

Boerboel Genetic Evaluation

SA Stud Book
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149 WATSONIA STREET
BLUFF
DURBAN
4052



Kennel Number: 704517



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.

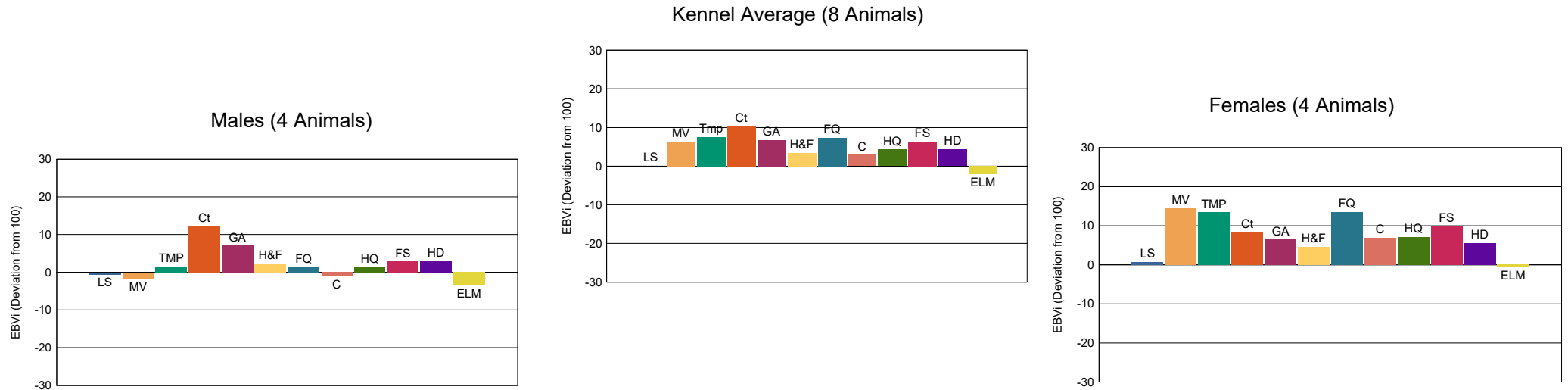
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	100	99	101
Movement (Mv)	106	98	114
Temperament (Tmp)	107	102	113
Coat (Ct)	110	112	108
General Appearance	107	107	106
Head & Face (H&F)	103	102	105
Front Quarter (FQ)	107	101	113
Centre (C)	103	99	107
Hind Quarter (HQ)	104	101	107
Final Score (FS)	106	103	110
Hip Health (HH)	104	103	106
Elbow Health (ELM)	98	97	99

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.

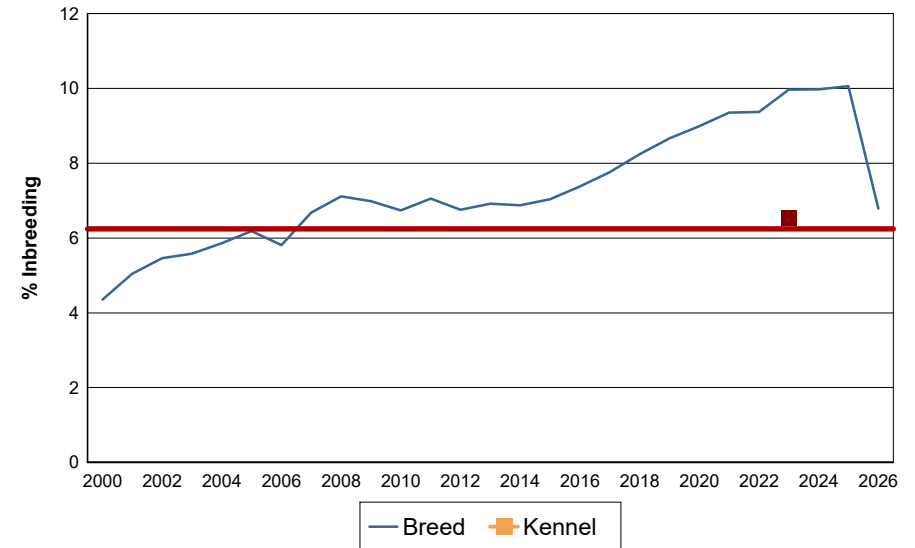
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	8	49007	4	25141	4	23857	6	3371	7	6287
Average Inbreeding	9.74	8.49	9.46	8.46	10.03	8.53	9.16	8.01	8.15	8.00
Number inbred	8	48727	4	24990	4	23728	6	24990	7	23728
Number >6.25% Inbr.	6	30600	3	15537	3	15058	5	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	
SAFIKA NTSIMBI		HEAVY WEIGHTS VOLCANO	5.31	98	95	98	55	85	106	118	112	98	96	95	99						
	2022	SUBIRI KHLOE		5	5	7	44	14	61	43	59	45	47	50	55						
GLOBAL BBD NKABI		GLOBAL BBD TIGER I	19.19	107	95	106	113	98	117	83	87	95	86	98	93						
	2022	GLOBAL BBD CANSU		5	5	5	27	5	53	26	52	29	33	37	45						
SINGLE TONE BLAZE		GLOBAL BBD TIGER I	6.53	106	104	103	123	114	120	106	99	112	107	109	110						
	2023	SAFIKA NANDI		5	5	5	21	5	37	20	36	22	24	27	32						
REALISTIC ATL BBS CAPTAIN LEO		ZKR BROCK	6.79	101	92	91	103	109	106	121	111	100	107	102	109						
	2023	REALISTIC ATL BBS ULTIMATE LUNA		5	5	5	24	5	38	23	37	25	27	30	34						

