

Boerboel Genetic Evaluation

SA Stud Book
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MR R.R. THAMAE

PRIVATE BAG A96

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MASERU

LESOTHO



Kennel Number: 688682



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.

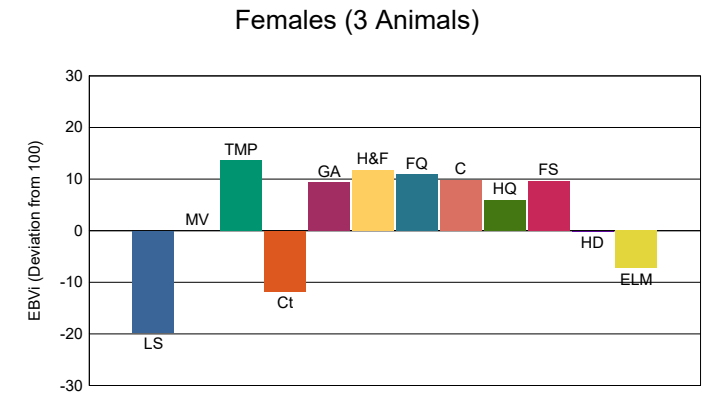
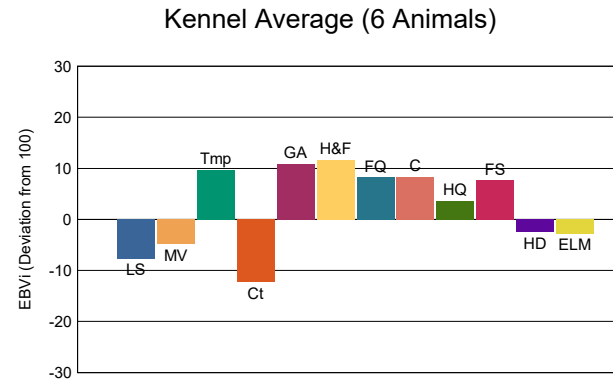
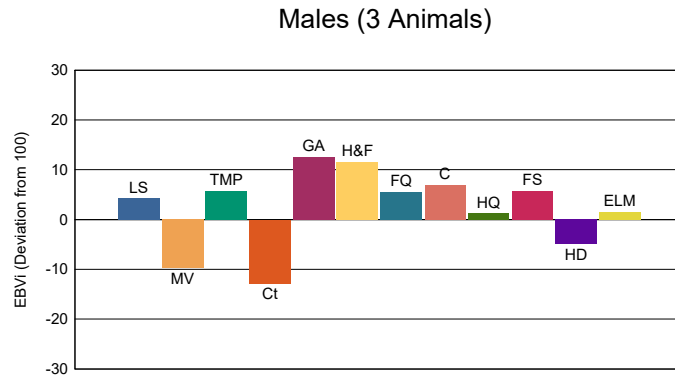
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	92	104	80
Movement (Mv)	95	90	100
Temperament (Tmp)	110	106	114
Coat (Ct)	88	87	88
General Appearance	111	113	109
Head & Face (H&F)	112	112	112
Front Quarter (FQ)	108	106	111
Centre (C)	108	107	110
Hind Quarter (HQ)	104	101	106
Final Score (FS)	108	106	110
Hip Health (HH)	97	95	100
Elbow Health (ELM)	97	102	93

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.

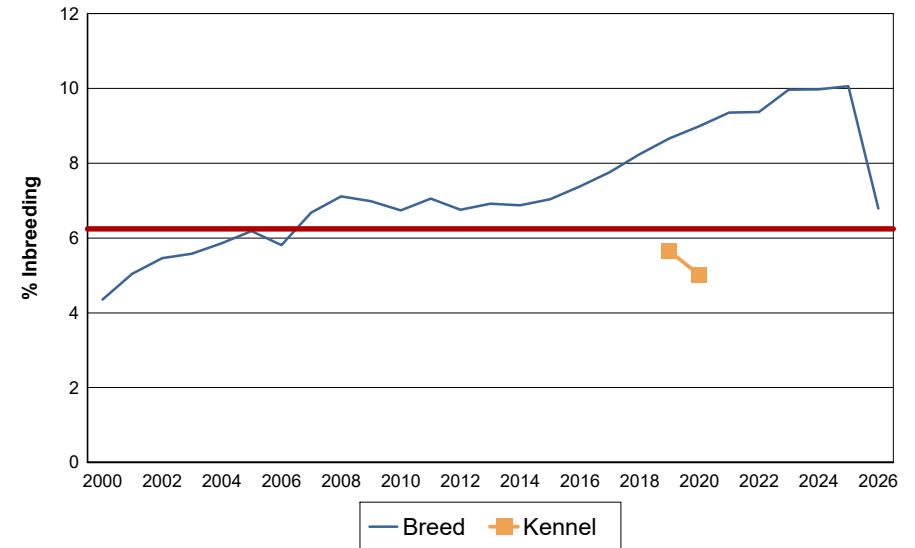
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

