

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 718241



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.

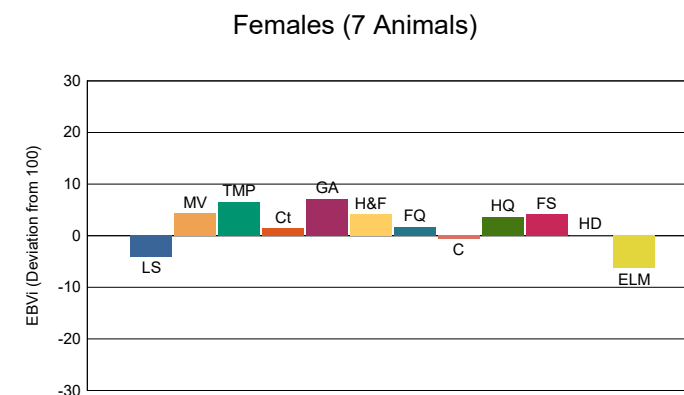
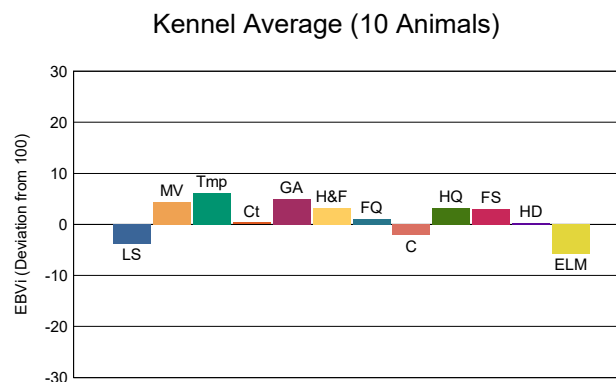
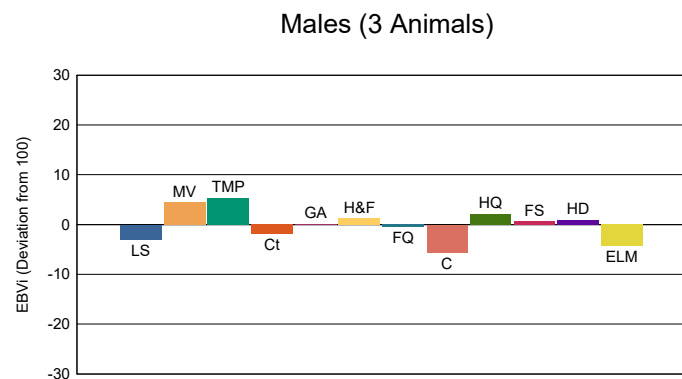
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	96	97	96
Movement (Mv)	104	104	104
Temperament (Tmp)	106	105	107
Coat (Ct)	100	98	101
General Appearance	105	100	107
Head & Face (H&F)	103	101	104
Front Quarter (FQ)	101	100	102
Centre (C)	98	94	99
Hind Quarter (HQ)	103	102	104
Final Score (FS)	103	101	104
Hip Health (HH)	100	101	100
Elbow Health (ELM)	94	96	94

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.

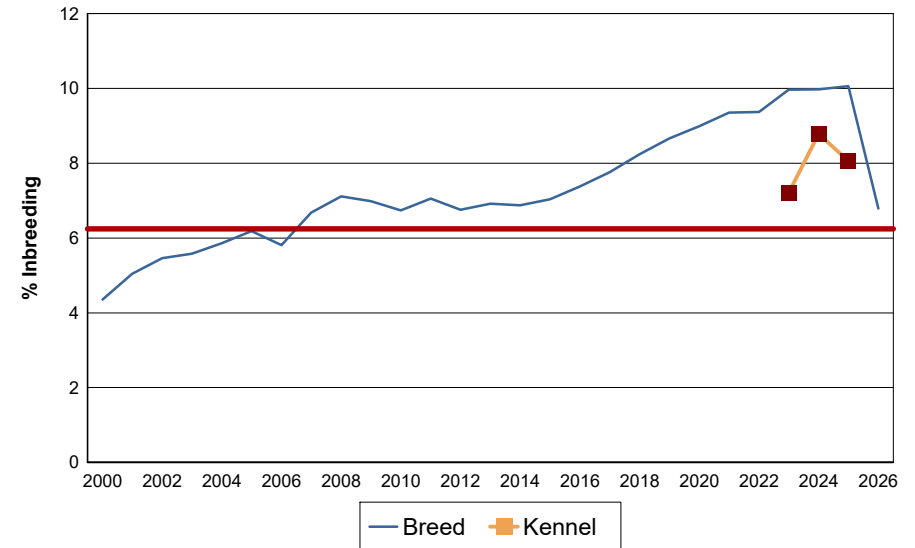
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

