

Boerboel Genetic Evaluation

SA Stud Book
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MRS J.F. FERRAZ DE AZEVEDO

AVENIDA JOSE MARIANO DE LIMA 119 APT 1701
UNIVERSITARIO
CARUARU
BRAZIL



Kennel Number: 717423



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.

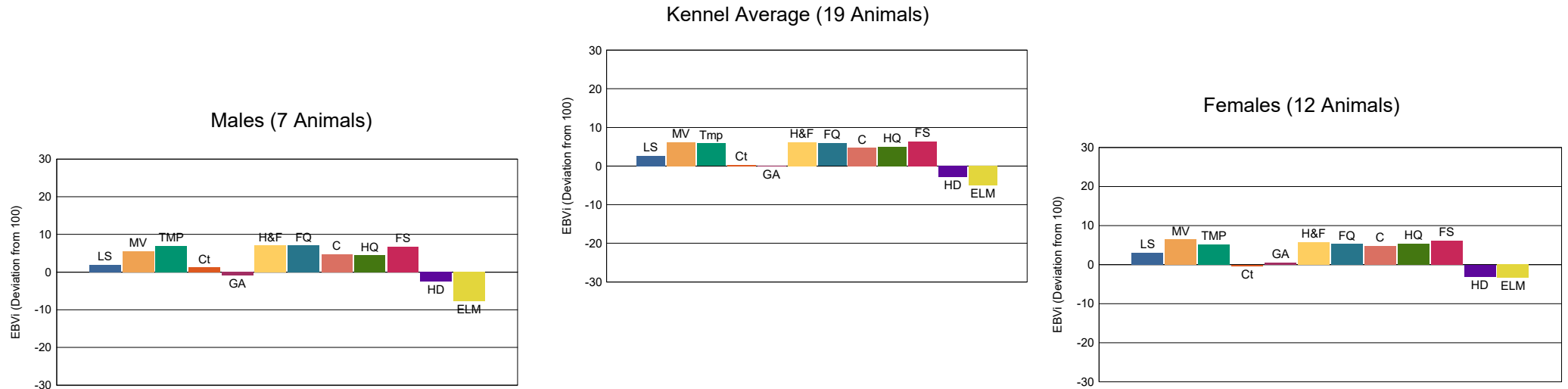
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	102	103
Movement (Mv)	106	106	106
Temperament (Tmp)	106	107	105
Coat (Ct)	100	101	100
General Appearance	100	99	100
Head & Face (H&F)	106	107	106
Front Quarter (FQ)	106	107	105
Centre (C)	105	105	105
Hind Quarter (HQ)	105	104	105
Final Score (FS)	106	107	106
Hip Health (HH)	97	98	97
Elbow Health (ELM)	95	92	97

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.

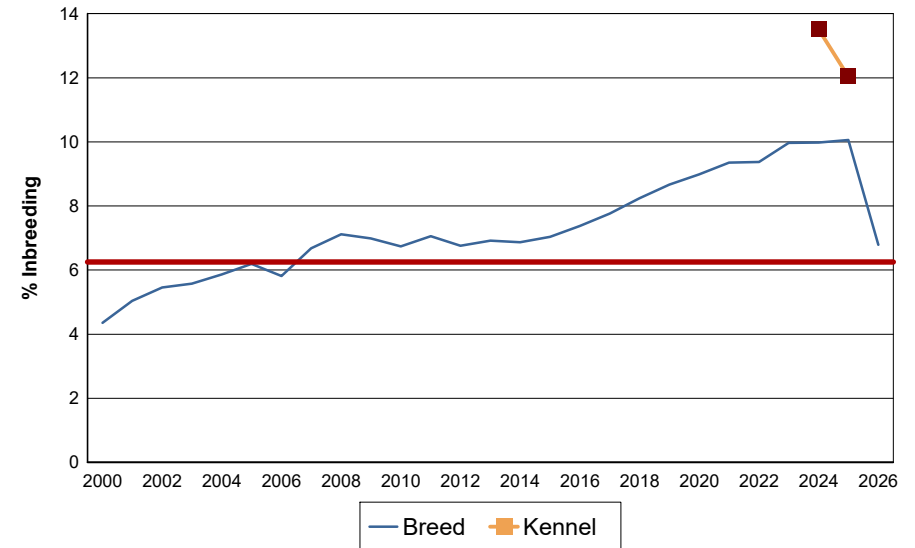
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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	19	49007	7	25141	12	23857	10	3371	10	6287
Average Inbreeding	12.58	8.49	12.24	8.46	12.78	8.53	9.83	8.01	12.43	8.00
Number inbred	19	48727	7	24990	12	23728	10	24990	10	23728
Number >6.25% Inbr.	19	30600	7	15537	12	15058	6	15537	9	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	
MES THABO		MES JOHN SNOW	13.68	81	102	84	103	90	94	96	94	90	103	89	93	5	2				
	2021	MES ASKARI		5	5	10	49	19	66	49	65	50	53	55	60						
MIDDELPOS BBD LOFTY 2		KLEIN WITWAL BBD UNO	6.65	109	95	98	93	110	104	90	112	115	103	109	110						
	2022	MIDDELPOS BBD ANNA		5	5	23	48	23	64	48	63	49	51	54	59						
AFRIKA RAGNAR 3		MES RUBENSTEIN	14.24	113	71	120	109	125	105	110	123	120	103	115	120	5	1				
	2022	LOMBARD SUPERIOR AFRIKA 4X4		5	20	36	55	35	68	54	67	56	57	59	63						
SPIOVANTI CONGO		MES THABO	13.51	87	102	94	107	97	99	96	98	99	106	98	100						
	2024	MES NIA		5	5	5	26	5	41	25	40	27	29	32	37						
SPIOVANTI BRUTUS		MES THABO	13.51	87	102	94	107	97	99	96	98	99	106	98	100						
	2024	MES NIA		5	5	5	26	5	41	25	40	27	29	32	37						
SPIOVANTI FALCON		AFRIKA RAGNAR 3	12.04	103	86	112	110	115	104	103	112	114	106	111	113						
	2025	MES NIA		5	5	5	30	5	43	29	42	31	32	35	39						
SPIOVANTI ARGUS		AFRIKA RAGNAR 3	12.04	103	86	112	110	115	104	103	112	114	106	111	113						
	2025	MES NIA		5	5	5	30	5	43	29	42	31	32	35	39						

