

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 704847



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.

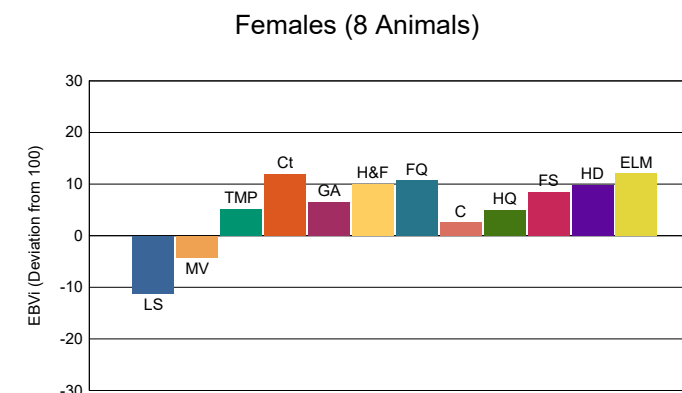
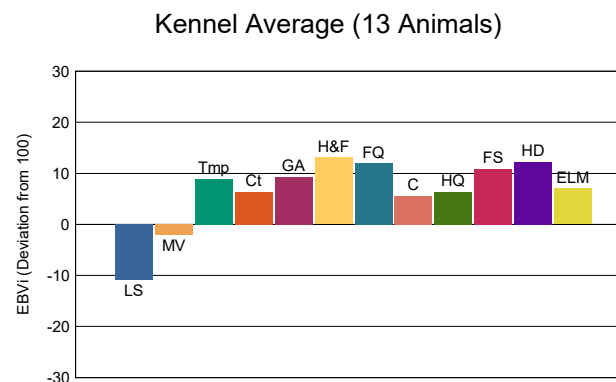
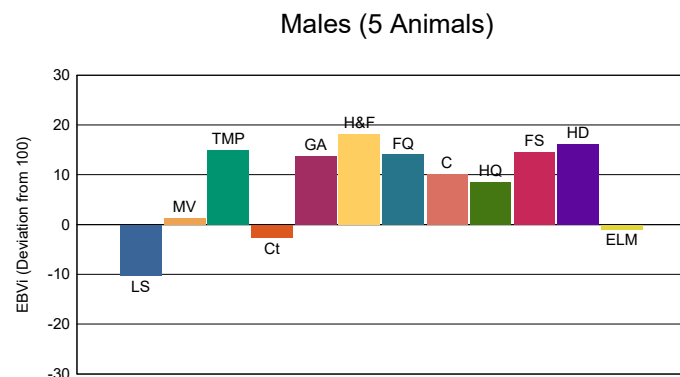
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	89	90	89
Movement (Mv)	98	101	96
Temperament (Tmp)	109	115	105
Coat (Ct)	106	97	112
General Appearance	109	114	107
Head & Face (H&F)	113	118	110
Front Quarter (FQ)	112	114	111
Centre (C)	105	110	103
Hind Quarter (HQ)	106	109	105
Final Score (FS)	111	115	109
Hip Health (HH)	112	116	110
Elbow Health (ELM)	107	99	112

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.

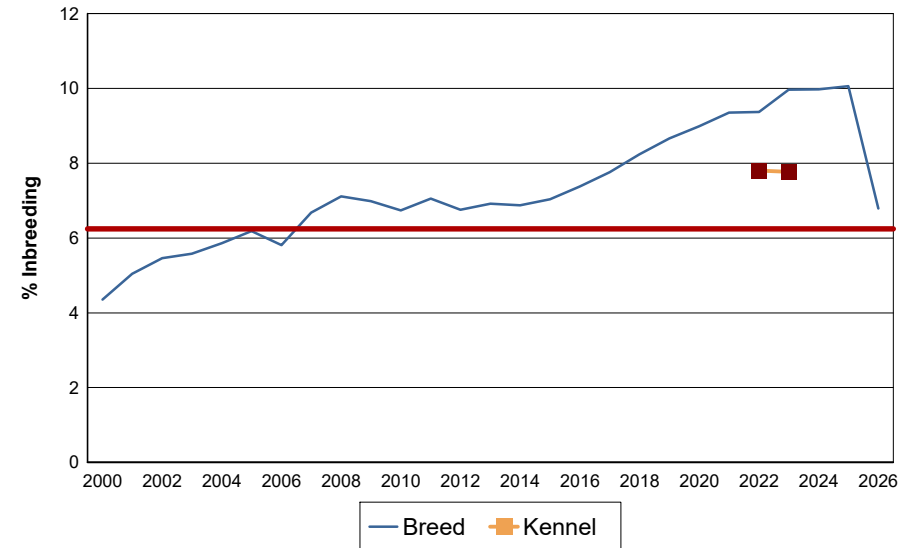
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients 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

