

Boerboel Genetic Evaluation

SA Stud Book
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TREE RIVER

1433



Kennel Number: 664063



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.

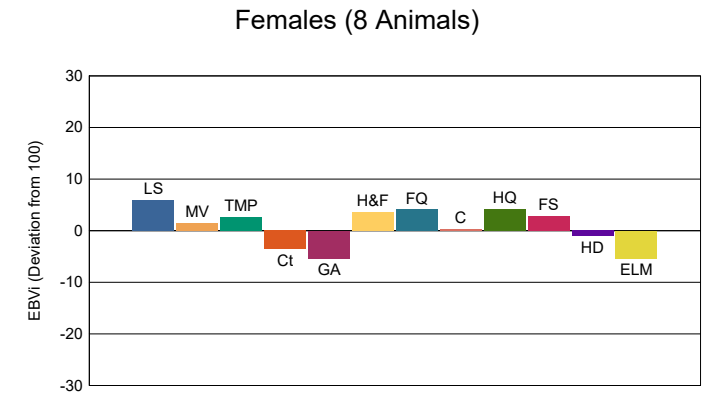
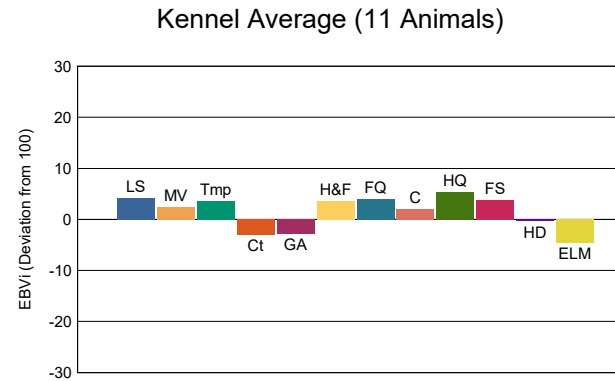
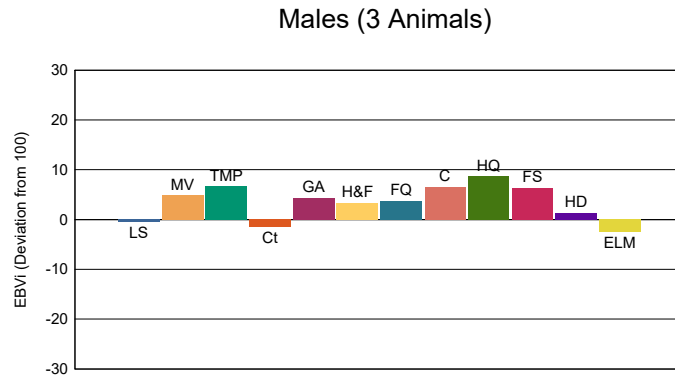
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	104	100	106
Movement (Mv)	102	105	102
Temperament (Tmp)	104	107	103
Coat (Ct)	97	99	96
General Appearance	97	104	95
Head & Face (H&F)	104	103	104
Front Quarter (FQ)	104	104	104
Centre (C)	102	106	100
Hind Quarter (HQ)	105	109	104
Final Score (FS)	104	106	103
Hip Health (HH)	100	101	99
Elbow Health (ELM)	95	97	95

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.

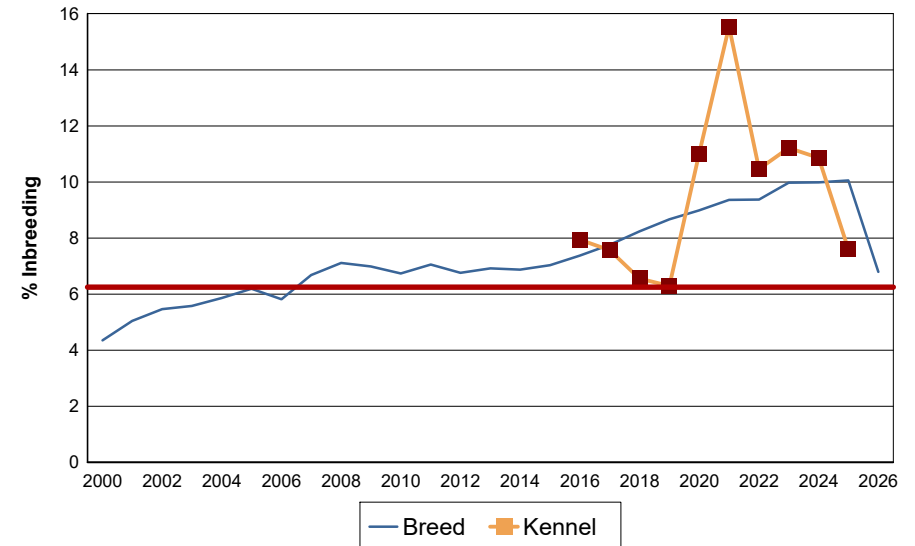
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