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	
MES TRISHA	2021	MES JOHN SNOW	16.94	80	102	93	101	86	75	94	84	83	96	83	83						
		MES TAMIKO		5	5	22	48	13	65	47	64	49	51	54	59						
MIDDELPOS BBD LADI	2022	MIDDELPOS BBD SAMPIE	8.81	116	112	98	93	102	97	94	117	111	101	106	109						
		MIDDELPOS BBD LEXI I		5	5	22	49	23	66	49	65	50	52	55	60						
MES NIA	2022	MES DEXTER	14.28	93	102	104	111	105	103	96	102	108	109	107	107	10	2				
		MES KAINGO ZION		5	5	16	48	15	65	47	64	49	51	54	59						
AFRIKA ASH I	2023	AFRIKA SAKABULA	15.09	117	92	94	110	115	95	95	104	109	101	120	110						
		AFRIKA ASHUKA		5	17	20	50	23	65	49	64	51	53	55	60						
AFRIKA DANKA	2023	AFRIKA BUNDO 6	13.88	88	92	107	116	117	103	109	115	112	107	115	116						
		AFRIKA MIMA		5	16	20	45	21	55	44	54	45	47	48	52						
KLEIN SANDFONTEIN AMORA	2024	FONT BOERBOELS MENELIK	7.69	101	96	123	96	100	114	120	117	103	108	105	112						
		KLEIN SANDFONTEIN BAMBAM		5	5	7	35	5	49	34	49	36	38	41	45						
SPIOVANTI MELISSA	2024	MES THABO	13.51	87	102	94	107	97	99	96	98	99	106	98	100						
		MES NIA		5	5	5	26	5	41	25	40	27	29	32	37						
SPIOVANTI KATRINA	2024	MES THABO	13.51	87	102	94	107	97	99	96	98	99	106	98	100						
		MES NIA		5	5	5	26	5	41	25	40	27	29	32	37						
SPIOVANTI SABRINA	2024	MES THABO	13.51	87	102	94	107	97	99	96	98	99	106	98	100						
		MES NIA		5	5	5	26	5	41	25	40	27	29	32	37						
SPIOVANTI LAYLA	2025	AFRIKA RAGNAR 3	12.04	103	86	112	110	115	104	103	112	114	106	111	113						
		MES NIA		5	5	5	30	5	43	29	42	31	32	35	39						
SPIOVANTI PANDORA	2025	AFRIKA RAGNAR 3	12.04	103	86	112	110	115	104	103	112	114	106	111	113						
		MES NIA		5	5	5	30	5	43	29	42	31	32	35	39						

