

Boerboel Genetic Evaluation

SA Stud Book
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FERNESSE ESTATE, OTTERY
CAPE TOWN
7800



Kennel Number: 726013



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.

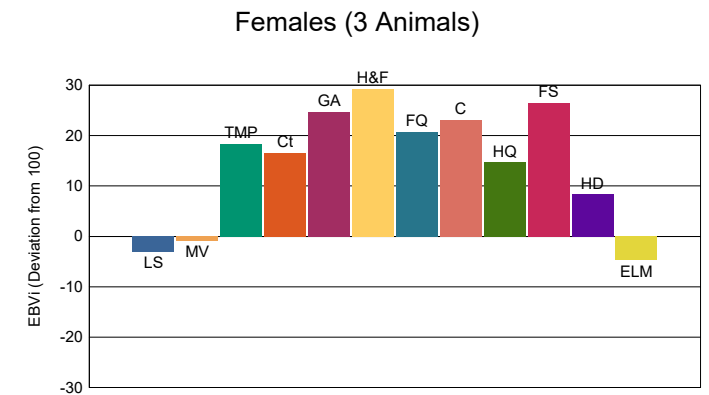
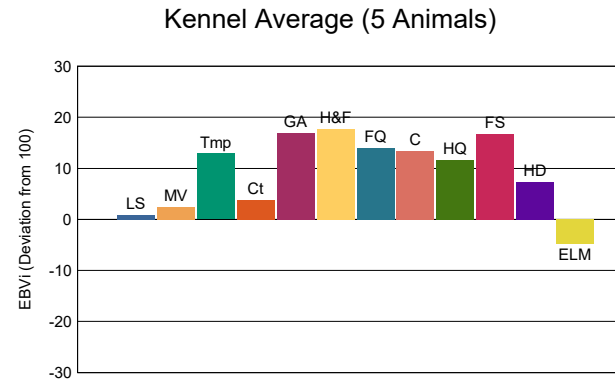
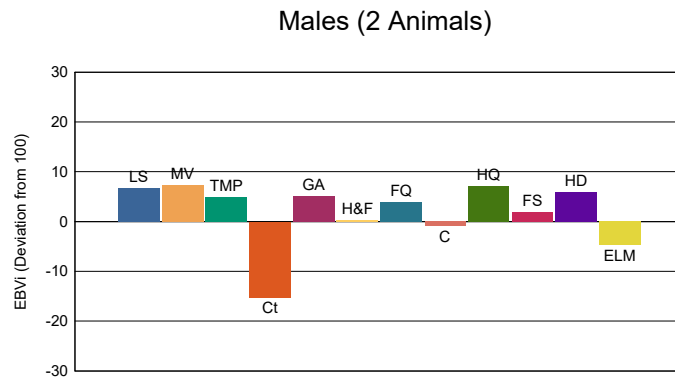
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	101	107	97
Movement (Mv)	102	107	99
Temperament (Tmp)	113	105	118
Coat (Ct)	104	85	117
General Appearance	117	105	125
Head & Face (H&F)	118	100	129
Front Quarter (FQ)	114	104	121
Centre (C)	113	99	123
Hind Quarter (HQ)	112	107	115
Final Score (FS)	117	102	127
Hip Health (HH)	107	106	108
Elbow Health (ELM)	95	95	95

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	5	49007	2	25141	3	23857	5	3371	5	6287
Average Inbreeding	10.30	8.49	10.80	8.46	9.97	8.53	10.39	8.01	11.65	8.00
Number inbred	5	48727	2	24990	3	23728	5	24990	5	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	3	15537	5	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	
NARCO DUKE		MASTERS EXQUISITE BIG VIRG	6.98	104	94	121	116	99	66	88	86	95	89	101	89						
	2023	COLOS AYA		5	5	15	45	15	60	39	60	46	48	51	55						
BRED YSTER		KLEIN SANDFONTEIN MAJOR TOM	14.62	108	96	92	98	111	104			113	109								
	2025	KLEIN SANDFONTEIN ELLA		5	5	5	32	5	47		47	33	35	38	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	
EMINENT ROSA		GUNSMOKE PRINCE	6.55	101	90	94	72	107	154	127	152	125	127	109	136						
	2023	WESTPOINT ZIVA		5	5	5	41	8	58	33	57	42	45	47	52						
ELEVATION RUBY III		ELEVATION KUDU	14.16	119	114	92	108	122	92	122	116	120	121	115	119						
	2024	ELEVATION DESPACITO		5	5	5	16	5	33	15	32	18	20	23	28						
ELEVATION ROXY 4		ELEVATION UTURN	9.21	106	82	104	118	125	103		119	117	121	120	124						
	2025	JAMBAL PLOOITJIES		5	5	5	31	5	43		42	32	34	36	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	
MASTERS EXQUISITE BIG VIRG		FRANK IRENE AANG	11.60	107	93	85	98	97	91	118	122	101	101	88	105	38	5	13		5
	2019	DELATRO DUCHESS		5	5	5	56	23	73	55	72	57	59	62	68					
KLEIN SANDFONTEIN MAJOR TOM		KLEIN SANDFONTEIN RASPUTIN	12.42	104	102	93	86	105	94	119	107	107	101	98	102	58	8	11		8
	2020	MES O' HARA		5	5	36	57	25	74	56	73	58	60	63	68					
GUNSMOKE PRINCE		DUMAS BIG DEAL	4.92	94	93	95	65	105	97	127	144	109	120	98	120	54	8	16		4
	2021	GATEKEEPER NOVA		5	5	5	59	32	73	57	72	60	62	64	69					
ELEVATION KUDU		VAN DER KEMP BLOCK	16.96	137	97	89	113	134	99	129	116	126	126	119	125	37	7			
	2022	JAMBAL KATINKA		5	35	5	41	5	61	41	60	42	45	48	54					
ELEVATION UTURN		BOSTU DADDY COOL	6.05	89	52	110	117	130	114	144	126	115	130	121	131	53	10	8	1	1
	2022	ELEVATION IMKE		29	47	32	58	35	72	58	71	59	61	63	67					

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	
WESTPOINT ZIVA	2020	ZUKANDI ZUKO	9.45	107	86	94	82	104	155	118	129	121	119	112	127	19	2	2			1
		KLOPDISSELBOOM RAGGELTJIE DE BEER		5	5	24	50	23	67	49	66	51	53	56	61						1
JAMBAL PLOOITJIES	2021	JAMBAL LEONIDAS	10.87	122	113	99	118	120	93	107	113	120	112	119	117	5	2				
		JAMBAL DOUBLE TROUBLE		5	5	29	45	20	55	44	55	45	47	49	52						
COLOS AYA	2021	MES FELIX BOETA	12.52	101	95	158	132	106	97	69	80	108	91	122	99	35	4	16			6
		CDH GIGA		5	5	51	62	38	76	62	75	63	65	67	72						2
ELEVATION DESPACITO	2021	ELEVATION ROY	12.71	101	131	95	102	111	86	114	117	115	117	110	114	9	1				
		ELEVATION VICKY		5	23	28	31	5	41	30	40	31	33	34	38						
KLEIN SANDFONTEIN ELLA	2022	MES RETIEF	12.68	112	91	91	110	116	114	125	123	119	117	129	127	11	2	1			1
		KLEIN SANDFONTEIN NEVAEH		5	5	39	50	23	67	50	66	51	53	56	61						1

