

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 707302



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.

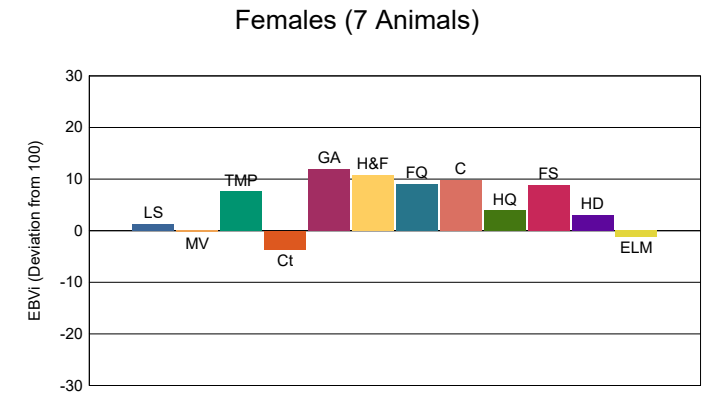
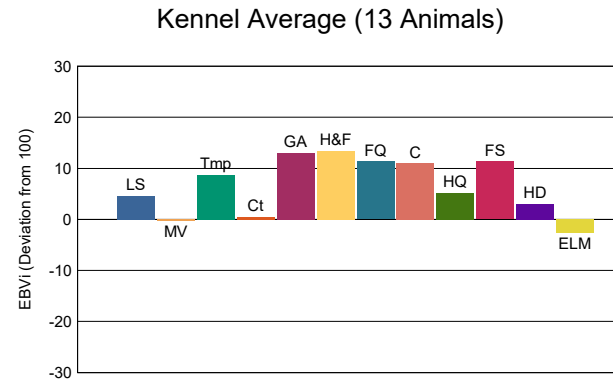
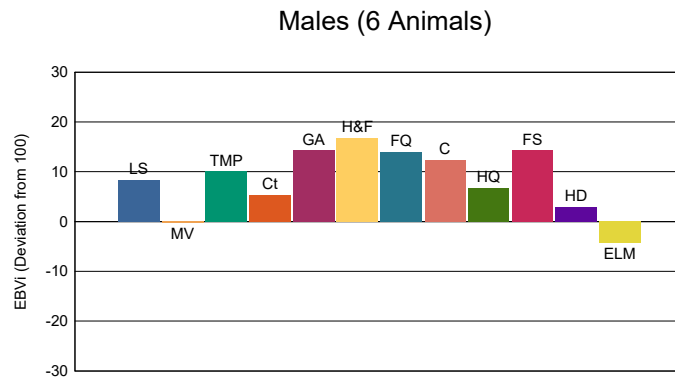
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	105	108	101
Movement (Mv)	100	100	100
Temperament (Tmp)	109	110	108
Coat (Ct)	100	105	96
General Appearance	113	114	112
Head & Face (H&F)	114	117	111
Front Quarter (FQ)	111	114	109
Centre (C)	111	112	110
Hind Quarter (HQ)	105	107	104
Final Score (FS)	111	114	109
Hip Health (HH)	103	103	103
Elbow Health (ELM)	97	96	99

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.

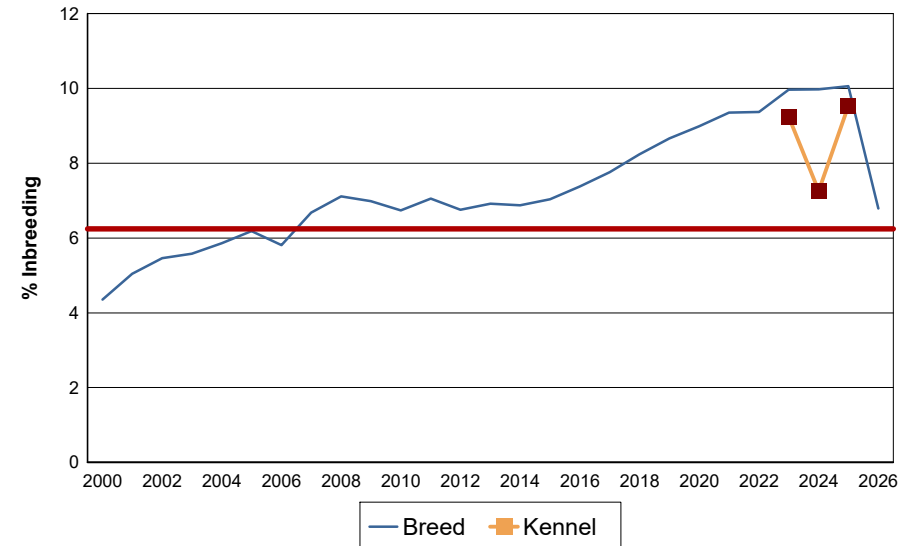
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