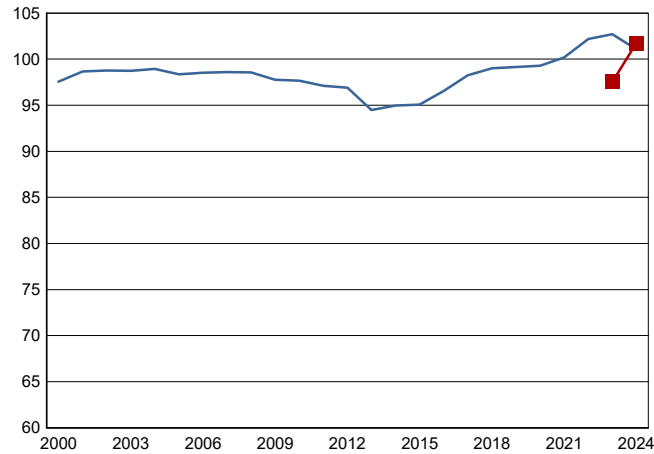


Inbreeding Levels

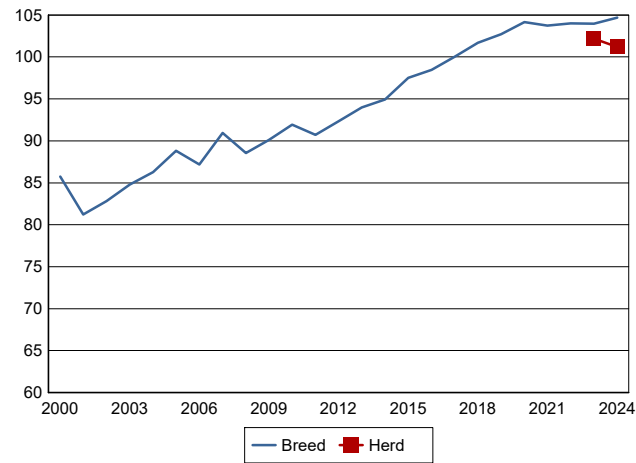
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	3	25141	7	23857	8	3371	7	6287
Average Inbreeding	8.45	8.49	7.52	8.46	8.85	8.53	7.31	8.01	9.54	8.00
Number inbred	10	48727	3	24990	7	23728	8	24990	7	23728
Number >6.25% Inbr.	7	30600	2	15537	5	15058	3	15537	5	15058