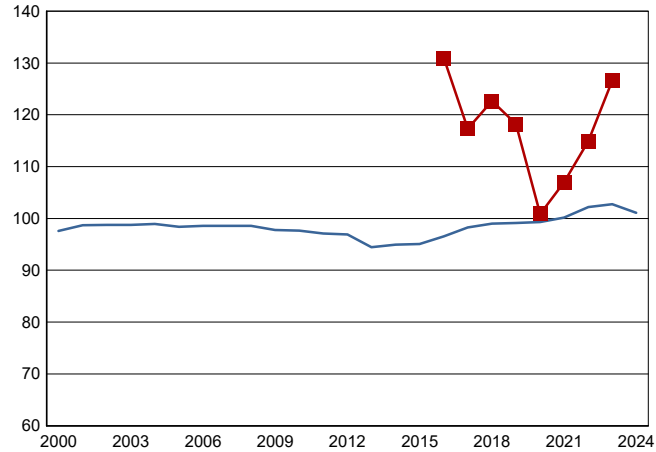


Inbreeding Levels

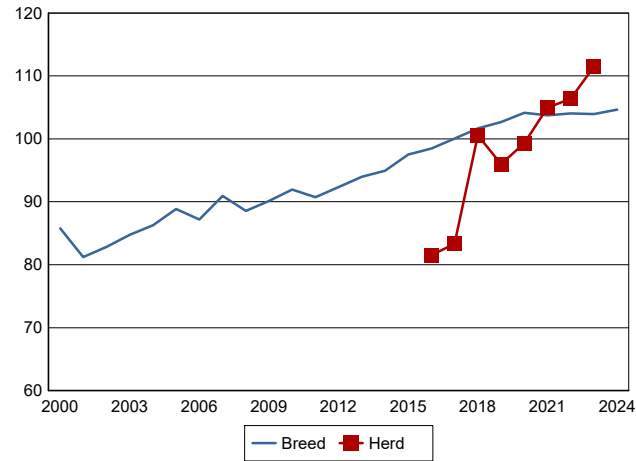
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	11	49007	3	25141	8	23857	5	3371	9	6287
Average Inbreeding	9.67	8.49	10.22	8.46	9.47	8.53	8.50	8.01	9.64	8.00
Number inbred	11	48727	3	24990	8	23728	5	24990	9	23728
Number >6.25% Inbr.	9	30600	2	15537	7	15058	2	15537	6	15058

