

Boerboel Genetic Evaluation

SA Stud Book
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32 SEPTEMBER CRESENT
SALSONIVILLE
PORT ELIZABETH
6059



Kennel Number: 717372



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.

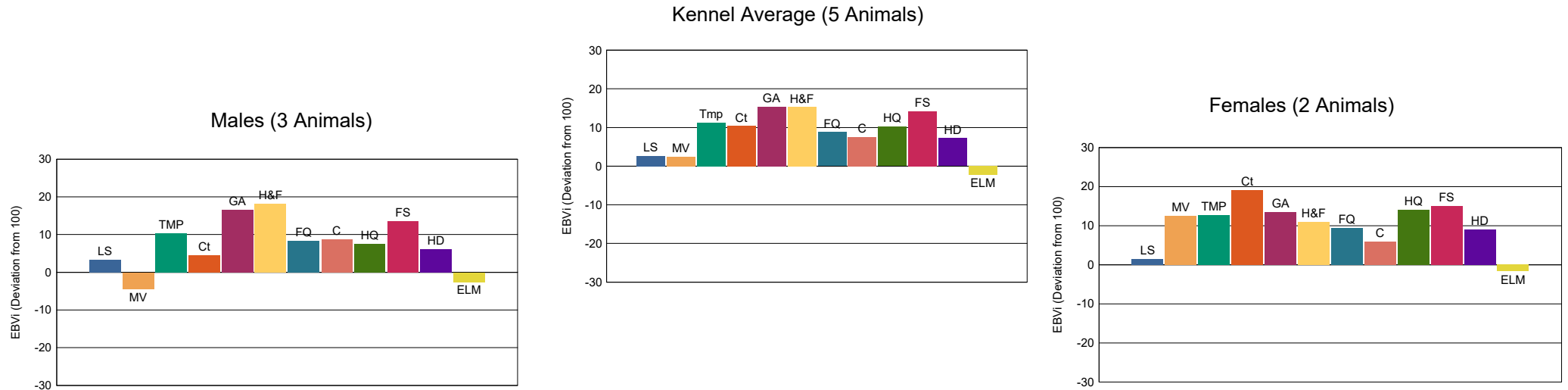
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	103	103	102
Movement (Mv)	102	96	113
Temperament (Tmp)	111	110	113
Coat (Ct)	110	105	119
General Appearance	115	117	113
Head & Face (H&F)	115	118	111
Front Quarter (FQ)	109	108	109
Centre (C)	108	109	106
Hind Quarter (HQ)	110	108	114
Final Score (FS)	114	114	115
Hip Health (HH)	107	106	109
Elbow Health (ELM)	98	97	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.

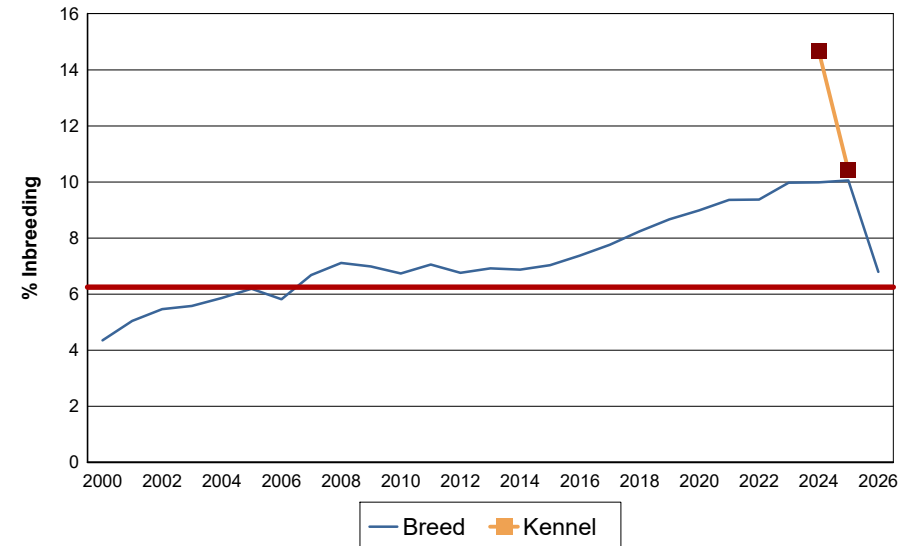
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	5	49007	3	25141	2	23857	5	3371	4	6287
Average Inbreeding	9.69	8.49	10.09	8.46	9.09	8.53	7.89	8.01	11.80	8.00
Number inbred	5	48727	3	24990	2	23728	5	24990	4	23728
Number >6.25% Inbr.	5	30600	3	15537	2	15058	3	15537	2	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	Litters	Progeny Kennels	Hips	Elbows	
KAWIE GHOST	2023	GUNSMOKE PRINCE	12.76	93	92	97	80	100	101	105	114	94	106	101	106						
		ZKR CIRILLA		5	5	5	32	5	47	31	46	33	36	38	43						
PIONEER MAORI	2024	MIDDELPOS BBD BRUCE ALMIGHTY	7.14	118	100	104	100	116	111	129	127	120	112	108	121						
		MALAKAS HONEY		5	5	7	42	15	53	41	53	42	44	46	50						
FAMILIENSCHUTZ RHINO	2025	BOELA DOLLAR	10.36	107	101	109	107	116	102	116	113	111	108	114	115						
		KLEIN SANDFONTEIN CARDI		5	5	5	23	5	37	23	36	24	26	28	33						