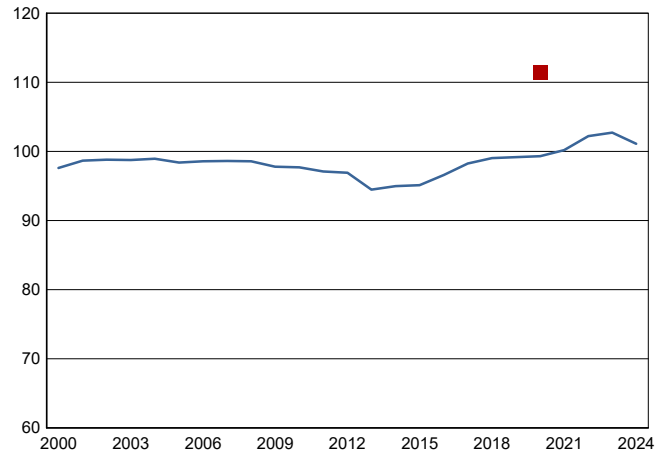


Inbreeding Levels

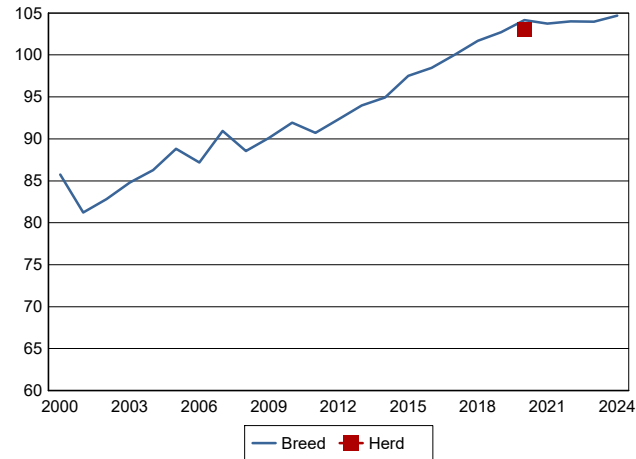
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	6	49007	3	25141	3	23857	5	3371	6	6287
Average Inbreeding	8.94	8.49	8.05	8.46	9.83	8.53	9.11	8.01	7.43	8.00
Number inbred	6	48727	3	24990	3	23728	5	24990	6	23728
Number >6.25% Inbr.	5	30600	2	15537	3	15058	4	15537	4	15058

