred	4	48727	1	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	3	30600	1	15537	2	15058	4	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.	Move-ment	Tempe-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny Litters	Progeny Kennels		Hips	Elbows	
SHANSAFRICA LUKA		BOUWER MAXIMUS 2	9.59	97	104	106	97	94	93	92	94	94	102	106	97						
	2024	REYDALL HANNAH		5	5	5	16	5	35	15	34	17	20	24	29						

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

Progeny
with
litters

MES CASSIE

2022

MES TIMTIM

MES FELMA

27.37

100

95

125

121

100

97

77

92

98

99

133

106

5

5

5

40

5

59

39

58

41

44

47

53

REYDALL HANNAH

2022

REYDALL PIET

REYDALL NIXIE

7.30

101

100

109

103

94

94

90

87

90

95

96

90

8

1

5

5

5

37

5

56

36

54

38

40

43

49

AMASCUS ELSA

2022

DELMA TOKKAS I

KADIMA RUBY

4.58

96

98

114

95

102

81

115

113

111

110

106

108

5

5

25

44

16

59

43

58

44

47

49

54

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	
DELMA TOKKAS I		DEO-HAN ZORBA	6.61	110	93	95	121	114	64	113	100	106	122	116	109	126 15	16 16			12
	2016	ELEVATION LOLA		5	5	44	60	34	74	59	74	61	63	65	70					3
MES TIMTIM		MES FELIX BOETA	14.37	103	98	126	113	101	103	87	99	107	101	125	108	2	2 2			1
	2020	MES CHLOE		5	5	35	58	35	72	58	72	59	61	63	68					1
REYDALL PIET		BOUWER PANTHER	7.69	101	101	105	103	88	103	91	92	95	91	98	93	13 2	2 2			1
	2021	REYDALL JASMIN		5	5	18	45	9	64	45	62	46	49	52	57					1
BOUWER MAXIMUS 2		KAMMO BBD BOTTER	11.03	93	108	103	90	95	91	93	101	97	109	116	104	8 1				
	2021	BOUWER PRADA		5	5	5	35	5	51	34	50	36	38	41	46					

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
REYDALL NIXIE		MES ZAZU	5.38	100	100	113	115	112	75	94	98	96	109	108	102	7	1	1			1
	2020	KLEIN WITWAL BBD MYSTIQUE		5	5	28	40	12	54	40	53	41	43	45	49			1			1
KADIMA RUBY		BREKER FANUS	5.06	82	104	134	75	79	99	96	94	95	86	100	90	31	4	3			
	2021	KADIMA TRUVELO		5	5	45	55	32	68	55	67	56	58	60	64			3			
MES FELMA		MES FELIX BOETA	18.47	96	91	123	111	98	100	83	100	99	99	123	106	8	1	4			1
	2021	MES MELISSA		5	5	38	52	26	65	52	64	53	55	57	61			2			1
REYDALL HANNAH		REYDALL PIET	7.30	101	100	109	103	94	94	90	87	90	95	96	90	8	1				
	2022	REYDALL NIXIE		5	5	5	37	5	56	36	54	38	40	43	49						