Genetic Trends

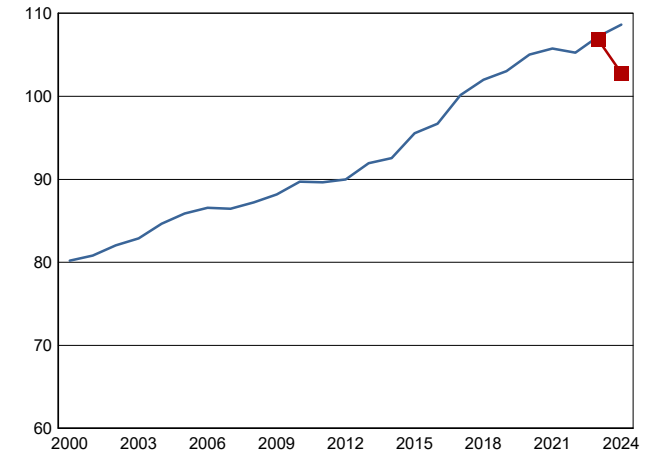
Litter Size



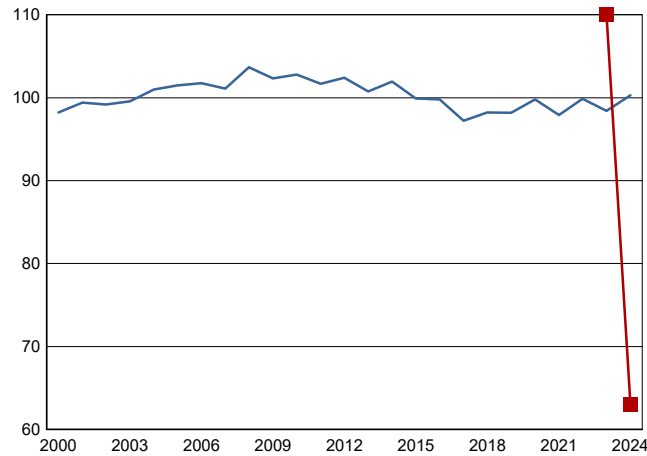
Movement



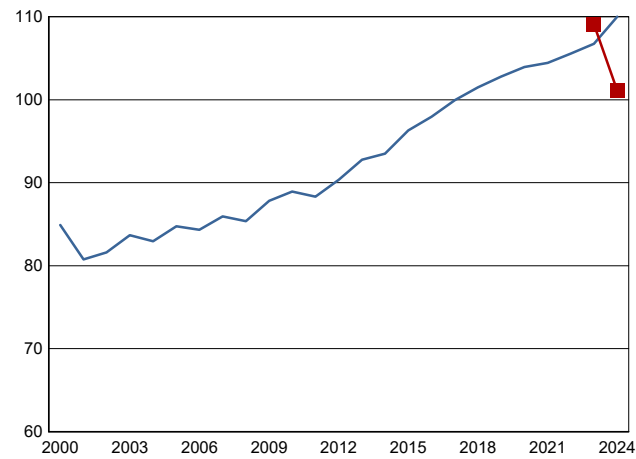
Temperament



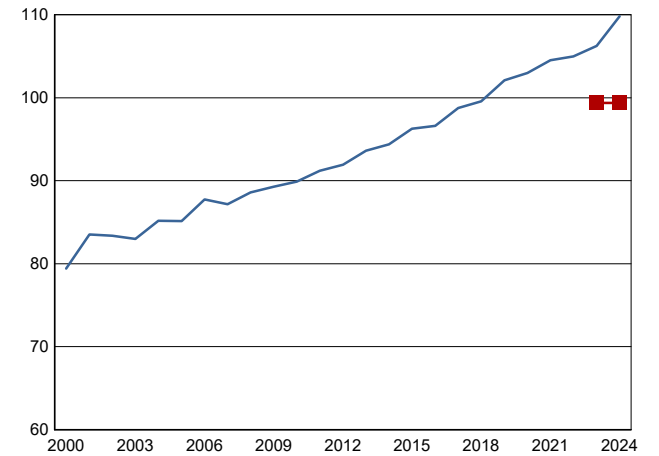
Coat



General Appearance

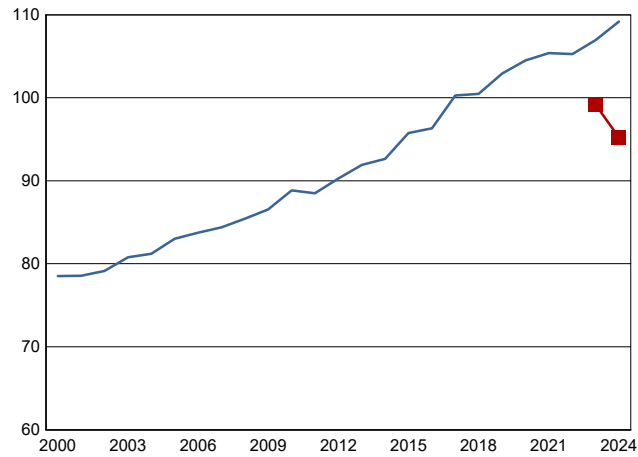


Head & Face

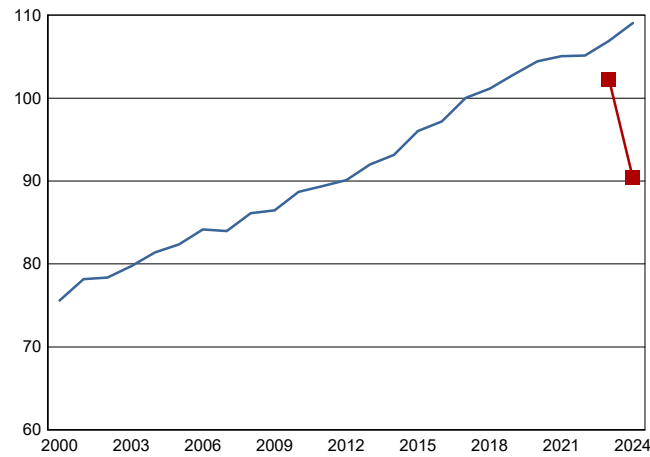


Genetic Trends

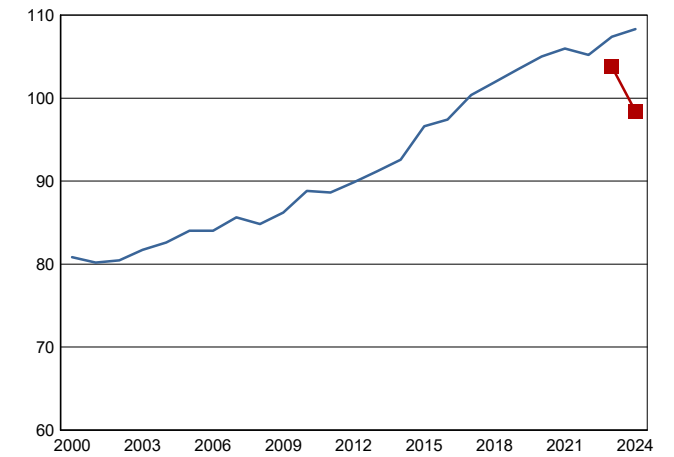
Front Quarter



Centre

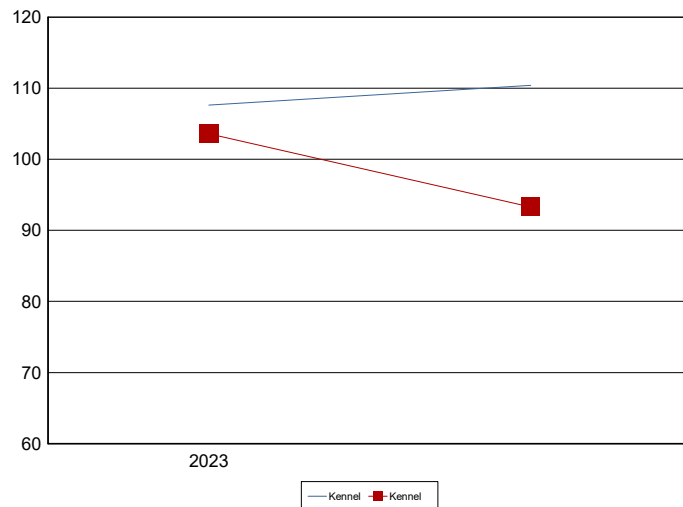


Hind Quarter

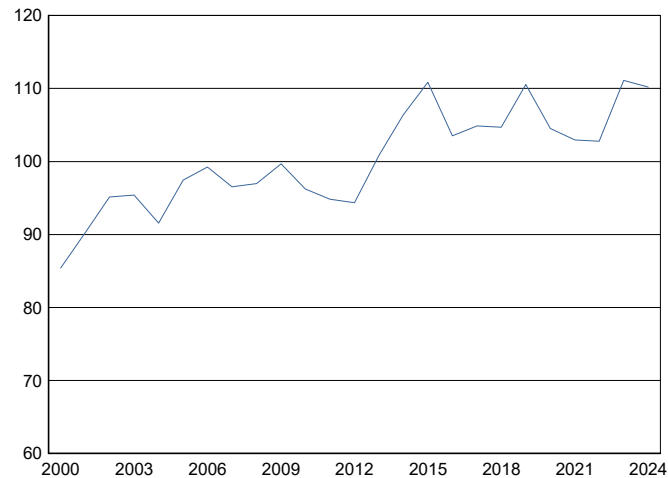


Final Score & Health Traits

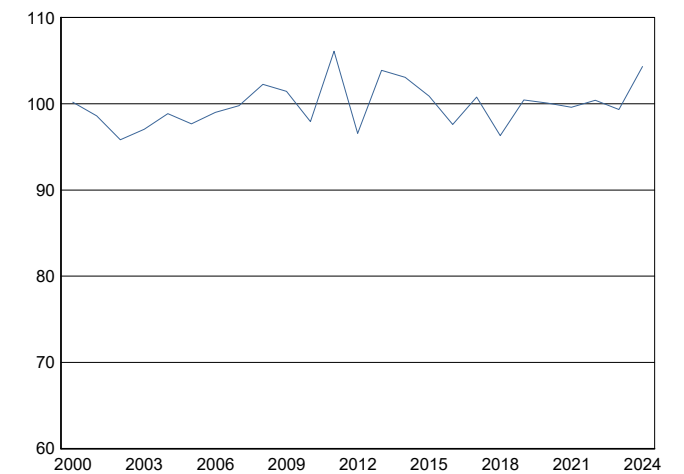
Final Score



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	
SA EXTREME BULLET		MIDDELPOS BBD HANNES	4.99	112	89	88	111	109	106	96	96	103	99	105	102	14	3	1			1
