

Boerboel Genetic Evaluation

SA Stud Book
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THEESCOMBE
PORT ELIZABETH
6001



Kennel Number: 728685



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.

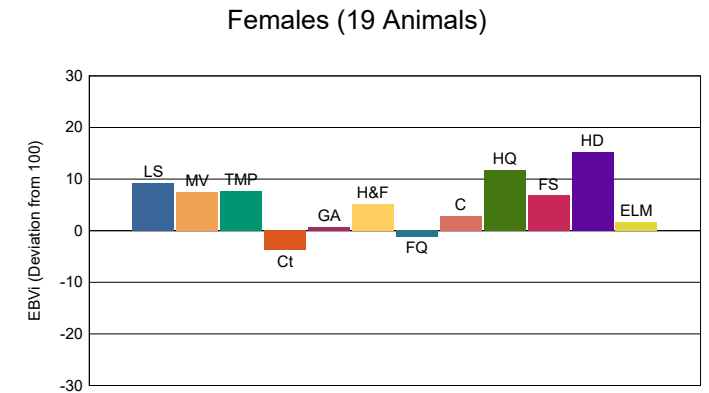
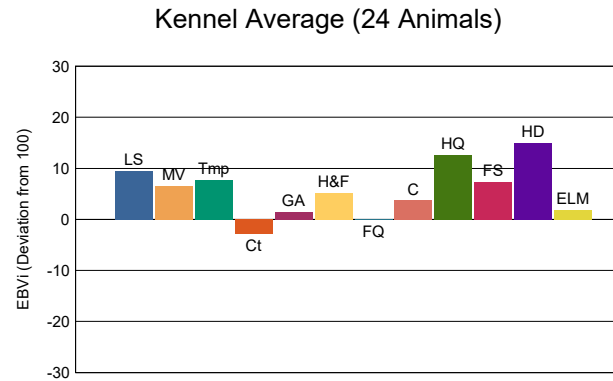
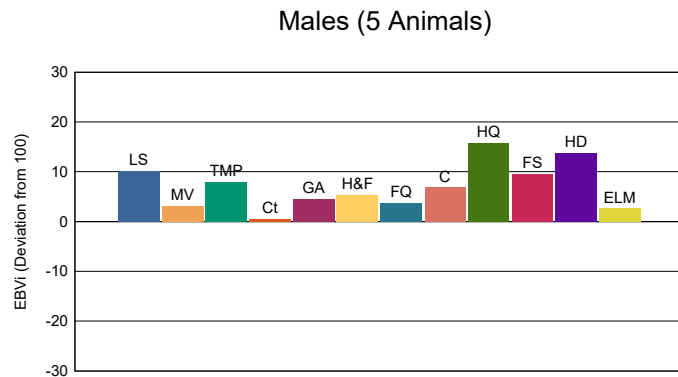
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	109	110	109
Movement (Mv)	107	103	108
Temperament (Tmp)	108	108	108
Coat (Ct)	97	101	96
General Appearance	101	105	101
Head & Face (H&F)	105	105	105
Front Quarter (FQ)	100	104	99
Centre (C)	104	107	103
Hind Quarter (HQ)	113	116	112
Final Score (FS)	107	110	107
Hip Health (HH)	115	114	115
Elbow Health (ELM)	102	103	102

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.

