

Boerboel Genetic Evaluation

SA Stud Book
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26 HELENA LOCHNER

0

VANDERBIJLPARK

1911



Kennel Number: 724881



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.

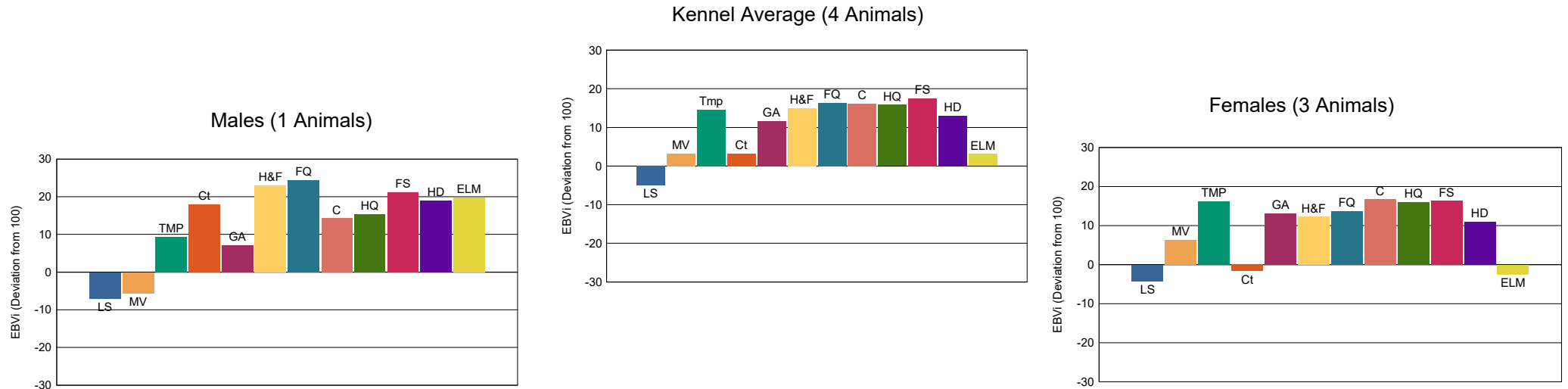
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	95	93	96
Movement (Mv)	103	94	106
Temperament (Tmp)	115	109	116
Coat (Ct)	103	118	98
General Appearance	112	107	113
Head & Face (H&F)	115	123	112
Front Quarter (FQ)	116	125	114
Centre (C)	116	114	117
Hind Quarter (HQ)	116	115	116
Final Score (FS)	117	121	116
Hip Health (HH)	113	119	111
Elbow Health (ELM)	103	120	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.

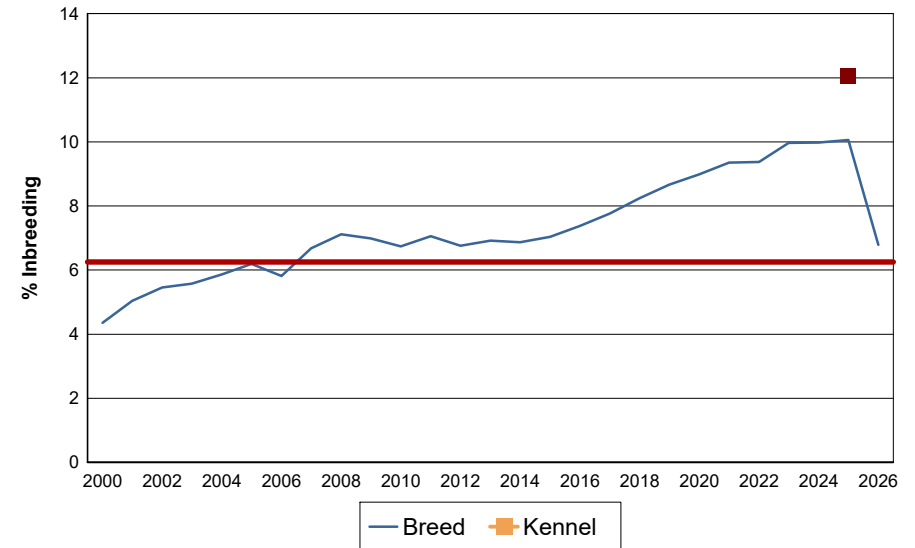
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	10.79	8.49	10.62	8.46	10.85	8.53	7.08	8.01	18.24	8.00
Number inbred	4	48727	1	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	4	30600	1	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	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	
BANDIT LC MARCUS AURULIS		MIDDELPOS BBD XANDER I	10.62	119	120	93	94	109	118	107	123	125	114	115	121						
	2025	PAURON ELSA		5	5	5	34	5	47	33	46	34	36	39	43						

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	
HARDT LUNA		BOSTU SIMBA I	10.69	110	95	87	104	118	90	113	113	112	118	118	116	3	1				
	2023	CDH NONNA 2		5	5	15	29	5	39	29	39	30	31	33	36						
AMA-ZEN LC CLARA		BASJAN BOESMAN	9.80	117	98	110	117	115	108	112	111	115	113	111	116						
	2025	ALESSANDRO NAKIA		5	5	5	24	5	38	23	37	25	27	30	34						
LC DEKOTA		KADOS TROMPIE	12.06	105	100	91	97	116	97	114	113	114	119	119	117						
	2025	HARDT LUNA		5	5	5	30	5	41	29	40	31	33	34	38						

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			
KADOS TROMPIE		TARGUS BOM BOEL	8.44	101	105	95	90	114	104	115	112	115	120	120	117	70 16	12 7		3		
	2020	MES LULU V		5	5	40	66	43	78	64	78	66	68	70	74					2	
MIDDELPOS BBD XANDER I		MIDDELPOS BBD GAMKA	6.87	126	130	96	93	111	120	107	120	119	117	115	120	27 8	7 6		1		
	2020	DELATRO X'SASKIA		5	17	32	60	37	74	60	74	61	63	65	70					1	
BOSTU SIMBA I		BOSTU ZAZU	5.99	111	80	69	101	114	88	119	118	106	115	116	116	33 5	3 3		2		
	2021	ELEVATION PARIS HILTON		21	36	40	57	36	68	56	67	57	59	61	64					1	
BASJAN BOESMAN		AFRIKA DOPPIES	7.00	119	96	131	115	118	104	119	127	130	120	104	122	40 5					
	2021	AFRIKA OUNOOI		5	5	29	51	24	67	50	66	52	54	57	62						

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 NONNA 2	2021	CDH SNIPER	21.71	109	109	104	108	122	92	108	108	118	120	120	117	5	1	1			1
		CDH PHOEBE		5	5	36	41	14	52	41	51	42	44	45	48			1			1
PAURON ELSA	2021	KADIMA OLAF	14.88	112	110	91	96	108	116	107	126	130	112	116	122	22	4	1	1	1	
		MIDDELPOS BBD SAVAN		5	5	8	48	14	66	48	65	49	52	54	60			1			
ALESSANDRO NAKIA	2022	CDH MONTARO	25.70	116	101	89	119	112	113	105	96	101	107	119	109	6	1				
		WOEKER BBD WOeka		5	5	10	35	5	47	34	47	36	38	40	44						
HARDT LUNA	2023	BOSTU SIMBA I	10.69	110	95	87	104	118	90	113	113	112	118	118	116	3	1				
		CDH NONNA 2		5	5	15	29	5	39	29	39	30	31	33	36						