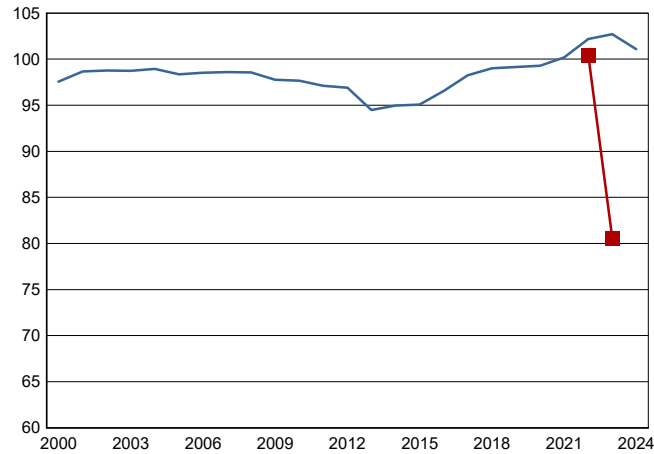


Inbreeding Levels

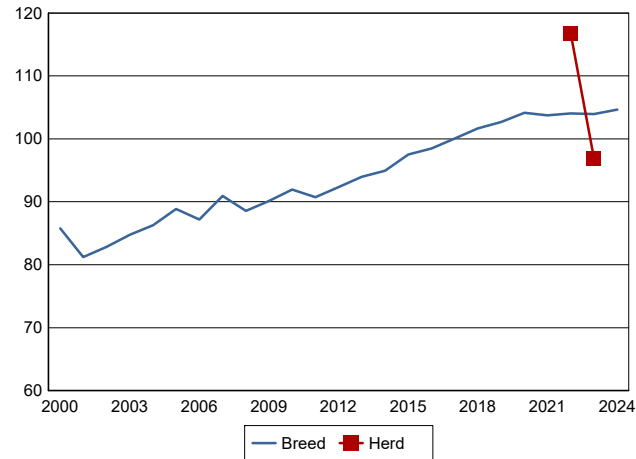
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	13	49007	5	25141	8	23857	8	3371	8	6287
Average Inbreeding	9.68	8.49	12.92	8.46	7.66	8.53	10.38	8.01	8.14	8.00
Number inbred	13	48727	5	24990	8	23728	8	24990	8	23728
Number >6.25% Inbr.	8	30600	5	15537	3	15058	7	15537	4	15058