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 Progeny	Litters Litters	Progeny Kennels	Hips Elbows	Progeny with litters
SAFIKA NANDI	2020	KYLANO TAXMAN HEAVY WEIGHTS ZANDA	5.93	103 5	105 5	98 22	128 44	123 10	110 61	120 43	109 60	124 45	117 47	111 50	118 56	2	1			
LOMBARD SUPERIOR MISS DURBAN	2021	KADOS TEXAS LOMBARD SUPERIOR LIESCHKA	9.47	108 5	94 5	101 21	101 41	108 17	94 52	98 42	107 51	112 42	104 43	103 45	105 48					
SINGLE TONE STORM	2023	GLOBAL BBD TIGER I SAFIKA NANDI	6.53	106 5	104 5	103 5	123 21	114 5	120 37	106 20	99 36	112 22	107 24	109 27	110 32					
STRONG ARM CHLOE	2024	THUNDER VALLEY ODIN WATERCREST THENA	18.20	105 5	94 5	102 5	106 5	109 5	109 21	102 5	104 20	106 5	99 5	105 5	106 13					

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			
ZKR BROCK		PENINSULA PLAYBOY	5.90	102	82	94	96	109	113	133	113	97	110	100	110	89	9	17		12	
	2018	MIDDELPOS BBD SERABIE		5	5	16	60	30	76	58	75	61	63	66	71						12
KYLANO TAXMAN		CRIHATA TROY	6.46	107	105	94	121	115	118	105	102	109	101	104	108	49	14	13		3	
	2018	KAMMO BBD ASTRID		5	5	20	54	24	72	54	71	55	58	61	66						10
KADOS TEXAS		TARGUS BOM BOEL	8.44	101	105	109	100	100	94	78	80	91	94	110	92	90	11	22		15	
	2020	MES LULU V		5	5	46	70	47	82	70	82	71	73	75	79						18
THUNDER VALLEY ODIN		THUNDER VALLEY BHUBES	14.43	101	101	101	104	105	108	99	104	103	97	102	103	4	1	1			
	2020	THUNDER VALLEY BABY		5	5	5	25	5	43	24	42	26	29	32	37						1
HEAVY WEIGHTS VOLCANO		AFRIKA GHUNTER	10.81	92	82	94	70	106	68	119	121	106	108	99	106	19	2	8		3	
	2021	JOSMOT MISS S.A.		5	5	24	59	33	74	59	73	60	62	65	69						7
GLOBAL BBD TIGER I		CDH KAMBRO	8.93	109	103		118	105	130	93	89	101	97	108	102	31	5	1			
	2021	GLOBAL BBD SHIELA		5	5		39	5	57	39	56	40	43	46	51						1

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	
HEAVY WEIGHTS ZANDA	2018	BOUWER STOFFEL 1	8.70	100	106	117	115	105	117	107	97	112	106	103	106	19	4	9			3
		BOUWER SASHA 1		5	5	41	49	17	67	49	66	50	53	56	61			7			1
GLOBAL BBD CANSU	2019	MES RUPERT	6.67	105	87	105	105	101	110	88	94	99	88	97	95	4	1	1			
		DRELENE AYDA		5	5	19	47	24	64	47	63	48	50	53	58			1			
LOMBARD SUPERIOR LIESCHKA	2019	AFRIKA DANTOR	11.14		83	92	102	115	94	118	134	133	114	96	119	11	1	2			1
		ELEVATION DEKOTA			28	42	56	33	70	56	69	57	59	61	65			2			1
WATERCREST THENA	2020	MES RUPERT	14.73	109	87	102	108	113	111	104	104	108	102	109	108	4	1	1			
		WARCOM LEYLA		5	5	12	33	6	42	32	42	33	35	36	39			1			
SUBIRI KHLOE	2020	BREKER FANUS	4.84	104	108	102	61	75	118	112	112	103	92	91	98	16	3	8			3
		ROBUST LEILA		5	5	31	55	29	70	54	69	56	58	60	65			6			1
SAFIKA NANDI	2020	KYLANO TAXMAN	5.93	103	105	98	128	123	110	120	109	124	117	111	118	2	1				
		HEAVY WEIGHTS ZANDA		5	5	22	44	10	61	43	60	45	47	50	56						
REALISTIC ATL BBS ULTIMATE LUNA	2022	KITEGAT DYSON	5.02	99	103	88	110	109	99	110	109	104	104	105	108	9					
		REMBRANDT BBD JAMY		5	5	5	15	5	32	14	31	17	19	22	27						