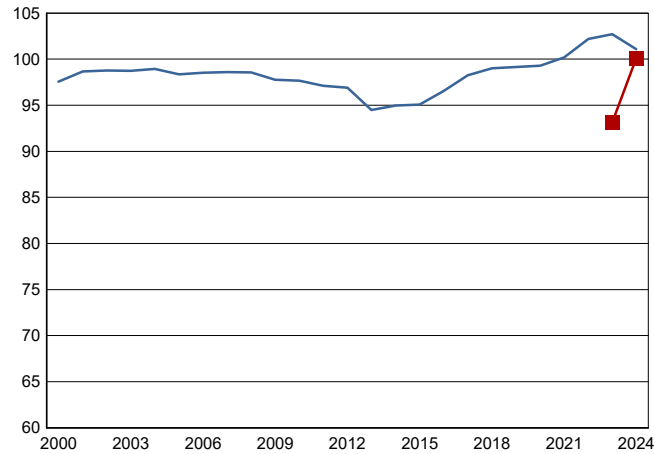


Inbreeding Levels

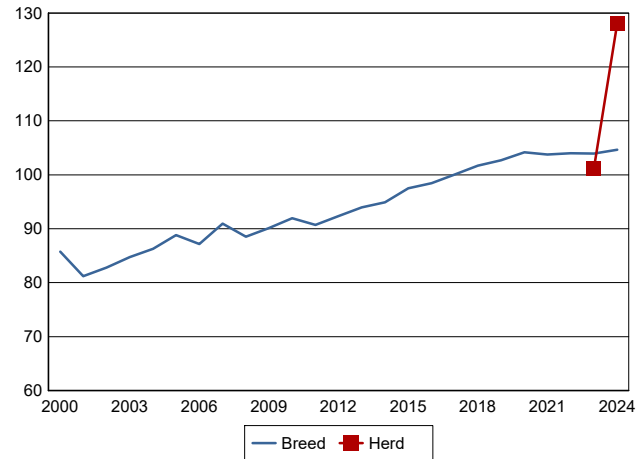
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	13	49007	6	25141	7	23857	9	3371	11	6287
Average Inbreeding	8.94	8.49	8.06	8.46	9.69	8.53	9.32	8.01	10.28	8.00
Number inbred	13	48727	6	24990	7	23728	9	24990	11	23728
Number >6.25% Inbr.	12	30600	5	15537	7	15058	7	15537	10	15058