Genetic Trends

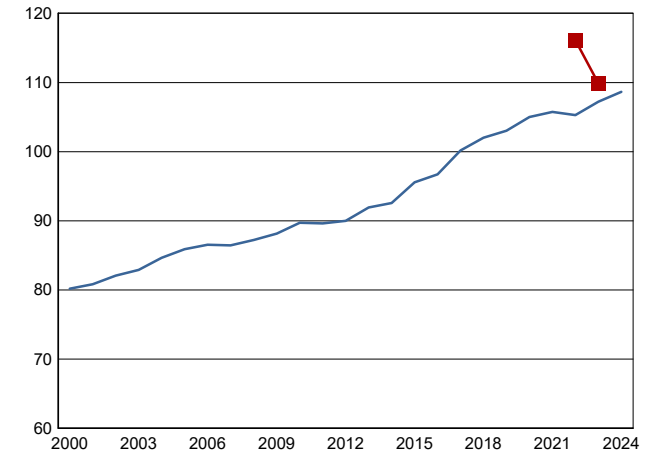
Litter Size



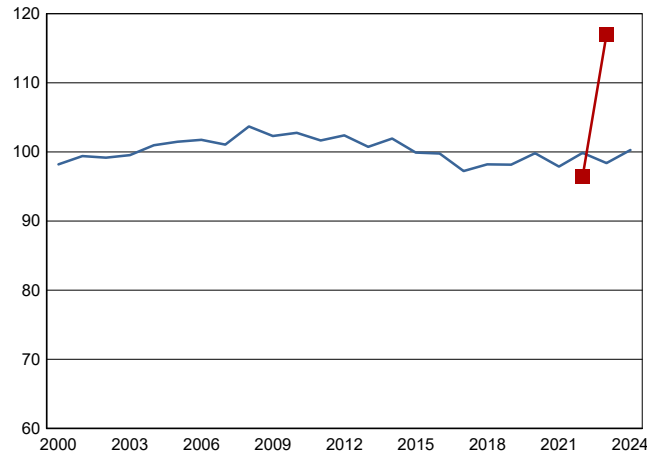
Movement



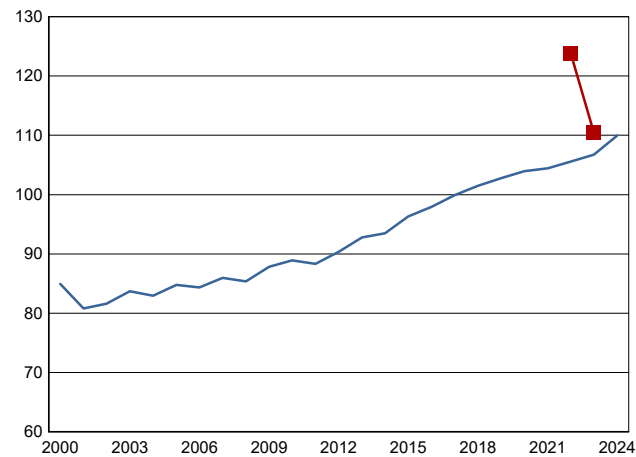
Temperament



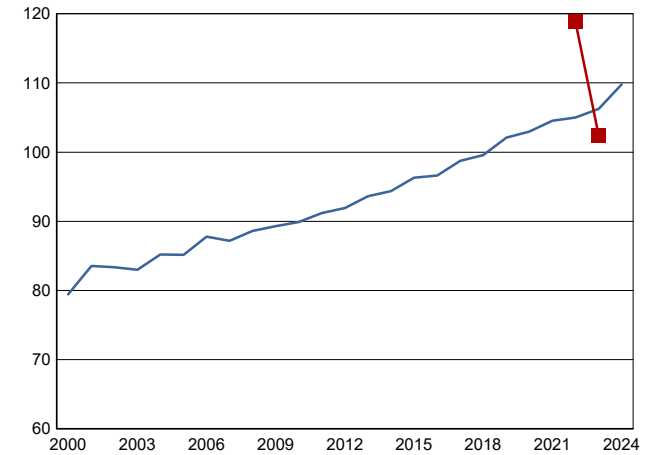
Coat



General Appearance

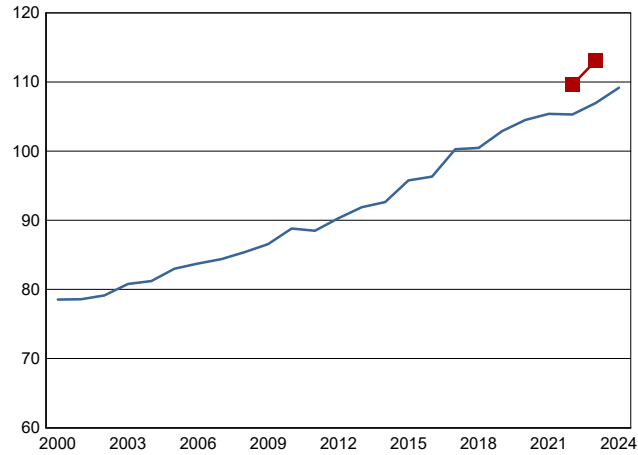


Head & Face

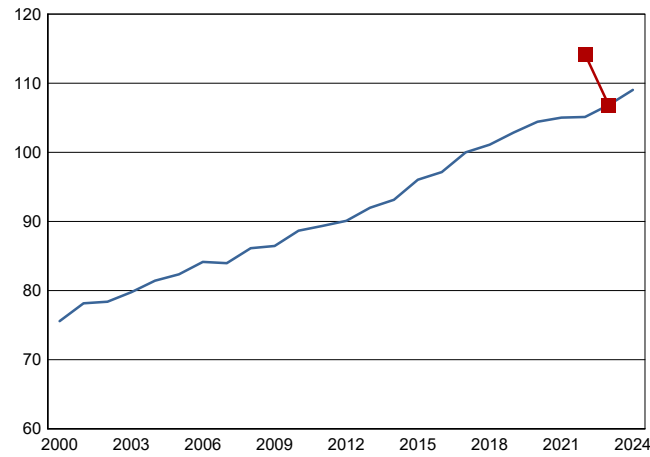


Genetic Trends

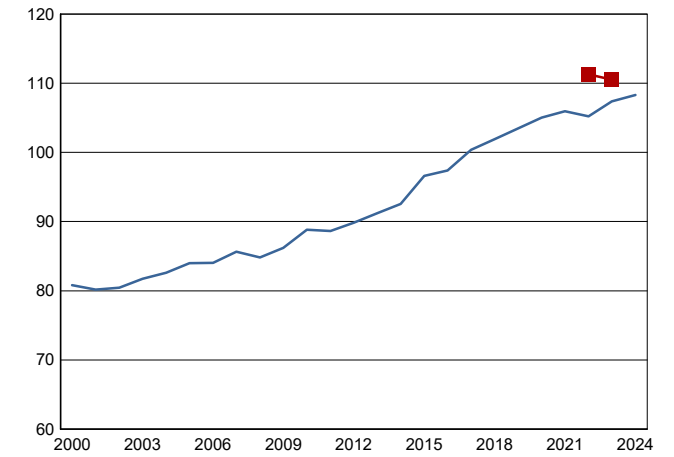
Front Quarter



Centre

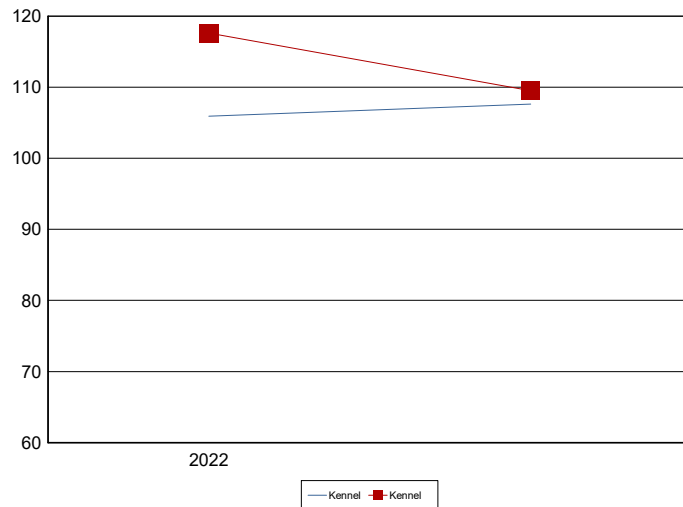


Hind Quarter

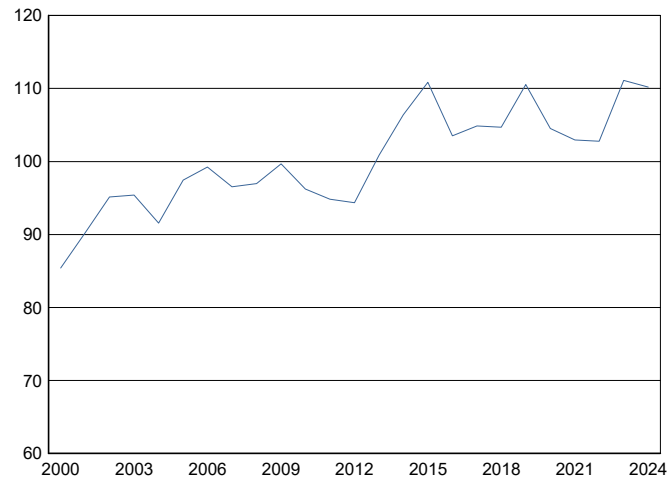


Final Score & Health Traits

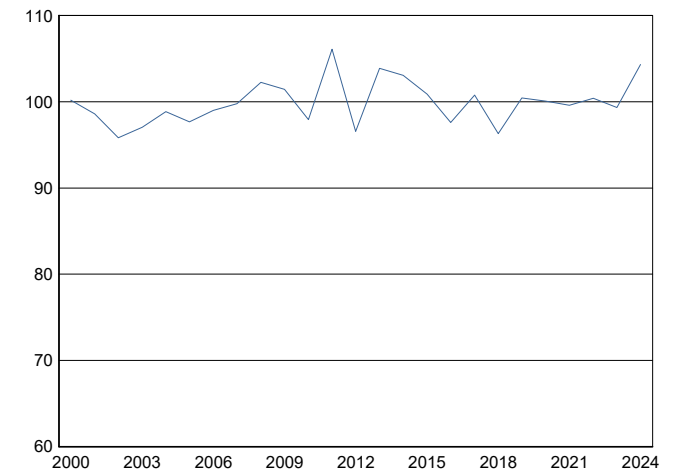
Final Score



Hip Health



Elbow Health



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	
ELEVATION SHAKA		ELEVATION PEPSI	11.71	133	96	85	111	117	97	125	117	110	116	96	113						
	2017	ELEVATION BOEBOE		5	18	30	55	33	68	54	67	55	57	59	63						
TERRIBLE TWINS KNOX		ELEVATION GHETTO-ROUGH	16.36	112	84	97	121	125	86	119	124	113	112	114	120			1			1
