

Boerboel Genetic Evaluation

SA Stud Book

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Kennel Number: 716548



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.

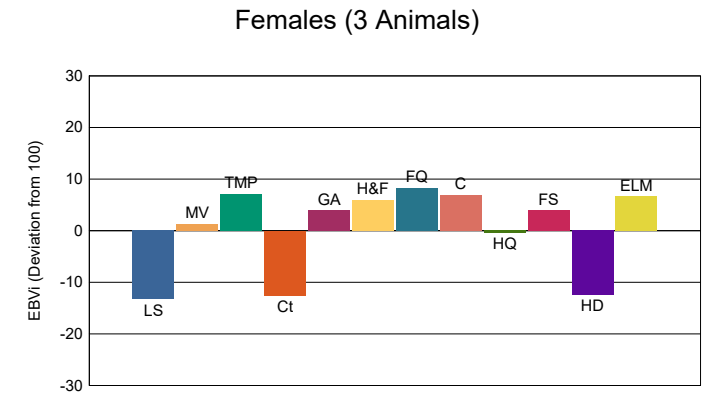
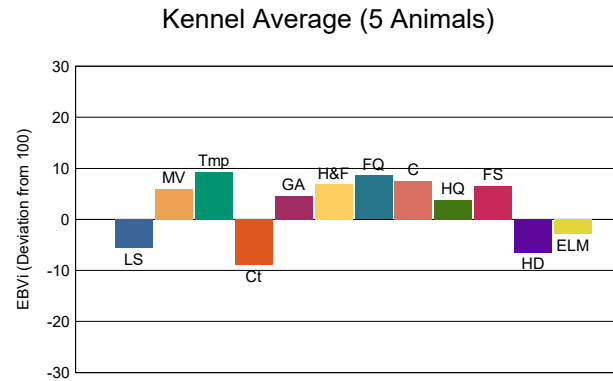
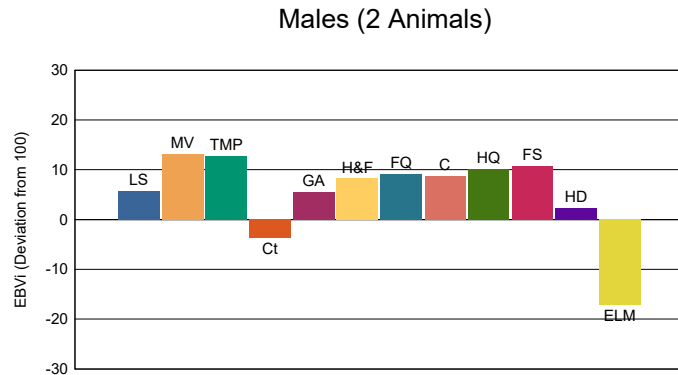
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	94	106	87
Movement (Mv)	106	113	101
Temperament (Tmp)	109	113	107
Coat (Ct)	91	96	88
General Appearance	105	106	104
Head & Face (H&F)	107	108	106
Front Quarter (FQ)	109	109	108
Centre (C)	108	109	107
Hind Quarter (HQ)	104	110	100
Final Score (FS)	107	111	104
Hip Health (HH)	93	102	88
Elbow Health (ELM)	97	83	107

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.