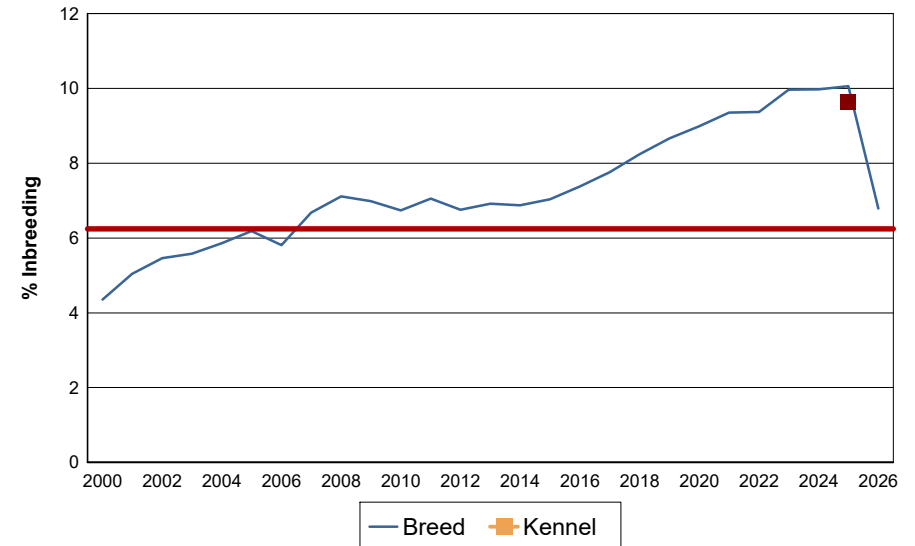
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	24	49007	5	25141	19	23857	11	3371	9	6287
Average Inbreeding	8.63	8.49	10.28	8.46	8.20	8.53	9.17	8.01	8.27	8.00
Number inbred	24	48727	5	24990	19	23728	10	24990	9	23728
Number >6.25% Inbr.	15	30600	4	15537	11	15058	6	15537	7	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	
LA BOELA REMINGTON		MEGAZONE DEXTER	16.04	122	107	100	112	119	104	120	106	116	118	128	119	31	6	6			2
	2020	KAMMO BBD SEIFER		5	5	24	51	21	68	50	67	51	54	57	62			6			1
LA BOELA UBER		LA BOELA ROOSTER	14.29	92	88	136	88	104	97	102	116	108	107	118	113	12	3				
	2021	LA BOELA VENUS II		5	5	12	46	9	63	45	62	47	49	52	57						
LA BOELA AROS		DELATRO UWE	6.99	113	114	90	110	109	109	108	105	104	110	115	111						
	2025	LA BOELA GEETAH		5	6	23	30	5	41	30	40	31	32	34	37						
LA BOELA BRUTUS		TYGERHOEK BBD BRUTUS	1.78	126	103	98	100	93	96	79	94	81	89	92	90						
	2025	LA BOELA FERRE		13	10	33	34	11	45	33	45	34	36	38	41						
LA BOELA GUS		LA BOELA REMINGTON	12.31	116	101	126	106	115	97			110	110								
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						

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	
LA BOELA RAVEN	2019	MES MAC GYVER	6.26	110	104	134	116	113	84	103	127	108	108	128	122	28	4	5			2
		LA BOELA CAPRI		26	44	50	55	34	68	54	67	55	57	59	63			3			
LA BOELA GEETAH	2020	LA BOELA DODGE	9.15	112	118	91	100	110	111	112	109	108	113	122	116	17	4	2			1
		KAMMO BBD LONDON		22	43	47	38	15	51	38	50	39	41	43	47			2			
LA BOELA GIGI	2023	MIDDELPOS BBD MAXIMUS I	5.73	126	107	102	121	104	95	101	107	96	102	112	108						
		LA BOELA RAVEN		10	25	33	49	27	63	48	62	49	51	53	58						
LA BOELA FERRE	2023	MIDDELPOS BBD MAXIMUS I	5.73	126	107	97	124	99	83	95	102	90	98	109	101	12	1				
		LA BOELA RAVEN		10	25	38	49	27	63	48	62	49	51	53	58						
LA BOELA ROSE	2023	WOEKER BBD MATEKWA	10.11	110	96	152	99	111	89	106	106	104	103	123	110	9	1				
		LA BOELA VENUS II		5	5	24	48	19	65	47	63	49	51	54	59						
WOEKER BBD KOATA	2023	WOEKER BBD BOESMAN	19.80	114	100	90	116	105	89	110	99	96	103	104	102						
		LOMBARD SUPERIOR PEANUT		5	5	5	43	5	62	42	61	44	47	50	56						
LA BOELA ROUGE	2024	LA BOELA REMINGTON	10.73	116	106	117	118	124	96	115	119	116	117	138	127						
		LA BOELA RAVEN		5	5	13	39	5	57	38	56	40	42	45	51						
LA BOELA AVA	2025	DELATRO UWE	6.99	113	114	90	110	109	109	108	105	104	110	115	111						
		LA BOELA GEETAH		5	6	23	30	5	41	30	40	31	32	34	37						
LA BOELA QUINN	2025	TYGERHOEK BBD BRUTUS	1.78	126	103	98	100	93	96	79	94	81	89	92	90						
		LA BOELA FERRE		13	10	33	34	11	45	33	45	34	36	38	41						
LA BOELA VARA	2025	TYGERHOEK BBD BRUTUS	1.78	126	103	98	100	93	96	79	94	81	89	92	90						
		LA BOELA FERRE		13	10	33	34	11	45	33	45	34	36	38	41						
LA BOELA BETS	2025	TYGERHOEK BBD BRUTUS	1.78	126	103	98	100	93	96	79	94	81	89	92	90						
		LA BOELA FERRE		13	10	33	34	11	45	33	45	34	36	38	41						