	2019	JAMBAL BUHLE		5	11	25	54	29	68	53	67	55	57	59	63	3	1	1			1
MIDDELPOS BBD JUMBO		MIDDELPOS BBD GAMKA	10.65	121		83	83	117	102	117	124	128	114	115	120			2			1
	2021	JAMBAL PENNY		5		31	55	32	69	55	69	56	58	60	65	24	5	2			1
FRANK IRENE EASY MONEY		PAMPOENKRAAL APOCALYPSE	7.35	112	93	108	101	119	112	115	116	119	113	116	119						
	2022	FRANK IRENE HARLEIGH QUINN		5	5	5	46	15	64	46	63	47	50	53	58						
GROOT VIKTOR		MIDDELPOS BBD SAMPIE	18.54	103	103	76	91	97	90	94	111	101	96	102	102						
	2023	JAMBAL PENNY		5	5	5	31	5	46	31	46	32	34	37	42						

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 RUBY ROSE		KAMMO BBD HOGUE	5.80	89	90	104	104	100	109	114	102	99	104	103	105	11	2	1			1
	2019	BODINGTON BOERBOEL ANASTASIA		5	5	32	50	23	67	49	66	51	53	56	61			1			1
GROOT GEORGIA		AFRIKA KALLIE 8	8.88	119	115	78	113	104	106	95	106	107	99	101	105	2	1	1			
	2021	ELEVATION KNYSNA		5	5	24	43	9	62	43	61	44	47	50	56			1			