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	
SPIOVANTI AYANA		AFRIKA RAGNAR 3	12.04	103	86	112	110	115	104	103	112	114	106	111	113						
	2025	MES NIA		5	5	5	30	5	43	29	42	31	32	35	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	
MES RUBENSTEIN		GROENBERG BBD RAMBO	4.08	111	59	133	122	134	109	99	101	114	104	128	116	314	52	101	21	20	83
	2016	MES LIZE		58	67	73	86	71	92	86	92	87	88	89	90		83				11
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		5				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		17				4
AFRIKA BUNDO 6		AFRIKA RAMBOMAX	11.97	89	84	103	114	107	96	112	110	107	109	109	111	80	14	23	1	1	10
	2018	AFRIKA KONTESSA		39	56	44	72	49	84	72	83	73	75	77	80		11				2
MES DEXTER		MES MASCOT	13.12	97	105	94	107	113	112	112	110	119	120	112	117	38	4	13			4
	2018	MES SERABI		5	20	40	66	43	79	64	78	66	68	70	75		8				1
MIDDELPOS BBD SAMPIE		BREKER MENEER	4.49	103	106	82	94	90	88	87	114	93	87	93	97	33	10	2			1
	2020	WOEKER BBD KATINKA		5	5	30	57	33	71	56	71	57	60	62	66		2				1
AFRIKA SAKABULA		MES RUBENSTEIN	6.23	125	89	103	102	101	98	81	100	102	85	113	100	62	8	30	4	4	6
	2021	AFRIKA SAKABEKKIE		43	57	46	71	49	82	70	82	71	73	75	79		9				1
MES THABO		MES JOHN SNOW	13.68	81	102	84	103	90	94	96	94	90	103	89	93	5	2				
	2021	MES ASKARI		5	5	10	49	19	66	49	65	50	53	55	60						
FONT BOERBOELS MENELIK		BRIEL THE GHOST	7.10	90	102	114	82	96	112	130	129	106	116	94	114	27	5	6			1
	2022	FONT BOERBOELS QUEEN SHEBA		5	5	15	56	27	73	55	72	57	60	62	68		5				1
AFRIKA RAGNAR 3		MES RUBENSTEIN	14.24	113	71	120	109	125	105	110	123	120	103	115	120	5	1				
	2022	LOMBARD SUPERIOR AFRIKA 4X4		5	20	36	55	35	68	54	67	56	57	59	63						

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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
MIDDELPOS BBD LEXI I	2017	AFRIKA LEO 5	18.20	129	118	115	92	113	105	111	120	128	115	113	118	12	3	7			4
		MIDDELPOS BBD DIXIE		14	27	55	64	42	77	63	76	64	66	68	72			5			1
MES ASKARI	2019	MES ASKAM	7.38	85	100	60	101	94	73	92	104	91	99	95	95	6		4			3
		MES MISHATJIE		5	19	39	61	40	74	60	73	61	63	65	70			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
MIDDELPOS BBD ANNA	2019	MIDDELPOS BBD GAMKA	3.18	116	121	89	82	93	98	79	114	105	88	95	99	2	1	2			1
		MIDDELPOS BBD TIEKIE 5		5	5	34	44	22	57	44	56	45	47	49	52			2			1
LOMBARD SUPERIOR AFRIKA 4X4	2019	AFRIKA DANTOR	11.14		83	106	104	113	99	118	133	123	104	100	118	19	3	3			2
		ELEVATION DEKOTA			28	49	59	35	73	58	72	59	61	64	68			3			1
AFRIKA ASHUKA	2020	CABARET SON OF A GUN	9.57	109	94	84	112	124	93	110	106	115	117	124	117	6	1	3	1	1	
		AFRIKA AURORA		16	28	46	54	37	64	54	63	55	56	58	61			3			
AFRIKA MIMA	2020	MES RUBENSTEIN	8.08	86	100	110	117	127	110	107	119	117	105	121	121	8		2			
		AFRIKA MILLA V		21	34	42	60	40	73	59	72	60	62	64	68			2			
MES KAINGO ZION	2020	MES FELIX BOETA	13.91	89	98	118	112	98	95	75	104	102	102	103	102	13	2	2			1
		MES KIELLA		5	5	40	54	27	69	53	68	55	57	59	64			2			1
KLEIN SANDFONTEIN BAMBAM	2022	MES RETIEF	12.68	112	91	132	110	104	116	109	104	100	100	116	110	24	2	2			1
		KLEIN SANDFONTEIN NEVAEH		5	5	41	52	25	69	51	68	53	55	58	63			2			1
MES NIA	2022	MES DEXTER	14.28	93	102	104	111	105	103	96	102	108	109	107	107	10	2				
		MES KAINGO ZION		5	5	16	48	15	65	47	64	49	51	54	59						