Genetic Trends

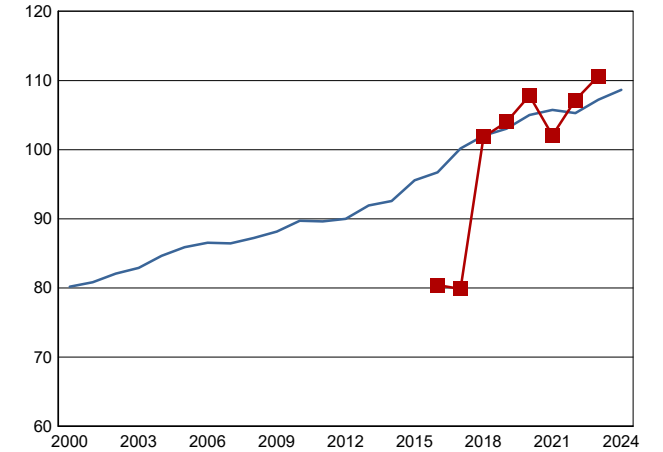
Litter Size



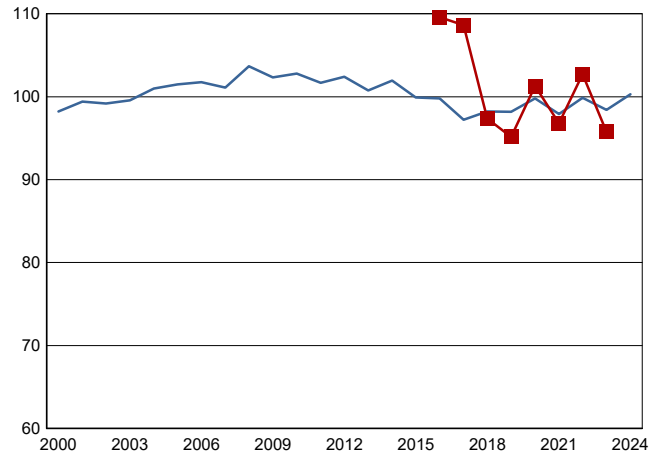
Movement



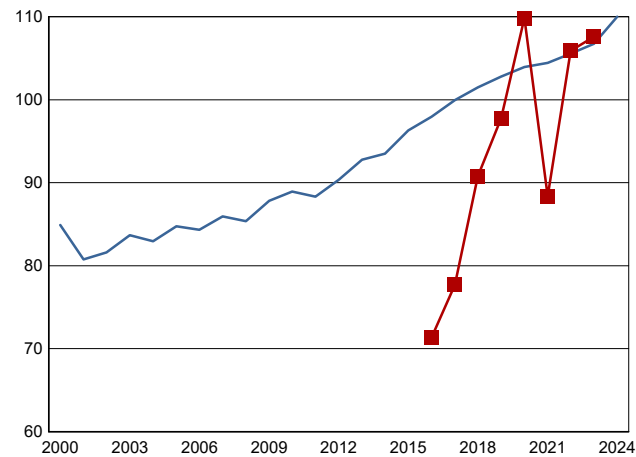
Temperament



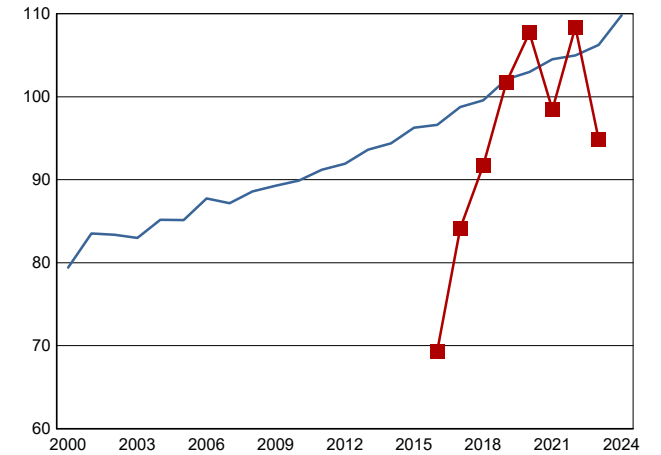
Coat



General Appearance

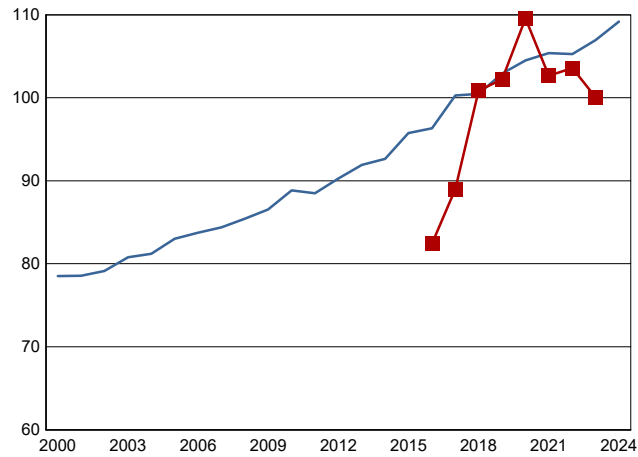


Head & Face

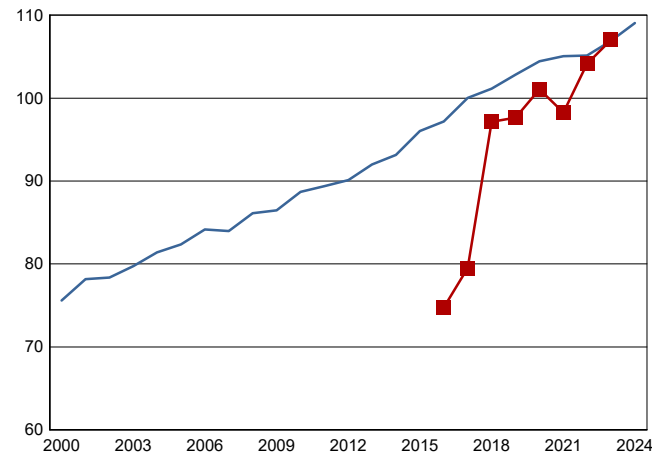


Genetic Trends

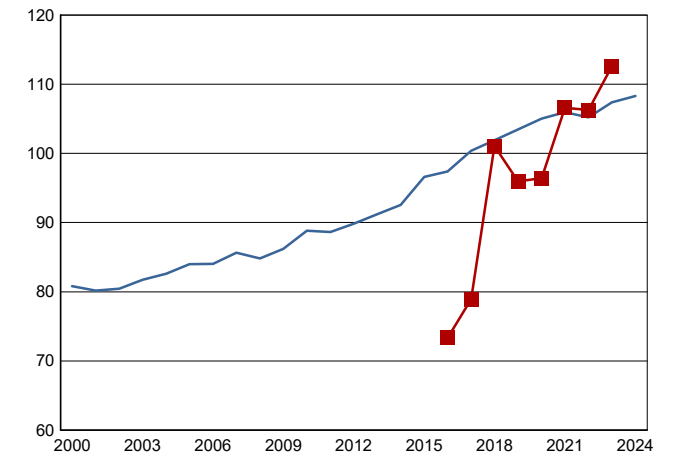
Front Quarter



Centre

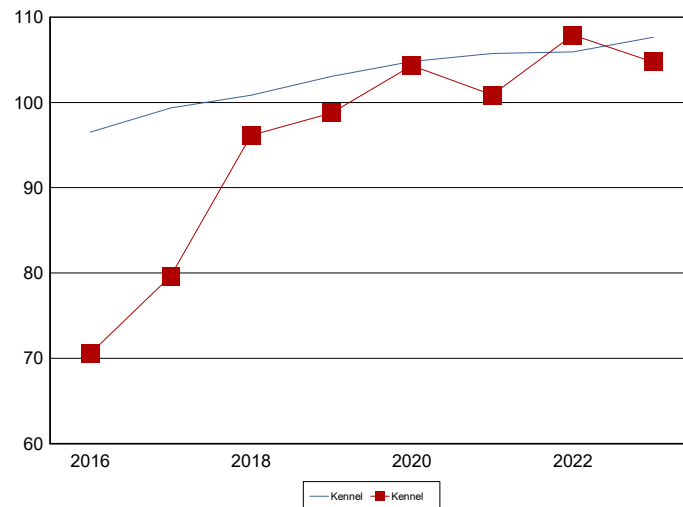


Hind Quarter

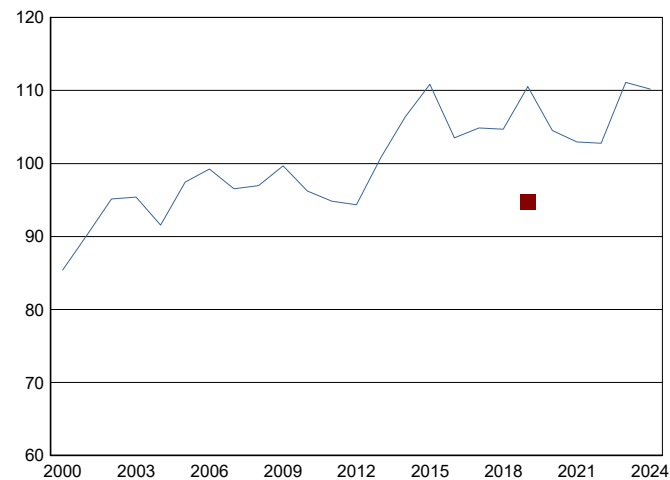


Final Score & Health Traits

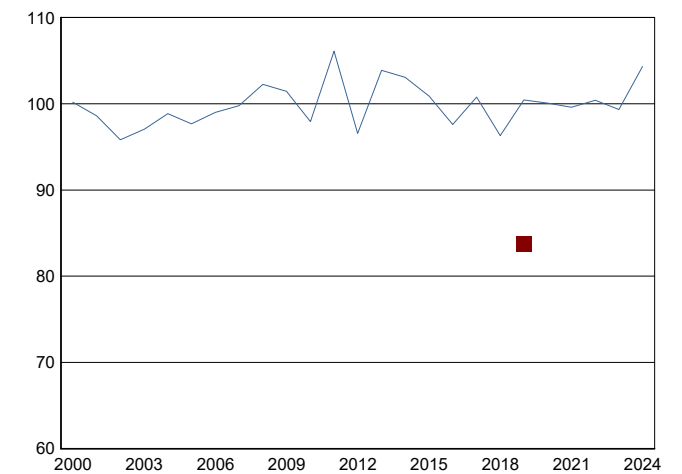
Final Score



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	
NSIZWA DINGANE JUNIOR		NSIZWA DINGANE	13.06	103	91	95	116	114	96	103	107	109	112	115	112	4	1				
