

Boerboel Genetic Evaluation

SA Stud Book
February 2026

MR M.K. MANU

PO BOX LG512

LEGON

ACCRA

GHANA



Kennel Number: 697321



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.

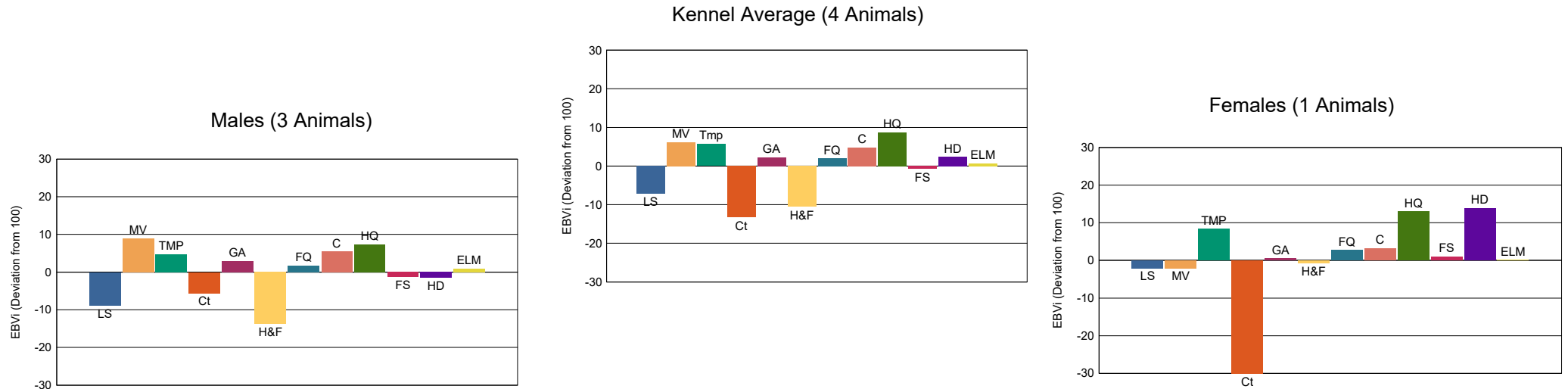
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	93	91	98
Movement (Mv)	106	109	98
Temperament (Tmp)	106	105	108
Coat (Ct)	87	94	64
General Appearance	102	103	101
Head & Face (H&F)	90	86	99
Front Quarter (FQ)	102	102	103
Centre (C)	105	105	103
Hind Quarter (HQ)	109	107	113
Final Score (FS)	99	99	101
Hip Health (HH)	102	99	114
Elbow Health (ELM)	101	101	100

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.

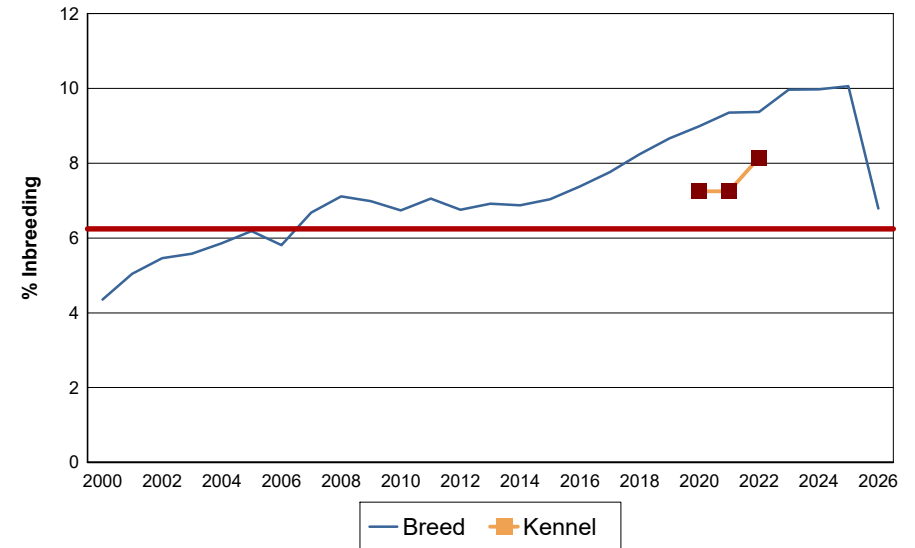
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

