

Boerboel Genetic Evaluation

SA Stud Book

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ESPANA



Kennel Number: 711561



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.

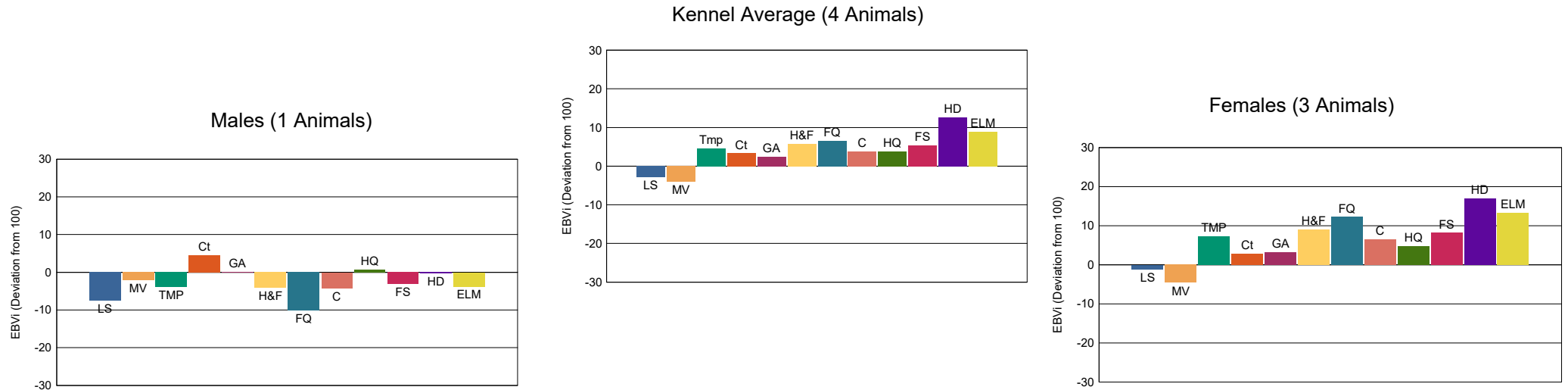
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	97	92	99
Movement (Mv)	96	98	95
Temperament (Tmp)	105	96	107
Coat (Ct)	103	105	103
General Appearance	103	100	103
Head & Face (H&F)	106	96	109
Front Quarter (FQ)	107	90	112
Centre (C)	104	96	107
Hind Quarter (HQ)	104	101	105
Final Score (FS)	105	97	108
Hip Health (HH)	113	100	117
Elbow Health (ELM)	109	96	113

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.

Rate of Inbreeding

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%

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	7.26	8.49	6.98	8.46	7.36	8.53	7.64	8.01	8.65	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	3	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	
	BYr			Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
NARCO LEO		HAZELL THE TAXMAN	6.98	100	96	92	98	96	105	100	96	90	96	101	97						
	2021	KLOPDISSELBOOM ASHANTI		5	5	14	43	13	59	42	58	44	46	48	54						

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	
VOICE VITA BAGHEERA		MIDDELPOS BBD BRUCE	3.94	120	118	90	82		113	88	103	108	108	104	104					
	2023	VOICE VELD CHANGE OF THE MOON		5	27	5	37		55	36	53	38	40	43	48					
YSTERHART DUNA		VEILIGPLEK POKER	9.21	100	90	106	108	117	104	118	110	110	100	105	110					
	2023	YSTERHART DEMO		5	5	5	34	5	53	34	52	35	38	41	47					
MAD MADDIE		MIDDELPOS BBD JAVA	8.92	131	132	101	96	109	91	103	114	119	112	106	111					
	2024	BLACK IRON INDIANA		5	5	5	31	5	44	30	43	31	33	35	39					

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	
HAZELL THE TAXMAN		ALPHONSE ALDO	8.10	95	102	96	102	110	89	105	99	103	106	111	104	4	1	1		1
	2018	MARANATA BBD MIA 2		5	5	24	40	18	51	39	50	40	42	44	47					
MIDDELPOS BBD BRUCE		MIDDELPOS BBD GAMKA	6.87	128	135	96	95	109	110	99	118	121	115	113	117	16	3	3	1	1
	2019	DELATRO X' SASKIA		5	36	32	53	33	62	52	62	53	55	56	59					
VEILIGPLEK POKER		QUOVADIS PARTNER IN CRIME	8.72	98	97	114	105	118	105	118	109	109	103	107	110	55	6	6	2	2
	2020	VEILIGPLEK KUMA		8	7	13	49	21	66	49	65	50	52	55	60					
MIDDELPOS BBD JAVA		MIDDELPOS BBD GAMKA	6.87	135	149	96	85	107	92	99	129	124	116	107	117	27	4	4	1	1
	2020	DELATRO X' SASKIA		11	35	32	57	35	70	57	69	58	60	62	66					

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	
KLOPDISSELBOOM ASHANTI	2015	MIDDELPOS BBD MAL JAN	4.70	104	90	89	82	84	107	98	98	86	87	86	89	19	3	7			5
		BOSVLEI ALPHONS KOKKIE		5	5	42	60	34	75	59	74	61	63	65	70			7			2
VOICE VELD CHANGE OF THE MOON	2018	VOICE VELD MAYBAH	8.68	112	100	85	74	83	112	86	84	91	95	84	85	23	3	6	2	2	3
		VOICE VELD DIANA ROSS		5	54	5	20	5	42	19	41	21	25	28	35			5			1
YSTERHART DEMO	2021	AFRIKA TARZAN	7.86	101	82	98	109	112	108	105	104	104	95	103	105	18	2	2			
		ANUKH D'NIARA		5	5	21	42	11	60	42	59	43	46	49	54			2			
BLACK IRON INDIANA	2022	BLACK IRON KEEPER	13.35	127	116	106	108	111	91	107	99	114	107	104	104	9	1				
		BLACK IRON TALLY		5	12	11	43	5	61	42	60	44	47	49	55						