	2022	MARVILLOSO INDIRA		5	5	21	47	18	64	46	63	48	50	53	58						
RYGA MAQOMA		DELATRO JANO	6.09	104	104	90	103	100	101	105	102	98	101	102	102						
	2024	RYGA YAYA		5	5	5	28	5	44	28	43	29	32	34	39						
NSIZWA KWANOBAMBA		KADOS TROMPIE	11.51	97	97	113	95		98	105	102	104	107	109	105						
	2024	NSIZWA EVA BRAUN		5	5	16	36		48	35	48	37	39	41	44						

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 Progeny	Litters Litters	Progeny Kennels	Hips Elbows	Progeny with litters
NSIZWA WINIFRED	2020	NSIZWA DINGANE ELEVATION TIKKA	13.80	107 5	80 5	99 39	109 46	113 22	104 63	103 46	116 62	114 47	99 49	102 52	110 57	2	2			
NSIZWA PULA	2021	NSIZWA JOE SLOVO NSIZWA NKOSAZANA	6.22	96 5	99 5	97 34	95 46	92 16	107 64	83 46	98 63	100 47	94 50	102 52	97 58	7	2	2 2		
NSIZWA EVA BRAUN	2022	NSIZWA DINGANE MARVILLOSO HERA	10.09	93 5	89 5	132 35	100 48	99 22	93 65	95 48	91 64	93 49	94 52	99 54	93 59	7	2			
NSIZWA RUTH FIRST	2023	NSIZWA CHE NSIZWA SUE	11.95	103 5	95 5	103 5	106 23	104 5	89 40	91 22	98 39	104 24	102 27	109 29	102 35					
NSIZWA QUEEN MMANTHATISI	2024	KADOS TROMPIE NSIZWA EVA BRAUN	11.51	97 5	97 5	113 16	95 36		98 48	105 35	102 48	104 37	107 39	109 41	105 44					
NSIZWA NTSOAKI	2025	NSIZWA CHE ELEVATION SACHA	8.03	87 5	103 5	101 10	111 26	106 5	90 39	95 26	104 38	106 27	105 29	105 31	105 35					
NSIZWA WINDHOEK	2025	NSIZWA CHE CAMP NOVA QUEEN NZINGA	7.08	104 5	98 5	102 5	98 21	101 5	95 35	92 21	110 35	106 22	101 24	104 27	105 31					
NSIZWA ATISANG	2025	NSIZWA CHE CAMP NOVA QUEEN NZINGA	7.08	104 5	98 5	102 5	98 21	101 5	95 35	92 21	110 35	106 22	101 24	104 27	105 31					