MONSOON SAVANNA		MIDDELPOS BBD JUMBO	12.79	120	117	81	98	110	104	106	115	117	107	108	113						
	2023	GROOT GEORGIA		5	5	5	28	5	43	28	42	29	31	34	38						
MONSOON LYLY		MIDDELPOS BBD JUMBO	12.79	120	117	81	97	110	117	110	102	113	107	111	110						
	2023	GROOT GEORGIA		5	5	5	39	5	59	39	57	40	43	46	52						
MONSOON LOLA		MIDDELPOS BBD JUMBO	5.26	108	114	92	89	104	115	107	114	112	101	104	109						
	2023	BOUWER LOLITA		5	5	20	32	5	45	32	44	33	35	37	41						
MONSOON SANDY		MIDDELPOS BBD JUMBO	5.26	108	114	92	89	104	115	107	114	112	101	104	109						
	2023	BOUWER LOLITA		5	5	20	32	5	45	32	44	33	35	37	41						
MONSOON PETRA		MIDDELPOS BBD JUMBO	5.26	108	114	92	89	104	115	107	114	112	101	104	109						
	2023	BOUWER LOLITA		5	5	20	32	5	45	32	44	33	35	37	41						
MONSOON LEANY		MIDDELPOS BBD JUMBO	5.26	108	114	92	89	104	115	107	114	112	101	104	109						
	2023	BOUWER LOLITA		5	5	20	32	5	45	32	44	33	35	37	41						