Genetic Trends

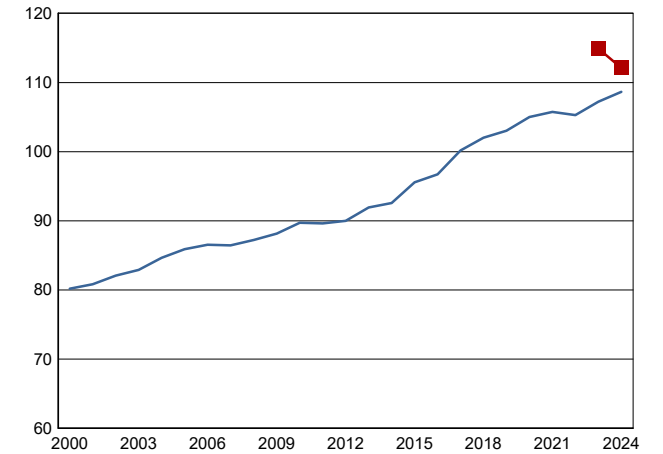
Litter Size



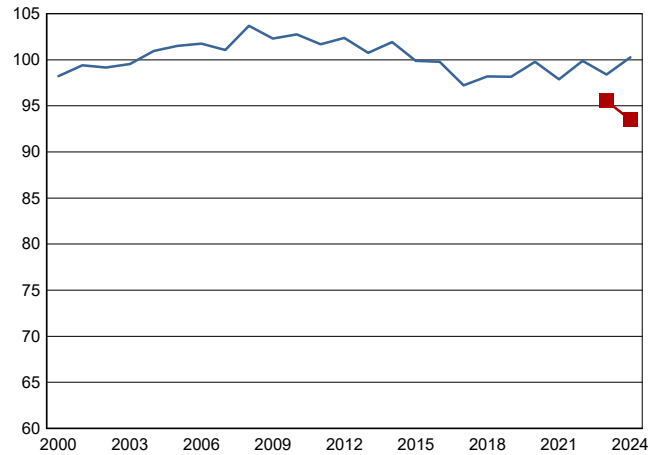
Movement



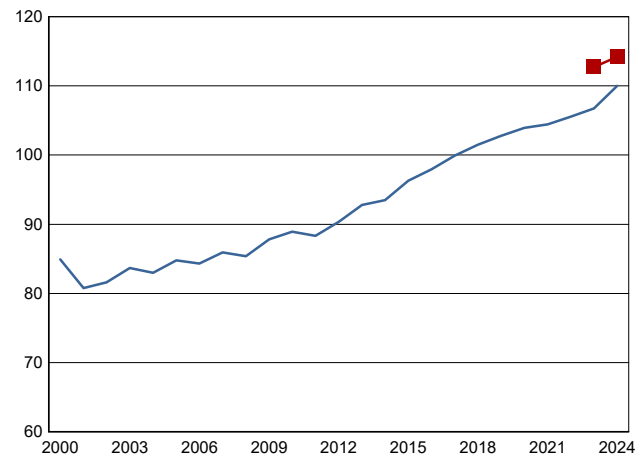
Temperament



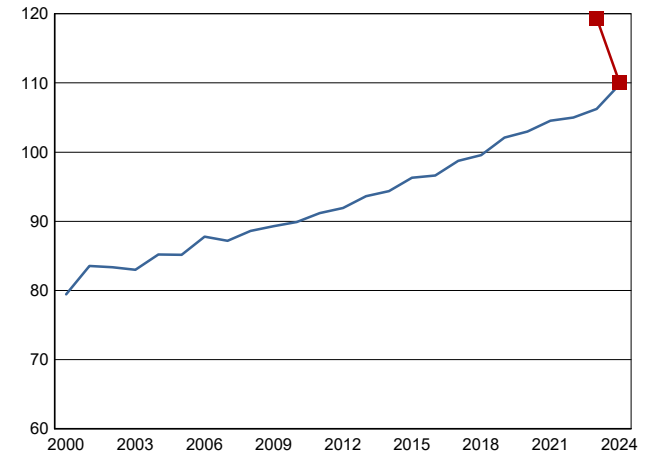
Coat



General Appearance

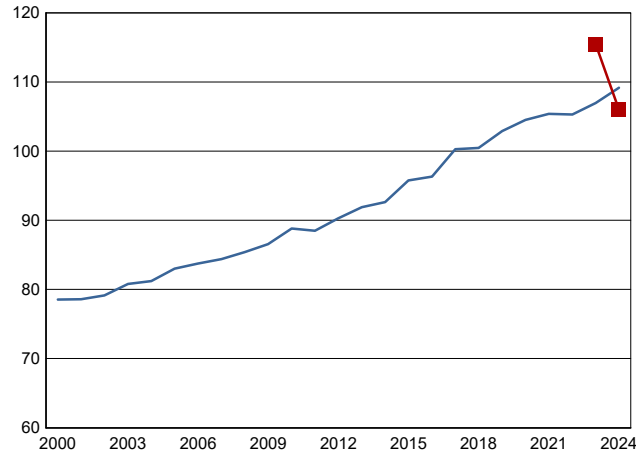


Head & Face

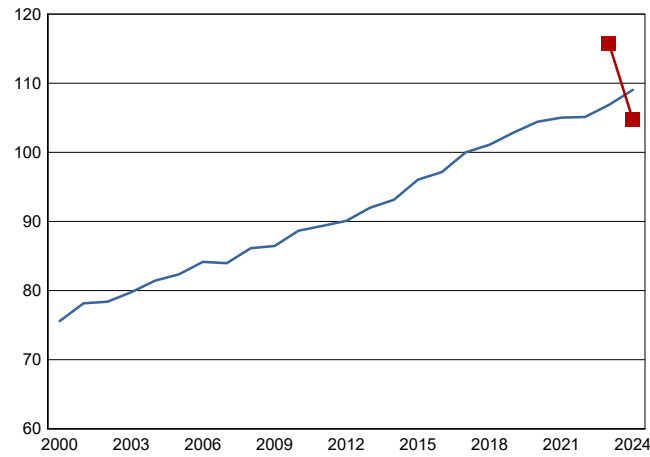


Genetic Trends

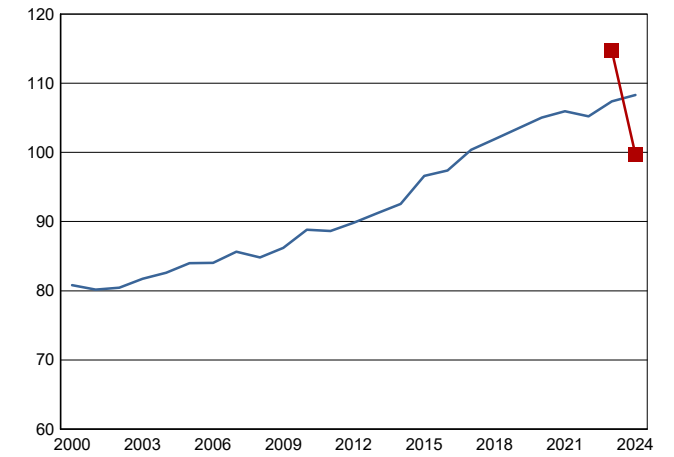
Front Quarter



Centre

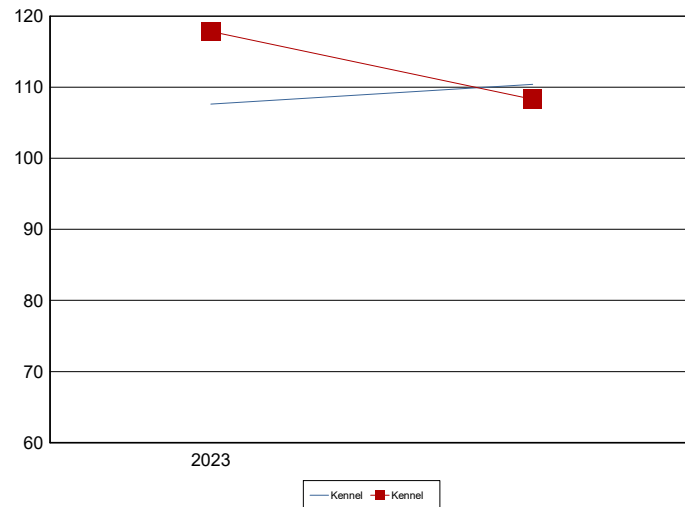


Hind Quarter

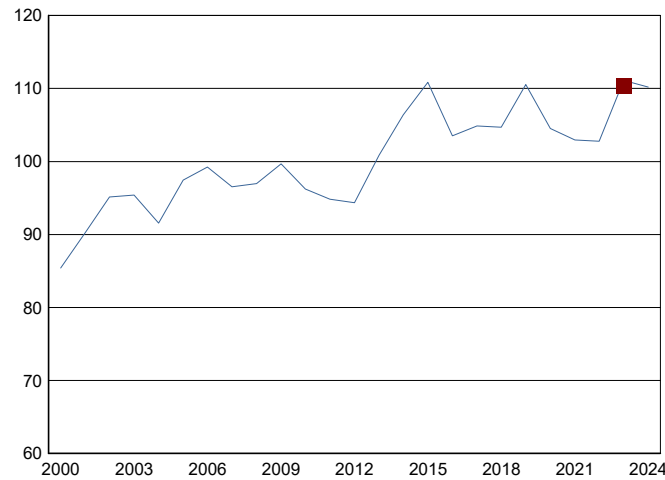


Final Score & Health Traits

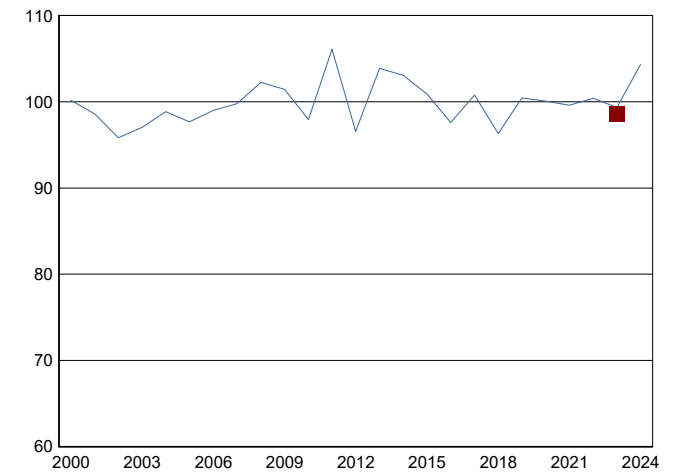
Final Score



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	
AFRIKA ZORPA		AFRIKA GHUNTER	6.00	102	95	113	99	112	114	121	123	124	113	100	117	1	1				
	2021	AFRIKA RALIE 1		5	20	28	45	25	55	45	54	46	47	49	52						
BAKOENA JANNEMAN		AMAYIRHA O'DIN THE BOEL	8.58	108	96	100	87	104	104	109	120	111	110	108	113						