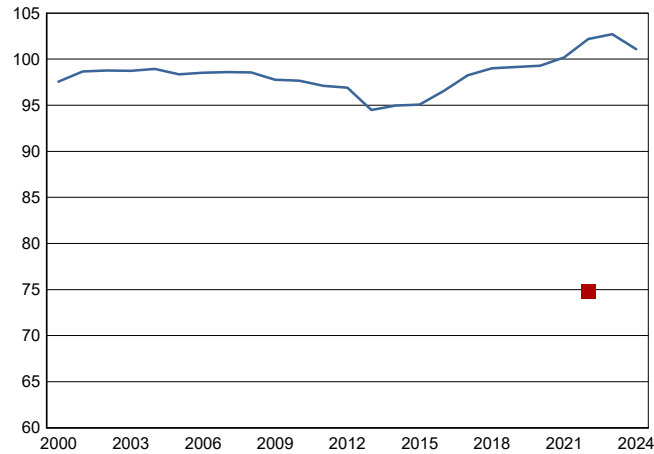


Inbreeding Levels

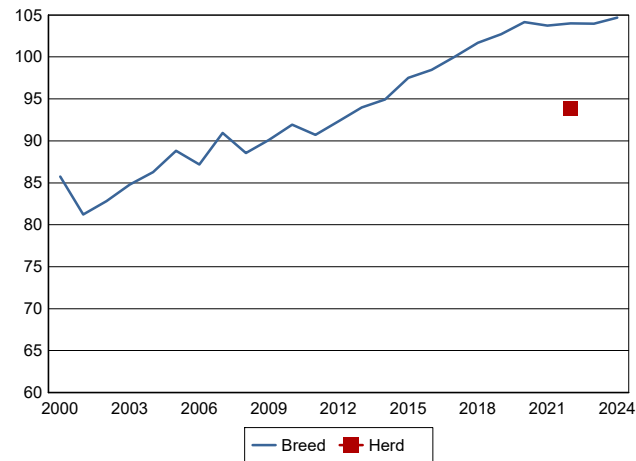
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	4	49007	3	25141	1	23857	4	3371	4	6287
Average Inbreeding	9.12	8.49	7.55	8.46	13.82	8.53	12.04	8.01	5.79	8.00
Number inbred	4	48727	3	24990	1	23728	4	24990	4	23728
Number >6.25% Inbr.	4	30600	3	15537	1	15058	4	15537	2	15058

