

Boerboel Genetic Evaluation

SA Stud Book
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02 VOUT STREET
CROWNMINES
JOHANNESBURG
2091



Kennel Number: 704592



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.

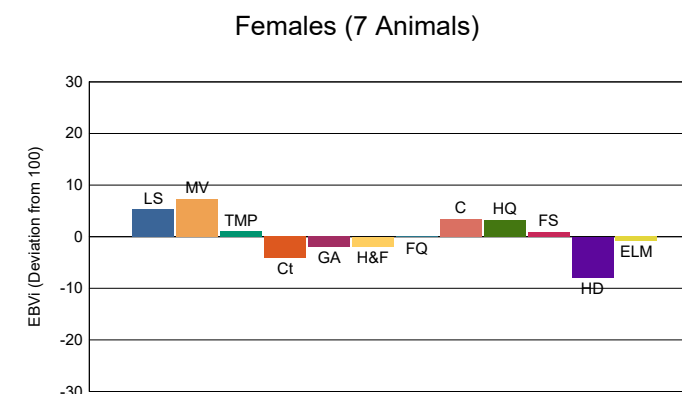
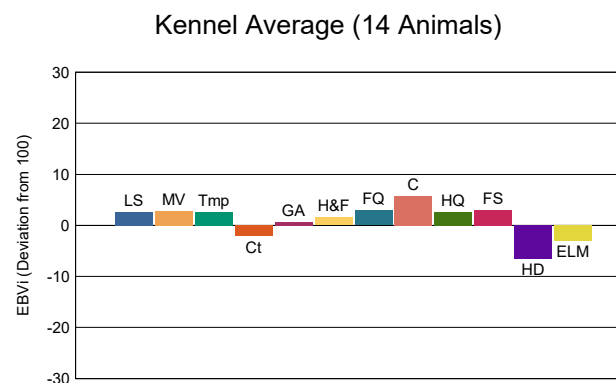
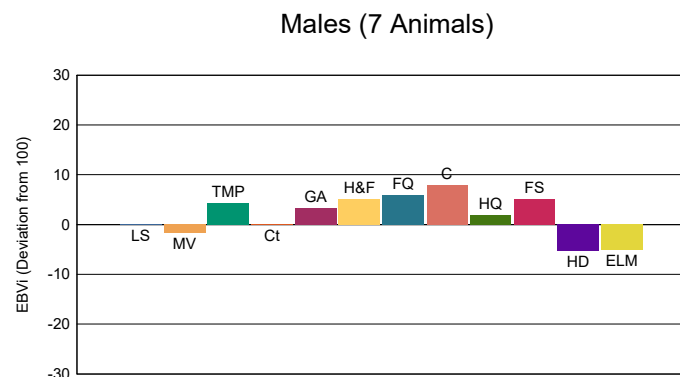
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	100	105
Movement (Mv)	103	98	107
Temperament (Tmp)	103	104	101
Coat (Ct)	98	100	96
General Appearance	101	103	98
Head & Face (H&F)	102	105	98
Front Quarter (FQ)	103	106	100
Centre (C)	106	108	103
Hind Quarter (HQ)	103	102	103
Final Score (FS)	103	105	101
Hip Health (HH)	93	95	92
Elbow Health (ELM)	97	95	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.