	2017	TREBLA MAGGIE1		5	5	29	47	24	64	46	63	48	50	53	58			1			1
LAKABANE COCO		MAJINGILANE NGONYAMA	8.78	96	99	102	101	103	94	103	104	98	92	101	100						
	2024	NTOZIMNANDI COOKIE		5	5	5	30	5	45	27	44	31	33	36	40						
LAKABANE TERMINATOR		MAJINGILANE NGONYAMA	8.78	96	99	102	101	103	94	103	104	98	92	101	100						
	2024	NTOZIMNANDI COOKIE		5	5	5	30	5	45	27	44	31	33	36	40						

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	
HERBERG MALALA	2020	MAKULU LAANIE ROEPER	4.26	113	101	95	118	105	121	96	118	112	102	111	115	2		1			
		DEO-HAN SHADOW		5	5	23	54	29	69	53	68	55	57	59	64			1			
NTOZIMNANDI COOKIE	2020	MARVILLOSO NKUNZI	8.19	98	101	102	104	102	115	106	109	100	93	99	104	11	2	3			
		ROKAFELA BISCUIT		5	5	5	46	11	65	44	63	47	49	52	58			3			
RAINAISANCE SARAH	2021	DUMAS MATRIX	7.32	96	93	94	101	114	92	126	111	107	113	108	111						
		SANBEL BISCUIT		5	5	14	39	11	51	39	50	40	42	44	47						
NTOZIMNANDI ANNIE	2021	SA EXTREME BULLET	10.55	107	85	84	106	111	109	107	101	106	102	104	105	6	1	1			
		ROKAFELA MABHEBEZA		5	5	22	43	10	61	41	60	43	46	49	55			1			
NTOZIMNANDI SNAPPY	2022	TSM REDDINGTON	16.74	107	88	89	93	118	91	127	113	112	111	109	112	4	1	2			1
		ROKAFELA MABHEBEZA		5	5	19	45	9	63	44	62	46	49	51	57			2			1
LAKABANE KENYA	2023	KADIMA DASCHU-COOL	6.11	84	89	107	108	94	117	87	79	79	85	97	87						
		NTOZIMNANDI ANNIE		5	5	6	44	13	62	43	61	45	47	50	56						
LAKABANE CUP CAKE	2024	MAJINGILANE NGONYAMA	8.78	96	99	102	101	103	63	101	99	95	90	98	93						
		NTOZIMNANDI COOKIE		5	5	5	41	5	61	27	60	42	45	48	54						