Genetic Trends

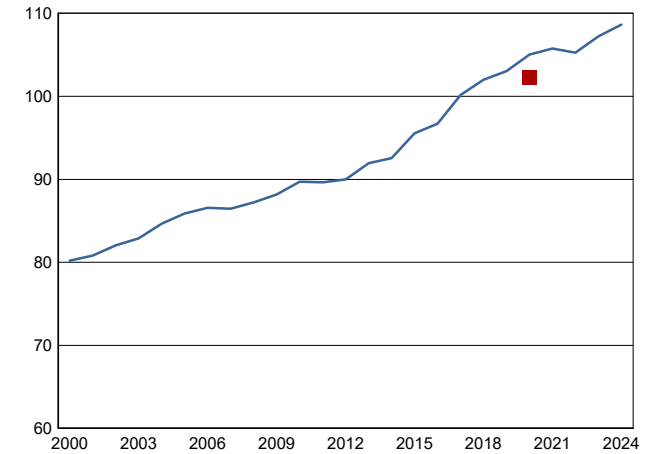
Litter Size



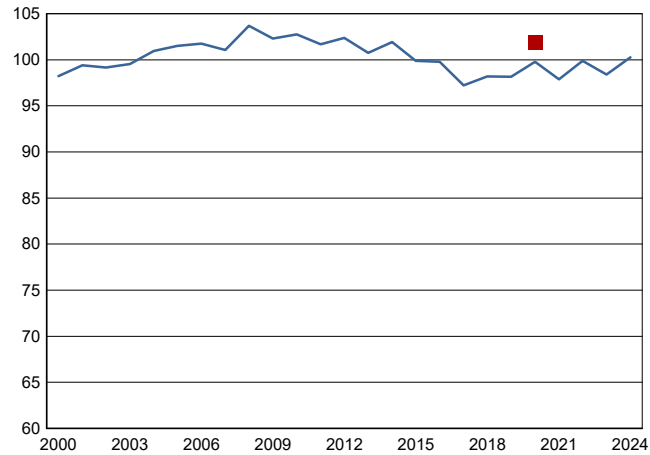
Movement



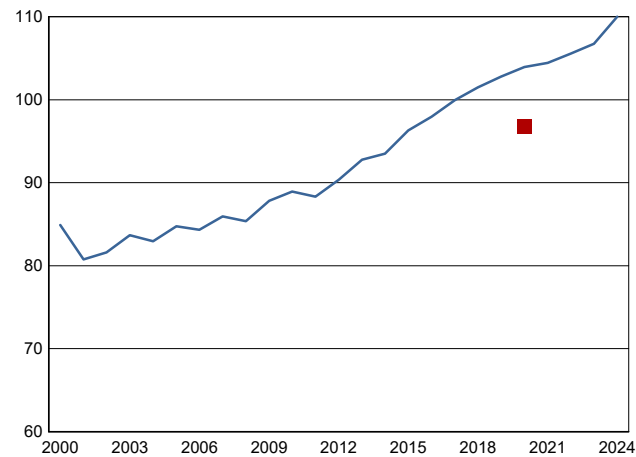
Temperament



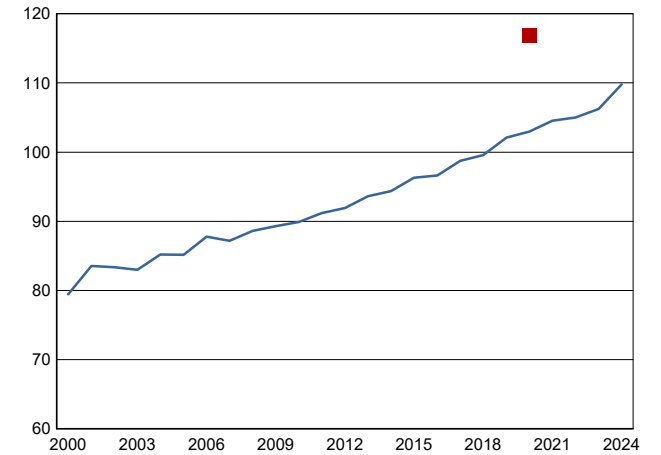
Coat



General Appearance

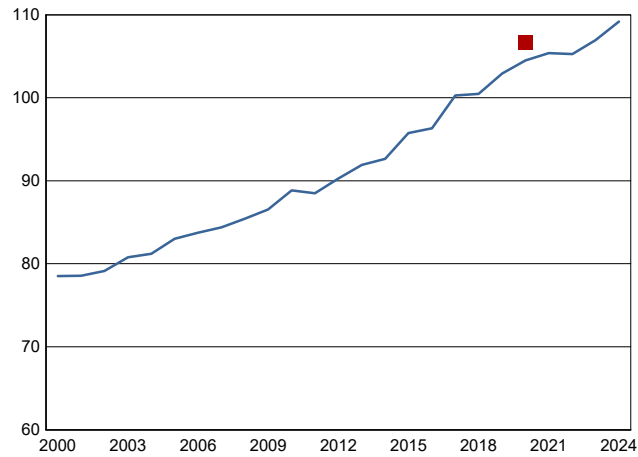


Head & Face

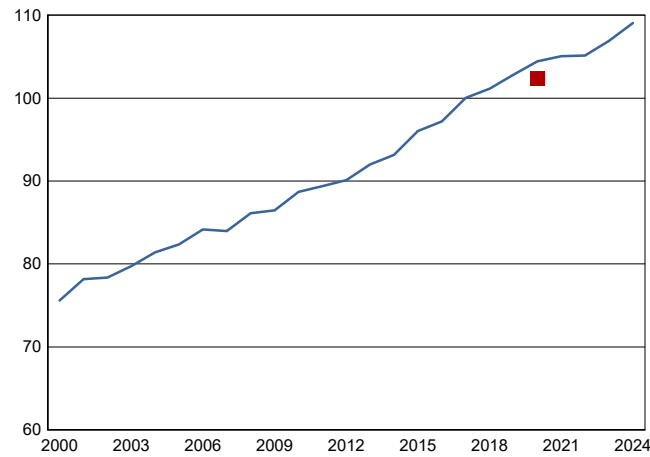


Genetic Trends

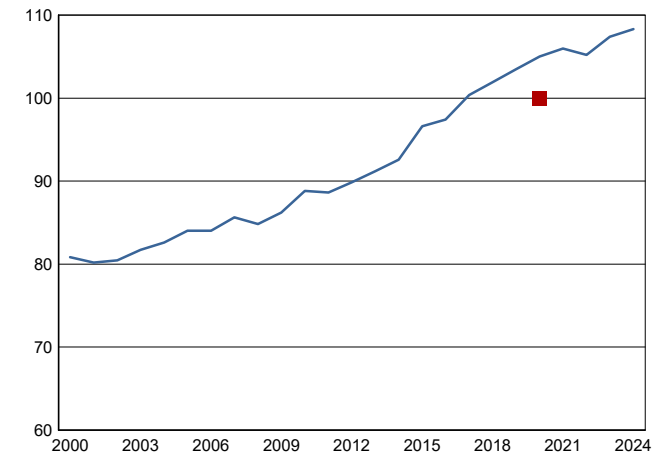
Front Quarter



Centre



Hind Quarter

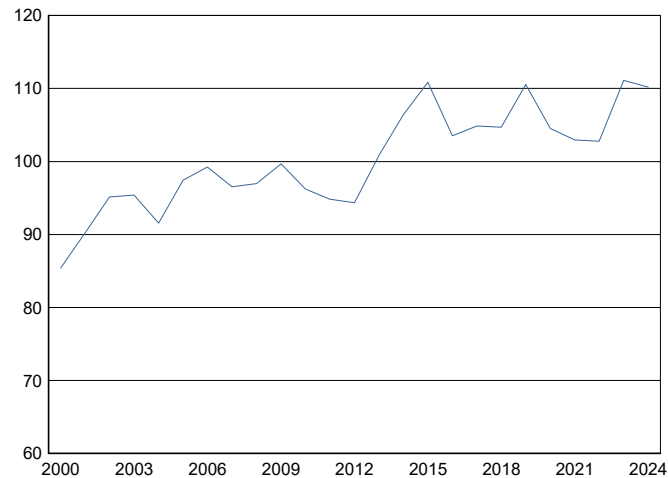


Final Score & Health Traits

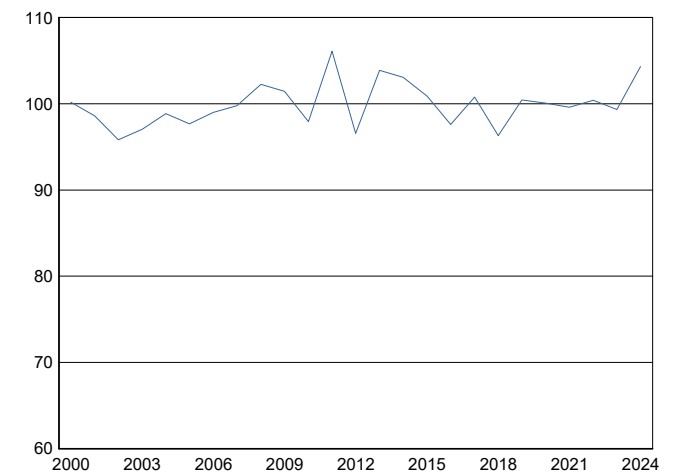
Final Score



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	
TET WHITEWALKER		BOSTU TAU	4.80	90	115	99	104	103	93	104	111	104	109	102	107					
	2020	TWILIGHT BBD MONA LISA		5	5	17	32	6	42	31	41	32	34	35	39					
HEAVY WEIGHTS CHAMP OF THE WORLD		AFRIKA GHUNTER	10.81	92	82	92	82	109	73	111	104	102	103	102	100					
	2021	JOSMOT MISS S.A.		5	5	22	54	29	68	54	67	55	57	59	64					
KLEIN SANDFONTEIN KUSHITE		KLEIN SANDFONTEIN MAJOR TOM	8.53	103	108	122	85	105	95	123	120	111	108	100	110					
	2023	KLEIN SANDFONTEIN NITEY NITE		5	5	22	36	5	49	36	49	37	39	41	45					