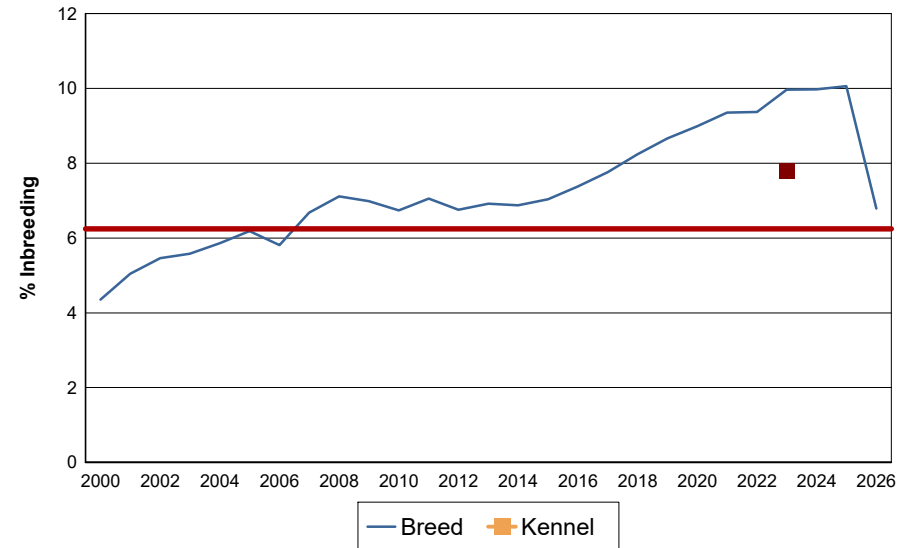
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	14	49007	7	25141	7	23857	9	3371	10	6287
Average Inbreeding	9.05	8.49	8.13	8.46	9.97	8.53	8.33	8.01	10.12	8.00
Number inbred	14	48727	7	24990	7	23728	9	24990	10	23728
Number >6.25% Inbr.	11	30600	6	15537	5	15058	6	15537	6	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	Sire		Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
BYr	Dam	%	Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
MES TUNGSTEN	MES PETER PAN	13.36	95	97	99	101	127	100	124	131	137	129	119	130	12	3	3			1
2020	MES MIEKI		5	5	23	54	26	70	53	69	55	57	59	64			2			1
BOUWER BILLY THE KID	KAMMO BBD BOTTER	6.93	94	107	100	103	96	93	92	103	102	105	112	105						
2020	BODINGTON BOERBOEL GUCCI		5	5	25	38	11	50	37	49	39	40	42	46						
SHAWU EL PRESIDENTE	MARVILLOSO HUSTLEMAN	5.85	98	82	104	91	105	108	105	103	104	106	94	102	7	2				
2021	MIDDELPOS BBD ALEXA		5	5	24	45	16	62	45	61	46	48	51	56						
SLOW POISON MAKHULU BAAS	SHAWU EL PRESIDENTE	8.38	89	92	97	95	96	93	99	95	94	100	90	93						
2023	MES LERATO		5	5	5	23	5	37	22	36	24	26	29	33						
SLOW POISON NEVER DIE	SHAWU EL PRESIDENTE	8.38	89	92	97	95	96	93	99	95	94	100	90	93						
2023	MES LERATO		5	5	5	23	5	37	22	36	24	26	29	33						
SLOW POISON ONE MUST DIE	SHAWU EL PRESIDENTE	7.00	98	97	101	102	105	106	102	105	106	108	105	107						
2023	HERBERG IRIS		5	5	5	22	5	36	22	35	23	25	28	32						
SLOW POISON COUP D ETAT	SHAWU EL PRESIDENTE	7.00	98	97	101	102	105	106	102	105	106	108	105	107						
2023	HERBERG IRIS		5	5	5	22	5	36	22	35	23	25	28	32						

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	
BODINGTON BOERBOEL MERCURY	2021	BODINGTON BOERBOEL THE HULK	10.04	86	91	119	91	95	63	102	100	95	102	111	98						
		BODINGTON BOERBOEL PRINCESS TIGER LILY		5	5	13	46	11	63	45	62	47	49	52	57						
MES LERATO	2021	MES JOHN SNOW	16.94	80	102	91	99	88	79	92	86	83	94	86	84	4	1				
		MES TAMIKO		5	5	27	40	5	52	39	52	40	42	45	48						
HERBERG IRIS	2021	KAMMO BBD BROLLOKS	6.23	98	112	99	114	105	103	99	106	107	110	116	111	3	1				
		MES MIA II		5	5	32	37	14	48	37	48	38	40	41	45						
SAFIKA LUCIA	2022	KYLANO TAXMAN	5.93	103	105	106	123	111	121	102	89	107	102	104	103						
		HEAVY WEIGHTS ZANDA		5	5	13	46	12	64	45	63	47	49	52	58						
BOUWER ROXANNE	2022	BOUWER JOHNNY COOL	15.29	89	95	125	127	107	106	89	107	108	108	113	111						
		BOUWER CRYSTAL		5	5	5	45	5	63	44	62	46	49	52	57						
SLOW POISON GENESIS	2023	SHAWU EL PRESIDENTE	8.38	89	92	97	95	96	93	99	95	94	100	90	93						
		MES LERATO		5	5	5	23	5	37	22	36	24	26	29	33						
SLOW POISON SCARLET	2023	SHAWU EL PRESIDENTE	7.00	98	97	101	102	105	106	102	105	106	108	105	107						
		HERBERG IRIS		5	5	5	22	5	36	22	35	23	25	28	32						