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	
NSIZWA JOE SLOVO	2018	ELEVATION OTTO	5.09	91	101	108	109	108	102	89	95	104	105	116	105	27	4	6		5
		LINJO NANDI		5	17	39	59	35	74	58	73	60	62	64	69					2
NSIZWA DINGANE	2019	ELEVATION DAX	5.09		84	122	104	105	77	88	108	106	95	101	101	33	10	11		9
		LINJO NANDI			22	42	62	40	76	62	75	63	65	67	72					4
KADOS TROMPIE	2020	TARGUS BOM BOEL	8.44	101	105	95	90	114	104	115	112	115	120	120	117	70	16	12		3
		MES LULU V		5	5	40	66	43	78	64	78	66	68	70	74					2
DELATRO JANO	2020	DELATRO X'WINSLO	17.68	111	112	85	115	104	117	117	111	106	106	101	110	34	5	9	1	1
		DELATRO FEMKE		5	5	5	48	5	64	47	63	49	51	54	59					
NSIZWA CHE	2021	NSIZWA JOE SLOVO	6.22	96	99	103	102	91	84	70	92	97	94	103	92	12	5	1		
		NSIZWA NKOSAZANA		5	5	18	44	15	60	44	59	45	47	50	55					

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			
NSIZWA NKOSAZANA		LINJO MOSCOW	6.00	101	97	98	87	77	107	73	96	92	81	85	86	16	3	5			4
	2017	LOWEN KLEIN WITWAL PRINCESS MKABAYI		5	5	46	54	24	72	54	71	55	58	61	66			5			1
MARVILLOSO HERA		CABARET ALLYCAT	4.41	92	95	147	92	97	95	102	93	91	97	93	93	20	5	10			10
	2018	MIDDELPOS BBD STELLA		5	5	51	63	38	77	63	76	64	66	68	72			9			2
ELEVATION TIKKA		GROENBERG BBD RAMBO	5.27	120	76	85	112	121	115	116	116	119	110	107	117	3	1	1			1
	2018	ELEVATION MADUSA		32	38	54	56	43	63	56	62	56	57	58	61			1			1
MARVILLOSO INDIRA		ELEVATION OTTO	14.22	112	99	68	120	122	108	115	115	114	128	130	126	5	2	2			2
	2018	QUREDU MAHATMAH		5	19	44	58	35	72	57	71	58	60	62	67			2			1
NSIZWA SUE		ELEVATION BERZERKER	13.61	110	90	103	110	117	94	113	104	111	110	116	111	1	1				
	2021	NSIZWA SARABI		5	5	30	48	21	65	47	64	48	51	53	59						
RYGA YAYA		EKVONSALIES DYNAMIC	11.91	97	96	95	91	96	86	92	92	90	95	103	93	10	1	3	1	1	
	2021	JACOB ELSA		5	5	5	46	5	65	45	64	47	50	53	59			3			
ELEVATION SACHA		ELEVATION VAATJIE	12.33	78	107	99	121	122	96	121	116	116	116	107	117	11	2	1			1
	2021	ELEVATION MICA		5	29	41	46	23	58	46	57	47	48	50	54			1			1
NSIZWA EVA BRAUN		NSIZWA DINGANE	10.09	93	89	132	100	99	93	95	91	93	94	99	93	7	2				
	2022	MARVILLOSO HERA		5	5	35	48	22	65	48	64	49	52	54	59						
CAMP NOVA QUEEN NZINGA		PAMPOENKRAAL APOCALYPSE	8.97	112	96	101	93	111	106	115	127	116	109	106	117	11	3				
	2022	ROYAL CRESCENT FREYA		5	5	5	34	5	48	33	48	35	37	39	44						