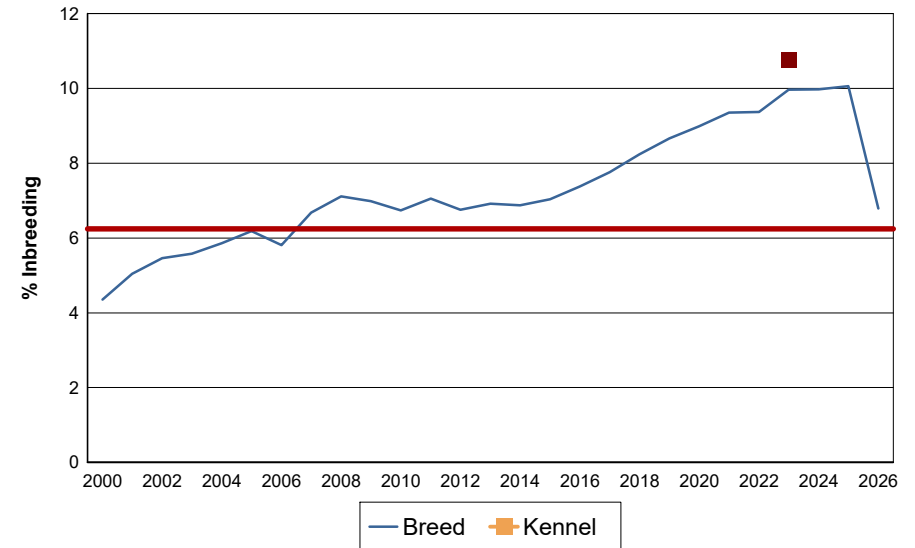
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	10.38	8.49	10.96	8.46	9.99	8.53	8.93	8.01	6.43	8.00
Number inbred	5	48727	2	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	4	30600	2	15537	2	15058	3	15537	1	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	
LOMBARD SUPERIOR DENVER		MES RUBENSTEIN	11.16	111	73	116	117	113	98	103	107	107	108	115	112	18	4				
	2019	LOMBARD SUPERIOR ALASKA		8	25	36	55	37	65	54	65	56	57	59	62						
JAQ SUPER AUSTIN		LOMBARD SUPERIOR DENVER	10.75	93	93	96	110	112	95	108	110	112	110	105	110						
	2023	LOMBARD SUPERIOR MOLLY		5	5	17	30	5	37	29	37	30	31	33	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	
LOMBARD SUPERIOR MOLLY	2020	TARGUS RAM	6.14	75	114	75	103	111	91	112	113	117	111	96	108	3	1				
		ELEVATION DEKOTA		5	12	42	53	34	64	53	63	54	55	57	60						
JAQ SUPER MEGAN	2023	LOMBARD SUPERIOR DENVER	10.75	93	93	96	110	112	95	108	110	112	110	105	110						
		LOMBARD SUPERIOR MOLLY		5	5	17	30	5	37	29	37	30	31	33	35						
TOKARA KARMELL	2024	BOSTU KORAT KAT	13.08	94	113		92	98	77	92	95	96	100	98	93						
		TOKARA AIKA		5	5		22	5	34	22	33	23	25	27	30						

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		
MES RUBENSTEIN		GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314 52	101 83	21 20	83 11		
	2016	MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90						
TARGUS RAM		SPITSVUUR BBD TOKARA DRIFTER	11.20	57	129	70	99	99	82	105	100	100	111	91	98	269 46	77 56	3 3	44 14		
	2017	TARGUS RINA		14	30	60	82	62	90	82	90	83	84	85	88						
LOMBARD SUPERIOR DENVER		MES RUBENSTEIN	11.16	111	73	116	117	113	98	103	107	107	108	115	112	18 4					
	2019	LOMBARD SUPERIOR ALASKA		8	25	36	55	37	65	54	65	56	57	59	62						
BOSTU KORAT KAT		CABARET STRAAT-KAT	9.29	100	119	91	80	97	86	102	93	94	103	94	93	6	1 1				
	2020	CDH MICCO		12	24	43	50	32	58	50	58	51	52	53	56						

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	Sire		%	Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	litters
	BYr	Dam		Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
ELEVATION DEKOTA		GROENBERG BBD RAMBO	5.78	94	99	83	103	119	101	118	125	128	107	99	116	13	4	5	1	1	5
	2016	ELEVATION LISA		33	44	61	65	48	76	65	75	66	68	69	73			4			4
LOMBARD SUPERIOR ALASKA		AFRIKA RAMBOMAX	5.52	112	86	99	115	97	87	109	115	106	117	103	110	24	2	11	1	1	10
	2017	AFRIKA TARA 1		17	31	41	62	39	76	61	75	63	65	67	72			11			2
LOMBARD SUPERIOR MOLLY		TARGUS RAM	6.14	75	114	75	103	111	91	112	113	117	111	96	108	3	1				
	2020	ELEVATION DEKOTA		5	12	42	53	34	64	53	63	54	55	57	60						
TOKARA AIKA		TOKARA RIPPER	8.30	89	106	88	103	99	67	81	96	98	97	102	94	8	1	1			
	2022	TOKARA MOANA		5	5	17	31	5	46	31	45	32	34	37	41			1			