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	
Name		Sire	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	with
	BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			litters
LA BOELA JESSICA		LA BOELA REMINGTON	12.31	116	101	126	106	115	97		106	110	110	126	115						
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						
LA BOELA 280939		LA BOELA REMINGTON	12.31	116	101	126	106	115	97		106	110	110	126	115						
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						
LA BOELA CARACAO		LA BOELA REMINGTON	12.31	116	101	126	106	115	97		106	110	110	126	115						
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						
LA BOELA TRIXIE		LA BOELA REMINGTON	12.31	116	101	126	106	115	97		106	110	110	126	115						
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						
LA BOELA 280934		LA BOELA REMINGTON	12.31	116	101	126	106	115	97		106	110	110	126	115						
	2025	LA BOELA ROSE		5	5	5	27	5	42		41	28	30	33	37						
LA BOELA TOTO-RIA JAGER		GRASLAND GBT RONT0	4.80	101	87	94	104	107	101		104	89	94	90	97						
	2025	LA BOELA FERRE		10	5	35	39	21	49		48	40	41	43	45						
LA BOELA KOA		GRASLAND GBT RONT0	4.80	101	87	94	104	107	101		104	89	94	90	97						
	2025	LA BOELA FERRE		10	5	35	39	21	49		48	40	41	43	45						
LA BOELA KAI		GRASLAND GBT RONT0	4.80	101	87	94	104	107	101		104	89	94	90	97						
	2025	LA BOELA FERRE		10	5	35	39	21	49		48	40	41	43	45						