	2025	NOKO MASEDI FIFI		5	5	5	15	5	31	14	31	16	19	22	27						
AMAGOVU THOR		AMAYIRHA O'DIN THE BOEL	9.92	109	100	106	107	112	103	103	110	112	113	121	116						
	2025	CDH EUDORA		5	5	5	29	5	42	28	41	29	31	34	38						
AMAYIRHA BINGO		TAUNG ZILO	7.53	96	93	114	107	111	105			109	110								
	2025	ALI JANDA STELLA		5	5	5	27	5	42		41	28	30	32	37						
AMAYIRHA HOPE		TAUNG ZILO	7.53	96	93	114	107	111	105			109	110								
	2025	ALI JANDA STELLA		5	5	5	27	5	42		41	28	30	32	37						
AMAYIRHA GODFREY (NUK SOO KOW)		JOSMOT JUNIOR	8.79	106	97	104	92	111	101			119	118								
	2025	LAMA AMAYIRHA LIBERTY		5	5	5	24	5	41		40	25	27	30	35						

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	
ALI JANDA STELLA	2022	LANDRE HARDIN	10.47	89	101	101	98	100	103	106	95	97	110	97	99	2	1				
		ALEXANDER BBD MIKA		5	5	5	43	5	62	42	61	44	46	49	55						