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		
ELEVATION PEPSI		MIDDELPOS BBD IMPI	7.81	158	100	74	116	111	116	119	108	99	111	95	109	98 19	36 32	4 4		19 8	
	2015	ELEVATION ZOEY		45	58	51	76	54	86	75	85	76	78	79	83						
KAMMO BBD HOGUE		MES BITE A BULLET	7.47	96	81	102	105	104	100	121	107	93	107	103	106	16 1	5 4			2 1	
	2016	ELEVATION KENNA		10	25	45	60	40	73	60	72	61	63	65	69						
ELEVATION GHETTO-ROUGH		ELEVATION DAX	14.22	109	79	89	132	134	111	126	138	125	119	116	133	105 22	40 35	4 4		29 9	
	2017	QUREDU MIA		32	51	49	77	55	87	77	86	78	79	81	84						
MIDDELPOS BBD GAMKA		AFRIKA LEO 5	18.20	138	139	100	78	117	89	106	133	133	109	106	118	137 29	57 42	5 6		38 9	
	2017	MIDDELPOS BBD DIXIE		34	50	56	81	60	89	80	89	81	83	84	87						
AFRIKA KALLIE 8		AFRIKA KALLAS	10.23	108	126	80	99	98	92	97	111	107	86	92	98	29 6	6 6			3 1	
	2018	AFRIKA RURA		5	23	39	45	21	58	44	57	46	48	50	54						
MIDDELPOS BBD SAMPIE		BREKER MENEER	4.49	103	106	82	94	90	88	87	114	93	87	93	97	33 10	2 2			1 1	
	2020	WOEKER BBD KATINKA		5	5	30	57	33	71	56	71	57	60	62	66						
PAMPOENKRAAL APOCALYPSE		MIDDELPOS BBD BRUCE ALMIGHTY	9.95	118	96	108	91	117	116	125	133	120	112	114	125	63 6	16 13			3 3	
	2020	KLEIN SANDFONTEIN LISA MARI		5	9	23	61	33	76	61	76	62	64	67	72						
MIDDELPOS BBD JUMBO		MIDDELPOS BBD GAMKA	10.65	121		83	83	117	102	117	124	128	114	115	120	24 5	2 2			1 1	
	2021	JAMBAL PENNY		5		31	55	32	69	55	69	56	58	60	65						

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	
ELEVATION BOEBOE	2014	GROENBERG BBD RAMBO	3.80	107	91	96	103	120	88	131	105	114	116	109	111	15	2	7		4	
		ELEVATION FUDGE		23	32	58	67	49	78	66	78	67	69	71	74			7			
BODINGTON BOERBOEL ANASTASIA	2017	BODINGTON BOERBOEL BLACK BEAR	6.87	81	99	91	96	94	94	100	104	100	102	105	102	14	3	6		2	
		BODINGTON BOERBOEL DAISY DUKE		5	5	39	56	28	73	55	72	57	59	62	67			3			
BOUWER LOLITA	2017	BOUWER NELSON I	3.82	94	109	101	95	92	128	97	103	97	87	94	99	10	2	4		2	
		AFRIKA MILLA II		5	5	45	50	23	65	49	64	50	53	55	60			4			
ELEVATION KNYSNA	2018	ZUKANDI KEEGAN	20.15	131	103	84	116	112	122	111	111	110	112	105	114	4	1	1		1	
		ELEVATION ECHO		5	25	38	51	27	68	51	67	52	54	57	62			1			
JAMBAL BUHLE	2018	ELEVATION COOPER	12.31	115	89	106	114	119	81	109	109	111	110	114	112	8	1	6	1	5	
		MIDDELPOS BBD EMILY		16	32	48	57	36	69	56	68	58	59	61	65			6	1		
JAMBAL PENNY	2019	BREKER MENEER	3.24	104	101	70	89	104	91	102	107	109	105	110	106	22	6	2		1	
		JAMBAL TIKE-EE		5	5	55	56	34	70	56	70	57	59	61	66			2			
FRANK IRENE HARLEIGH QUINN	2019	KLEIN WITWAL BBD SHOT CALLER	6.06	107	90	108	118	116	114	104	94	109	107	113	108	19	1	2		2	
		KAMMO BBD SABRINA		5	5	27	52	25	69	52	68	53	56	58	64			2			
GROOT GEORGIA	2021	AFRIKA KALLIE 8	8.88	119	115	78	113	104	106	95	106	107	99	101	105	2	1	1			
		ELEVATION KNYSNA		5	5	24	43	9	62	43	61	44	47	50	56			1			