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
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	with litters	
TYGERHOEK BBD BRUTUS		GRASLAND GBT ROCKY	0.00	126	100	100	76	88	108	63	86	71	80	75	78	83	12	12	9	4	24
	2000	SELBOURNE BELLA		47	31	64	57	35	71	57	70	58	60	62	67						
GRASLAND GBT RONTO		GRASLAND GBT BRONTO	1.93	76	68	91	84	115	119	78	107	87	90	70	93	133	23	18	4	2	33
	2004	EL SHADAI BBD MARMITE		48	31	68	70	51	80	70	79	71	72	74	77						
MIDDELPOS BBD MAXIMUS I		MIDDELPOS BBD BOEL I	9.57	142	110	70	119	89	99	91	87	82	96	94	91	147	21	27	8	4	23
	2009	MIDDELPOS BBD MAXI I			47	53	59	75	54	84	74	84	75	77	79						
DELATRO UWE		DELATRO KARDO	5.76	113	110	89	120	108	106	103	101	101	108	107	107	32	7	7	1	1	4
	2014	MIDDELPOS BBD KALAHARI		5	13	38	59	37	71	59	70	60	62	63	67						
MES MAC GYVER		AFRIKA MALABU	5.66	120	118	132	122	112	84	88	125	106	98	120	116	144	22	48	6	6	40
	2014	ZUBERI-ZURI DIDI		35	52	63	80	59	89	80	89	81	82	84	87						
LA BOELA DODGE		GROENBERG BBD RAMBO	4.86	103	99	106	97	113	105	115	115	113	117	126	120	42	6	7	2	2	5
	2016	MES WILLOW		40	54	50	61	45	72	61	71	62	63	65	68						
MEGAZONE DEXTER		GROENBERG BBD RAMBO	17.23	125	96	94	127	128	108	129	112	123	126	131	128	8	1	2	1	1	3
	2018	MEGAZONE BAILEY			21	36	41	58	40	71	57	70	58	60	62						
LA BOELA ROOSTER		MES FELIX BOETA	16.23	73	71	117	98	105	105	108	117	116	107	113	114	37	5	7	2	2	7
	2019	LA BOELA ZUKIE			5	26	35	62	37	76	61	75	62	64	67						
LA BOELA REMINGTON		MEGAZONE DEXTER	16.04	122	107	100	112	119	104	120	106	116	118	128	119	31	6	6			2
	2020	KAMMO BBD SEIFER			5	5	24	51	21	68	50	67	51	54	57						
WOEKER BBD BOESMAN		WOEKER BBD WOEKER	13.17	116	103	82	127	107	111	107	101	95	102	114	109	25	3	2			
	2020	MIDDELPOS BBD FIELA 3			5	5	33	58	34	71	56	71	58	60	62						
WOEKER BBD MATEKWA		LOMBARD SUPERIOR HAMMILTON	10.45	110	88	133	104	120	84	116	110	111	97	115	110	91	12	35			9
	2021	WOEKER BBD STELLA			5	5	24	64	36	79	64	79	65	68	70						

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	
	BYr	Dam	%	Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
LA BOELA CAPRI		GROENBERG BBD RAMBO	4.86	103	94	131	100	111	84	112	106	103	112	127	112	14	1	2	2	2	
	2016	MES WILLOW		38	52	53	56	42	64	55	64	56	58	59	62			2	2	1	
KAMMO BBD LONDON		KAMMO BBD LOFTY	8.88	114	125	75	103	105	116	105	106	104	110	116	112	9	2	4	2	3	
	2017	TARGUS TIMU		5	19	46	49	25	64	49	63	50	52	55	59			4	2	1	
KAMMO BBD SEIFER		TARGUS MAKAROV	12.87	119	118	101	100	108	102	108	92	106	111	121	107	25	4	6	1	6	
	2017	LA BOELA KAMMO ZURI		5	13	45	58	31	73	57	72	58	61	63	68			6	1	1	
LA BOELA VENUS II		MES MAC GYVER	6.26	110	104	156	99	106	77	95	103	96	106	131	109	33	4	8		5	
	2019	LA BOELA CAPRI		26	44	49	58	36	72	57	72	59	61	63	68			6		1	
LA BOELA RAVEN		MES MAC GYVER	6.26	110	104	134	116	113	84	103	127	108	108	128	122	28	4	5		2	
	2019	LA BOELA CAPRI		26	44	50	55	34	68	54	67	55	57	59	63			3		1	
LA BOELA GEETAH		LA BOELA DODGE	9.15	112	118	91	100	110	111	112	109	108	113	122	116	17	4	2		1	
	2020	KAMMO BBD LONDON		22	43	47	38	15	51	38	50	39	41	43	47			2		1	
LOMBARD SUPERIOR PEANUT		WOEKER BBD JAPIE	10.32	113	97	97	108	105	83	114	118	106	106	96	108	5	1	1			
	2021	LOMBARD SUPERIOR ZARAH		5	5	35	53	28	69	52	68	54	56	59	63			1			
LA BOELA FERRE		MIDDELPOS BBD MAXIMUS I	5.73	126	107	97	124	99	83	95	102	90	98	109	101	12	1				
	2023	LA BOELA RAVEN		10	25	38	49	27	63	48	62	49	51	53	58						
LA BOELA ROSE		WOEKER BBD MATEKWA	10.11	110	96	152	99	111	89	106	106	104	103	123	110	9	1				
	2023	LA BOELA VENUS II		5	5	24	48	19	65	47	63	49	51	54	59						