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	
BODINGTON BOERBOEL THE HULK		CABARET THOR	6.46	84	91	140	102	100	72	89	92	106	101	117	99	52	9	11			6
	2017	KLEIN SANDFONTEIN SISKI		5	5	44	63	37	77	62	76	64	66	68	73						2
MES JOHN SNOW		MES WEBSTER	18.58	77	104	108	103	88	106	94	91	89	108	91	94	19	4	9			6
	2017	MES ASJAS		5	5	35	61	33	76	60	75	62	64	66	71						1
KAMMO BBD BROLLOKS		SPITSVUUR BBD TOKARA DRIFTER	5.80	86	118	92	118	90	127	95	93	95	112	113	106	33	3	3			2
	2017	KAMMO BBD FIELA		12	17	40	58	37	71	57	70	59	60	62	67						1
MARVILLOSO HUSTLEMAN		CABARET ALLYCAT	4.41	92	95	129	90	111	87	101	117	111	110	97	108	50	7	13			8
	2018	MIDDELPOS BBD STELLA		5	5	40	65	40	79	64	78	66	68	70	74						5
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						1
KAMMO BBD BOTTER		TOKARA ELDORADO PABLO	11.85	90	117	88	79	93	73	98	93	92	110	108	95	37	5	2			1
	2019	TARGUS OLLA		5	5	24	49	25	65	49	64	50	52	55	60						1
MES PETER PAN		ELEVATION OTTO	9.26	94	103	94	103	118	103	115	120	120	123	123	124	44	7	12			8
	2019	MES FIELA SUSSA		5	19	38	64	41	77	64	77	65	67	69	73						2
SHAWU EL PRESIDENTE		MARVILLOSO HUSTLEMAN	5.85	98	82	104	91	105	108	105	103	104	106	94	102	7	2				
	2021	MIDDELPOS BBD ALEXA		5	5	24	45	16	62	45	61	46	48	51	56						
BOUWER JOHNNY COOL		BOSTU DADDY COOL	6.30	79	92	119	119	105	106	100	111	99	105	111	111	51	5	14			4
	2021	BODINGTON BOERBOEL GUCCI		5	23	39	63	40	75	61	74	63	65	67	71						2

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	
BODINGTON BOERBOEL GUCCI	2016	KLEIN SANDFONTEIN BULLET	5.84	97	96	111	127	100	114	86	113	111	101	117	114	46	7	13			7
		BODINGTON BOERBOEL DAISY DUKE		5	5	60	68	44	81	67	80	68	70	72	77			13			1
MIDDELPOS BBD ALEXA	2017	SA SUPERIOR BOGGOM	5.87	105	70	78	104	114	118	118	101	108	118	105	110	16	3	3			1
		SHADROCK MOCCA		5	5	49	47	20	59	46	59	47	49	51	55			3			1
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
MES MIEKI	2018	MES ARNOLD 1	10.26	97	90	104	105	115	109	122	107	122	115	112	115	10	2	8			4
		MES MIKA		5	18	51	64	41	78	63	77	65	67	69	73			7			1
MES MIA II	2018	MES MAC GYVER	7.02	111	107	103	110	120	80	104	119	119	108	118	116	25	2	3	1	1	4
		MES LINDIE I		5	18	50	59	37	70	58	69	59	61	63	66			3			1
MES TAMIKO	2019	MES ASKAM	25.85	84	99	78	94	88	52	90	82	77	81	80	74	8	3	5			4
		MES VEENUS		5	5	50	58	32	73	58	72	59	61	64	68			4			1
BODINGTON BOERBOEL PRINCESS TIGER LILY	2019	KAMMO BBD HOGUE	5.80	89	90	97	97	101	75	115	109	96	108	106	104	5	1	3			1
		BODINGTON BOERBOEL ANASTASIA		5	5	33	53	25	70	52	69	53	56	59	64			3			1
BOUWER CRYSTAL	2021	BOUWER PANTHER	8.69	99	99	131	123	104	89	72	85	105	103	110	98	9	1	2			1
		BODINGTON BOERBOEL ELECTRA		5	5	30	54	24	70	53	69	54	57	59	65			2			1
MES LERATO	2021	MES JOHN SNOW	16.94	80	102	91	99	88	79	92	86	83	94	86	84	4	1				
		MES TAMIKO		5	5	27	40	5	52	39	52	40	42	45	48						
HERBERG IRIS	2021	KAMMO BBD BROLLOKS	6.23	98	112	99	114	105	103	99	106	107	110	116	111	3	1				
		MES MIA II		5	5	32	37	14	48	37	48	38	40	41	45						