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	
BOSTU NERFETITI		BOSTU ZAZU	9.73	96	96	61	92	119	68	121	119	109	115	107	112				
	2021	BOSTU RONA		12	32	37	54	32	67	53	66	54	56	58	62				
BOSTU SHULA		MIDDELPOS BBD SHAKA	9.08	107	100	83	84	102	102	95	110	112	102	97	104				
	2021	TREBLA ULA II		5	5	19	46	16	64	45	63	47	49	52	58				
ARTIFACTS NUBIAN QUEEN		AFRIKA GHUNTER	10.67	97	82	97	124	120	95	112	106	112	113	113	114				
	2021	ARTIFACTS ZANDA		5	5	19	50	25	65	50	64	51	53	55	60				

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	
BOSTU ZAZU		MES ASKAM	7.38	76	91	37	101	116	83	121	121	105	112	110	114	175 29	52 36	10 11		29
	2016	MES SHAKIRA		47	62	64	80	61	89	80	89	81	82	84	87					5
MIDDELPOS BBD SHAKA		AFRIKA LEO 5	5.70	108	96	90	92	109	98	96	104	110	96	96	100	20 6	7 7			3
	2017	MIDDELPOS BBD FUDGE		10	23	39	60	36	76	60	75	61	63	66	71					1
AFRIKA GHUNTER		MES RUBENSTEIN	9.30	93	66	103	113	135	118	138	125	129	122	119	130	227 37	64 43	1 1		32
	2018	DORSLAND EMMA		19	33	49	79	57	88	79	88	79	81	83	86					11
BOSTU TAU		TARGUS RAM	10.75	73	106	84	108	107	89	103	103	101	109	102	104	6 1				
	2019	BOSTU MOLLY		5	9	35	55	33	68	55	67	56	58	60	64					
KLEIN SANDFONTEIN MAJOR TOM		KLEIN SANDFONTEIN RASPUTIN	12.42	104	102	93	86	105	94	119	107	107	101	98	102	58 8	11 9			8
	2020	MES O` HARA		5	5	36	57	25	74	56	73	58	60	63	68					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-rament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
TREBLA ULA II	2017	TREBLA BOETMAN	7.48	106	105	77	80	97	100	98	118	114	109	97	107	6	2	4			3
		MES LILLA		5	5	40	52	29	65	51	64	53	55	57	61			3			1
KLEIN SANDFONTEIN NITEY NITE	2018	KLEIN SANDFONTEIN NUTCRACKER	7.47	102	114	150	84	105	97	126	133	114	116	103	118	30	3	6			6
		KLEIN SANDFONTEIN PIPER		5	5	50	55	31	68	54	67	55	57	59	63			5			1
JOSMOT MISS S.A.	2018	CABARET BORIS (PASELLA)	13.68	91	98	80	60	89	25	90	99	82	92	87	80	25	4	13			6
		JOSMOT KOOLKAT		5	5	35	62	32	77	61	77	63	65	68	72			7			1
TWILIGHT BBD MONA LISA	2019	KLEIN SANDFONTEIN NUTCRACKER	1.66	108	124	115	99	99	97	104	119	108	110	101	110	13	1	1			
		TWILIGHT BBD BELLA		5	19	34	47	27	58	46	57	47	49	51	54			1			
BOSTU RONA	2019	GROENBERG BBD RAMBO	4.17	117	101	85	94	119	79	122	109	111	117	107	110	27	5	8			2
		TARGUS LUNDI		43	58	63	59	42	71	59	71	60	62	64	67			4	2	2	1
ARTIFACTS ZANDA	2020	ARTIFACTS YSTER	10.10	101	99	90	127	110	89	91	94	105	106	113	104	9	1	2			1
		TREBLA PATAT		5	5	27	45	18	59	45	58	46	48	50	54			2			1