JOSMOT LYRA	2024	BOSTU SEKHMET	14.11	96	114	88	59	99	88	112	103	104	106	91	96						
		JOSMOT HELGA		5	5	9	45	10	64	31	62	46	49	52	57						
LAMA AMAYIRHA LIBERTY	2024	BASJAN NELSON	8.13	111	95	111	95	118	94	133	131	127	118	101	120	1	1				
		LAMA DUDU		5	5	5	41	5	61	39	60	42	45	48	54						
AMAYIRHA ECHO	2024	ZADER HUGO	6.41	103	94	100	128	112	94	114	110	106	105	100	108						
		LOMBARD SUPERIOR ECHO		5	5	6	41	5	60	40	59	42	45	48	54						
AMAYIRHA 31	2025	AMAYIRHA O'DIN THE BOEL	10.47	104	84	89	103	109	97	104	117	112	111	112	114						
		AMADWALA NDRAGHETA		5	5	5	22	5	39	21	38	23	26	28	34						
AMADWALA BLESS	2025	AMADWALA BUBHESI	8.31	111	104	114	108	104	97	110	110	106	106	106	108						
		MIGHTY NANDI V		5	5	5	24	5	40	23	39	25	27	30	35						
AMAGOVU LULU	2025	AMAYIRHA O'DIN THE BOEL	9.92	109	100	106	107	112	103	103	110	112	113	121	116						
		CDH EUDORA		5	5	5	29	5	42	28	41	29	31	34	38						

