

Boerboel Genetic Evaluation

SA Stud Book
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MEV. S. OOSTHUIZEN

POSBUS 175

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ALBERTINIA

6695



Kennel Number: 723985



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.

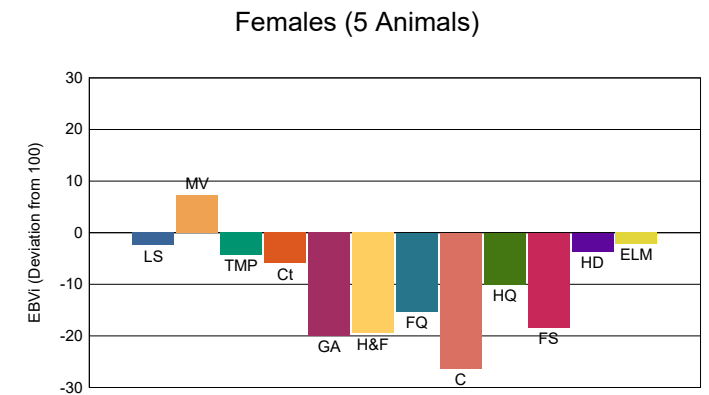
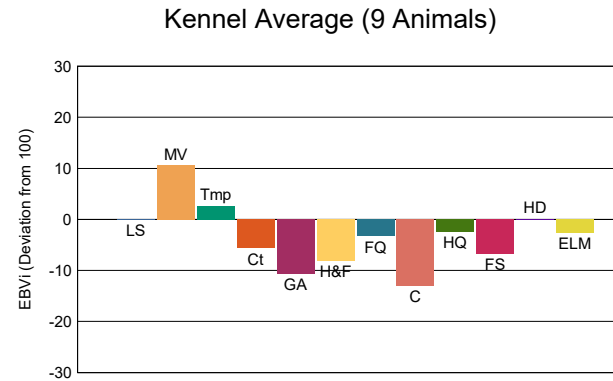
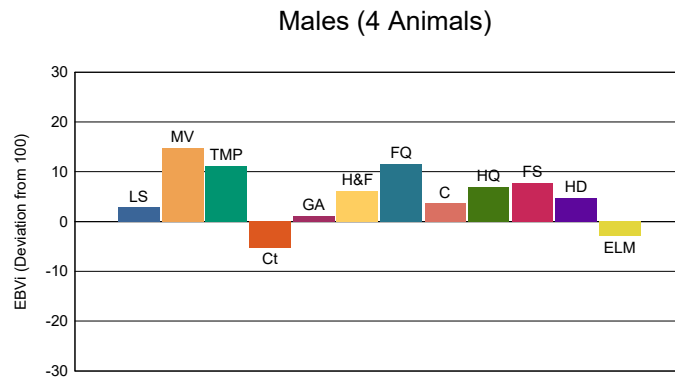
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	103	98
Movement (Mv)	111	115	107
Temperament (Tmp)	103	111	96
Coat (Ct)	94	95	94
General Appearance	89	101	80
Head & Face (H&F)	92	106	81
Front Quarter (FQ)	97	112	85
Centre (C)	87	104	74
Hind Quarter (HQ)	98	107	90
Final Score (FS)	93	108	82
Hip Health (HH)	100	105	96
Elbow Health (ELM)	97	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.

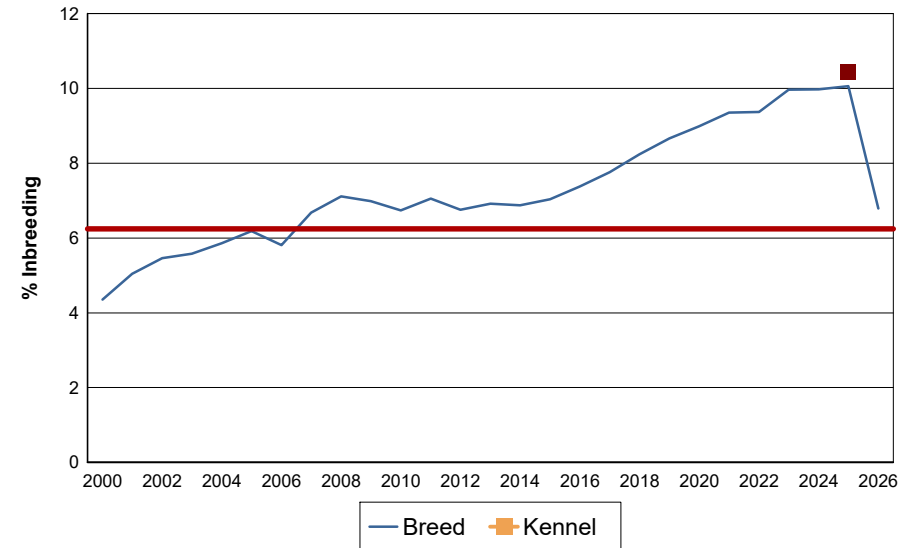
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	9	49007	4	25141	5	23857	6	3371	8	6287
Average Inbreeding	8.59	8.49	8.19	8.46	8.91	8.53	7.17	8.01	8.60	8.00
Number inbred	9	48727	4	24990	5	23728	6	24990	8	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	2	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	
KLEIN WITWAL BBD DUSTER		KLEIN WITWAL BBD UNO	5.48	102	86	92	96	113	87	96	105	122	109	109	108	12	4	8	2	2	1
	2021	TAILORED CYCLONE		5	5	22	56	29	72	54	71	57	59	62	67			5			1
ARMANDUS TRUMP		DELATRO HOGAN	5.71	106	99	107	139	116	93	107	109	112	112	115	115	23	3	2			
	2022	SUID KAAP MONICA		5	5	5	46	11	65	46	64	47	50	53	59			2			
MES CLAAS		MES ZUKO	11.11	110	104	109	103	114	107	114	120	120	106	107	116						
	2024	KLEIN SANDFONTEIN CINNABAR		5	5	5	28	5	44	27	43	29	31	34	39						
FEYTA KING ARTHUR		ARMANDUS TRUMP	10.44	101	99	104	121	101	92	88	90	93	88	98	93						
	2025	SUID KAAP AFRICAN QUEEN		5	5	5	14	5	38	12	36	16	20	24	31						