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	
VARSVLEI ZIA		KLEIN SANDFONTEIN GRIFFEL	10.42	108	96	103	114	109	114	106	110	107	105	118	114					
	2025	MASTERMINDS AMBER		5	5	5	14	5	33	13	32	16	19	22	28					
GAMEPLAN ZURI		PIONEER MAUI	7.76	110	101	101	111	116	124	121	112	112	106	111	116					
	2025	MASTERMINDS AMBER		5	5	5	14	5	32	12	31	15	18	22	27					

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	
MIDDELPOS BBD BRUCE ALMIGHTY		AFRIKA LEO 5	5.84	127	106	106	86	104	108	119	125	112	109	111	117	48 8	27 18	2	2	16 5
	2017	MIGHTY AFRIKA ZELLIE		32	49	37	69	44	82	68	81	70	72	74	78					
GUNSMOKE PRINCE		DUMAS BIG DEAL	4.92	94	93	95	65	105	97	127	144	109	120	98	120	54 8	16 15			4 4
	2021	GATEKEEPER NOVA		5	5	5	59	32	73	57	72	60	62	64	69					
KLEIN SANDFONTEIN GRIFFEL		MES RETIEF	12.68	112	91	108	110	107	108	102	117	109	112	128	120	4 1				
	2022	KLEIN SANDFONTEIN NEVAEH		5	5	28	48	22	65	48	64	49	52	54	59					
BOELA DOLLAR		MES CHAMP	8.86	106	106	103	116	118	100	114	117	105	112	121	119	8 2				
	2023	WOEKER BBD DINA		5	5	20	49	21	67	48	65	50	52	55	60					
PIONEER MAUI		MIDDELPOS BBD BRUCE ALMIGHTY	7.14	118	100	104	105	121	129	134	122	121	114	115	124	12 2				
	2024	MALAKAS HONEY		5	5	7	47	20	62	46	61	48	50	53	57					

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	
ZKR CIRILLA	2021	CBR BLACK MAGIC	6.16	92	91		94	94	105	82	85	79	92	104	91	19	3	2			
		GATEKEEPER NADIA JAFTER		5	5		49	19	66	48	65	50	52	55	60			2			
MALAKAS HONEY	2021	ELEVATION GUNNER	5.80	109	93	103	115	128	114	139	129	128	115	104	125	13	2	9			2
		DELATRO CARA		5	5	17	52	22	69	51	68	53	55	58	64			6			1
KLEIN SANDFONTEIN CARDI	2022	KLEIN SANDFONTEIN MAJOR TOM	12.92	108	95	114	98	113	104	119	109	116	105	107	110	6	1				
		KLEIN SANDFONTEIN PICTURE PERFECT		5	5	28	34	5	46	34	46	35	37	39	43						
MASTERMINDS AMBER	2023	HORIZON CONG	22.31	103	102	97		111	120	109	103	104	98	107	108	13	4				
		MASTERMINDS BELLA		5	5	5		5	36	5	35	8	16	21	29						