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	
AFRIKA GHUNTER	2018	MES RUBENSTEIN	9.30	93	66	103	113	135	118	138	125	129	122	119	130	227 37	64 43	1 1		32
		DORSLAND EMMA		19	33	49	79	57	88	79	88	79	81	83	86					11
LANDRE HARDIN	2019	LANDRE MAX	5.08	86	109	100	95	97	100	98	91	93	110	97	97	26 3	1 1			1
		TOKARA MYSTIQUE		5	5	25	51	26	67	50	66	52	54	56	61					1
BOSTU SEKHMET	2020	CABARET STRAAT-KAT	9.29	107	124	87	79	107	94	118	109	108	113	94	104	29 3	5 5	1 1		2
		CDH MICCO		20	32	44	61	38	75	60	74	62	64	66	70					2
BASJAN NELSON	2021	AFRIKA DOPPIES	7.00	119	96	131	104	112	117	120	125	125	111	90	115	21 3	5 5			2
		AFRIKA OUNOOI		5	5	29	53	26	69	52	68	54	56	59	64					1
ZADER HUGO	2022	DELATRO HOGAN	6.00	92	91	94	133	116	96	111	113	114	112	107	115	9 2	1 1			
		ZADER JANNET		5	5	5	37	5	52	37	51	38	40	43	48					
AMAYIRHA O'DIN THE BOEL	2023	SA BRIGHT BUSTER	7.73	110	99	95	92	113	95	109	125	118	117	117	120	23 3				
		LOMBARD SUPERIOR LIBERTY		5	5	5	42	7	59	41	58	43	45	48	53					
JOSMOT JUNIOR	2023	JOSMOT VANDAM	16.63	101	99	96	90	105	107	102	112	111	118	112	113	21 4				
		TREBLA EMMA		5	5	5	45	5	63	44	62	46	49	52	57					
AMADWALA BUBHESI	2024	KADIMA CARVELLO	10.87	101	74	102	107	105	102	101	111	111	103	108	110	18 1				
		ELEVATION AMALIA		5	5	17	45	13	62	43	61	45	48	51	56					
TAUNG ZILO	2024	WOEKER BBD MATEKWA	12.00	104	85	126	115	122	107	128	131	121	111	107	123	7 3				
		NSIZWA MPIZA		5	5	11	49	20	66	49	65	50	52	55	60					

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	
ALEXANDER BBD MIKA	2017	CABARET SIMBA 2	17.99	92	94	102	95	95	105	107	94	95	98	90	94	9	2	3			3
		HOREB ISABELLA		5	5	37	47	15	61	46	60	48	50	52	56			3			1
AFRIKA RALIE 1	2019	LINGA LONGA HARLEY 3	6.37	112	125	124	85	88	110	104	121	119	103	82	104	16	2	5			2
		AFRIKA MATILDA		37	54	49	53	27	67	52	66	54	56	58	62			2			1
LOMBARD SUPERIOR ECHO	2021	WOEKER BBD JAPIE	10.32	113	97	106	115	107	103	110	117	105	105	99	110	20	5	2			
		LOMBARD SUPERIOR ZARAH		5	5	44	51	27	64	50	64	52	53	56	60			2			
ALI JANDA STELLA	2022	LANDRE HARDIN	10.47	89	101	101	98	100	103	106	95	97	110	97	99	2	1				
		ALEXANDER BBD MIKA		5	5	5	43	5	62	42	61	44	46	49	55						
CDH EUDORA	2022	CDH KAROO	11.08	108	101	116	122	110	111	97	96	107	109	125	112	21	2	4			
		ALESSANDRO JANI		5	5	33	54	33	67	54	66	55	57	59	63			4			
MIGHTY NANDI V	2022	MIGHTY TAU	5.13	121	134	127	109	103	91	119	108	102	109	103	106	17	1				
		KLEIN SANDFONTEIN OLIVIA		5	5	32	47	18	64	46	63	48	50	53	58						
LAMA DUDU	2022	ROKAFELA KABAKA	8.63	102	93	92	86	120	80	142	132	122	120	108	121	9	1	1			1
		MIDDELPOS BBD MOLLY		5	5	5	40	5	60	40	58	41	44	47	53			1			1
NOKO MASEDI FIFI	2022	DTK TOXIC	9.63	106	94	105	83	96	114	109	114	104	102	99	106	5					
		NOKO MASEDI BELLA		5	5	5	23	5	38	23	37	24	26	29	33						
JOSMOT HELGA	2023	JOSMOT BIGBOY	14.15	85	104	89	69	96	80	99	82	94	97	97	86	1	1	1			
		JOSMOT KOOLKAT 2		5	5	19	48	16	67	45	65	49	52	55	60			1			
AMADWALA NDRAGHETA	2023	ELEVATION LOVERBOY	11.24	97	69	82	114	105	98	99	109	105	104	107	108	5	1				
		BBS VERONIKA		5	5	5	43	5	62	42	61	44	46	49	56						
LAMA AMAYIRHA LIBERTY	2024	BASJAN NELSON	8.13	111	95	111	95	118	94	133	131	127	118	101	120	1	1				
		LAMA DUDU		5	5	5	41	5	61	39	60	42	45	48	54						