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
SUID KAAP MIA	2016	SUID KAAP AFRIKA	2.07	87	96	89	95	95	104	82	67	81	65	88	74	42	6	9 8		4 1
		ADMIRALS SUID KAAP PATRYS		5	5	49	58	30	74	57	73	59	61	64	69					
SUID KAAP AYAH	2018	SUID KAAP AFRIKA	9.02	98	102	137	108	92	88	69	87	87	70	82	80	21	2	4 4		2 1
		SUID KAAP TOUCH OF CLASS		5	5	27	47	11	63	46	62	48	50	53	58					
SUID KAAP WILDFIRE	2018	SUID KAAP OMEGA	3.61	100	92	57	109	104	95	91	88	89	83	103	92	13	3	1 1		
		SUID KAAP CLOVER		5	5	42	48	24	65	47	63	49	51	54	59					
SUID KAAP AFRICAN QUEEN	2022	SUID KAAP AFRIKA	19.40	96	100	101	103	87	92	70	71	74	64	80	70	6	1			
		SUID KAAP STARLIGHT		5	5	5	36	5	60	35	58	37	41	45	52					
FEYTA AYL A	2025	ARMANDUS TRUMP	10.44	101	99	104	121	101	92	88	90	93	88	98	93					
		SUID KAAP AFRICAN QUEEN		5	5	5	14	5	38	12	36	16	20	24	31					

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	
SUID KAAP AFRIKA		JANIEKA VINCE	2.46	91	99	108	107	94	94	78	72	79	70	81	74	51	7	11			5
	2014	ASTHOR LYLA		5	5	27	59	30	74	58	73	60	62	65	70						1
SUID KAAP OMEGA		GROENBERG BBD RAMBO	10.11	113	88	71	127	128	81	104	100	105	108	124	112	45	8	8			8
	2017	SUID KAAP LEZA		18	28	49	64	45	77	64	76	65	66	68	72						1
KLEIN WITWAL BBD UNO		MES RUBENSTEIN	4.80	101	70	107	114	129	109	111	104	122	116	120	118	46	12	20			15
	2017	SA SUPERIOR PEPSI		5	20	49	72	49	83	72	82	72	74	76	79						4
DELATRO HOGAN		DELATRO X'WINSLO	14.44	106	104	98	141	115	99	113	117	118	119	112	120	28	4	11			4
	2019	RAINAISANCE JENNIFER LOPEZ		5	5	12	56	23	71	55	70	56	59	61	66						3
ARMANDUS TRUMP		DELATRO HOGAN	5.71	106	99	107	139	116	93	107	109	112	112	115	115	23	3	2			
	2022	SUID KAAP MONICA		5	5	5	46	11	65	46	64	47	50	53	59						
MES ZUKO		MES TUNGSTEN	5.52	106	106	102	93	117	106	118	138	126	112	102	122	8	2				
	2023	HEYLEN BOERBOELE AZURA		5	5	5	48	17	66	47	65	49	51	54	60						

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			
ADMIRALS SUID KAAP PATRYS		GIANT TJOKKA	2.40	84	94	82	90	99	109	86	75	89	72	106	85	43	6	11	2	1	4
	2011	ROBYN BBD NEMO		5	5	43	57	29	74	56	73	58	60	63	68						
SUID KAAP CLOVER		JANIEKA VINCE	1.80	88	96	66	92	83	108	75	77	79	59	82	74	7	4	5			3
	2015	ADMIRALS SUID KAAP PATRYS		5	5	47	55	28	72	54	71	56	58	61	66						
SUID KAAP TOUCH OF CLASS		MIDDELPOS BBD OSCAR 1	3.46	106	106	115	94	87	102	75	95	93	72	84	85	16	2	1			3
	2017	SUID KAAP CLOVER		5	5	39	56	32	71	56	70	57	59	61	66						
SUID KAAP STARLIGHT		JANIEKA VINCE	14.55	101	101	94	89	83	105	81	86	83	66	76	76	11	2	2			1
	2017	SUID KAAP STARDUST		5	5	27	47	5	67	46	66	48	51	54	60						
TAILORED CYCLONE		KLEIN WITWAL BBD TUSK	4.57	103	102	77	106	98	66	88	97	109	96	100	95	9	3	5			2
	2018	TAILORED FOXY		5	5	33	50	22	66	49	65	51	53	55	60						
SUID KAAP MONICA		SUID KAAP OMEGA	8.58	106	95	115	125	109	93	86	96	96	89	107	99	19	3	3			2
	2020	SUID KAAP AYAH		5	5	27	51	20	69	50	68	52	54	57	63						
SUID KAAP AFRICAN QUEEN		SUID KAAP AFRIKA	19.40	96	100	101	103	87	92	70	71	74	64	80	70	6	1				
	2022	SUID KAAP STARLIGHT		5	5	5	36	5	60	35	58	37	41	45	52						
KLEIN SANDFONTEIN CINNABAR		KLEIN SANDFONTEIN LOUIS-LOUIS	14.06	115	101	116	112	111	108	110	103	113	101	111	109	4	1				
	2023	MES PERFECT		5	5	34	50	23	66	49	65	50	53	55	60						