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	
MIDDELPOS BBD HANNES		GROENBERG BBD RAMBO	6.84	129	94	79	116	120	101	106	107	111	106	113	112	73	10	8	1	1	3
	2014	MIDDELPOS BBD MOKKA		29	32	50	62	46	72	61	71	62	63	65	68		8			2	
MAKULU LAANIE ROEPER		MAKULU LAANIE DIMO	5.51	107	102	78	90	91	104	99	112	97	99	97	102	91	14	26	1	1	17
	2015	BREKER PATRYS		5	5	42	70	44	82	69	82	71	73	75	79		21			3	
SA EXTREME BULLET		MIDDELPOS BBD HANNES	4.99	112	89	88	111	109	106	96	96	103	99	105	102	14	3	1		1	
	2017	TREBLA MAGGIE1		5	5	29	47	24	64	46	63	48	50	53	58		1			1	
DUMAS MATRIX		ELEVATION AROS	5.20	88	95	88	95	125	73	147	124	117	129	110	121	69	14	25		14	
	2018	DUMAS NIKITA		5	5	30	70	44	83	69	82	71	73	75	79		11			3	
MARVILLOSO NKUNZI		CABARET ALLYCAT	5.44	89	104	105	92	96	115	98	98	99	96	104	100	12	3	4		2	
	2018	BODINGTON BOERBOEL USCHI		5	5	27	54	25	70	53	69	55	57	60	65		3			1	
TSM REDDINGTON		ELEVATION DJ	14.41	112	96	86	91	119	82	127	115	113	115	108	113	27	6	8		1	
	2020	MES JAY		5	23	31	56	30	72	56	71	57	59	62	67		7			1	
KADIMA DASCHU-COOL		BOSTU DADDY COOL	5.48	62	93	130	98	85	115	86	65	62	76	99	78	49	10	12		4	
	2021	KADIMA TAURUS		16	31	36	63	40	77	63	76	64	66	68	73		10			2	
MAJINGILANE NGONYAMA		VOLSPOED BAKKIES1	10.60	94	97	102	99	105	73	99	100	96	91	102	96	6	1	1			
	2021	ROKAFELA AGATHA		5	5	14	52	22	68	49	67	52	55	57	63		1				

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 MAGGIE1	2013	TREBLA BRANDWAG	4.91	94	85	99	101	99	78	87	89	90	92	100	90	25	5	3			2
		MES HEIDI		5	5	45	47	22	63	46	62	48	50	52	57			3			2
SANBEL BISCUIT	2016	ELEVATION ADAM	5.74	105	92	100	107	104	111	105	99	98	96	105	102	11	1	1			1
		KLEIN SANDFONTEIN LADY SYBIL		5	24	35	49	24	65	49	64	50	52	55	60			1			1
DEO-HAN SHADOW	2017	DEO-HAN BOTHA	14.33	119	99	112	130	109	132	99	110	116	100	115	116	20	2	8			6
		DEO-HAN ZIGGIE		5	5	36	62	35	75	62	75	63	65	67	71			6			2
ROKAFELA BISCUIT	2018	MARVILLOSO DUSTY	7.12	107	98	98	111	101	127	107	103	94	87	93	100	3	1	1			1
		ROKAFELA MANTSO		5	5	33	52	24	68	51	67	53	55	58	63			1			1
ROKAFELA MABHEBEZA	2018	ELEVATION SKIPPER	15.97	102	81	86	97	119	88	123	109	113	110	109	111	17	4	8			4
		ELEVATION EVA		5	5	48	59	35	73	58	72	60	62	64	68			4			1
NTOZIMNANDI COOKIE	2020	MARVILLOSO NKUNZI	8.19	98	101	102	104	102	115	106	109	100	93	99	104	11	2	3			
		ROKAFELA BISCUIT		5	5	5	46	11	65	44	63	47	49	52	58			3			
NTOZIMNANDI ANNIE	2021	SA EXTREME BULLET	10.55	107	85	84	106	111	109	107	101	106	102	104	105	6	1	1			
		ROKAFELA MABHEBEZA		5	5	22	43	10	61	41	60	43	46	49	55			1			