Genetic Trends

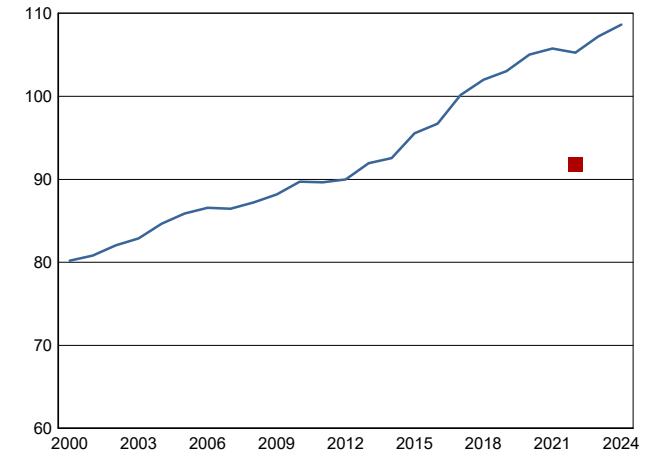
Litter Size



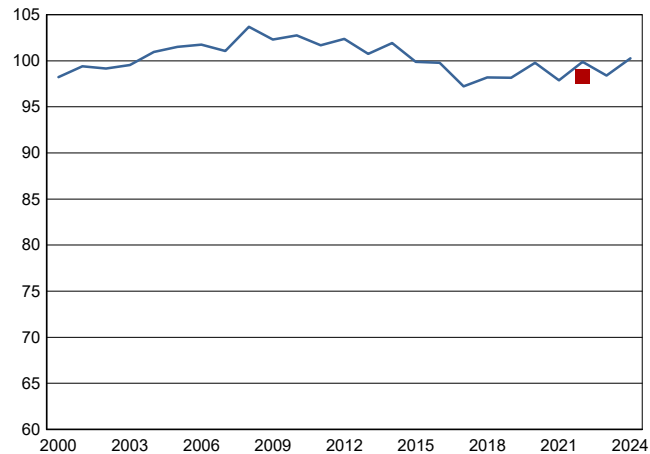
Movement



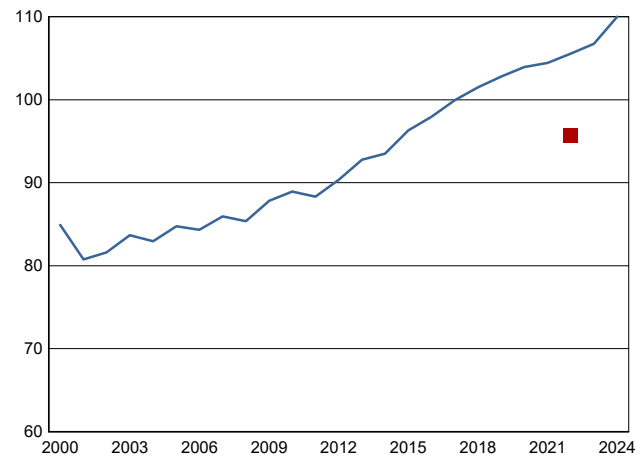
Temperament



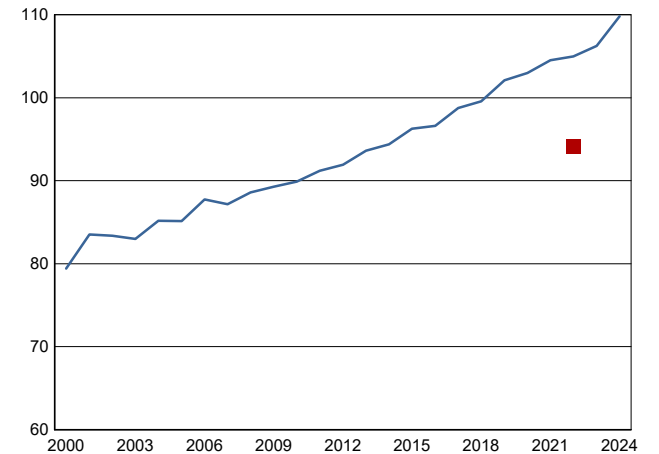
Coat



General Appearance

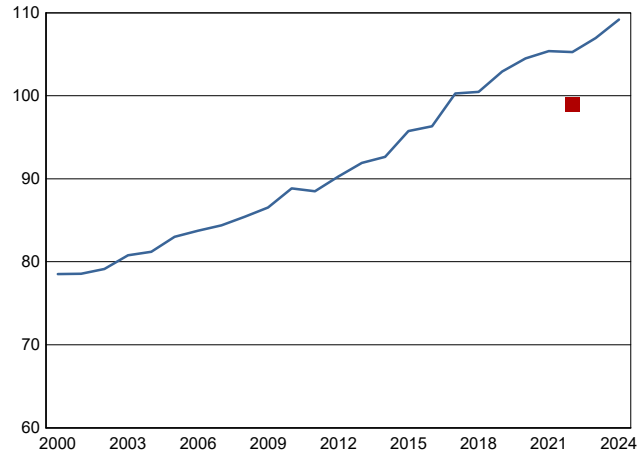


Head & Face

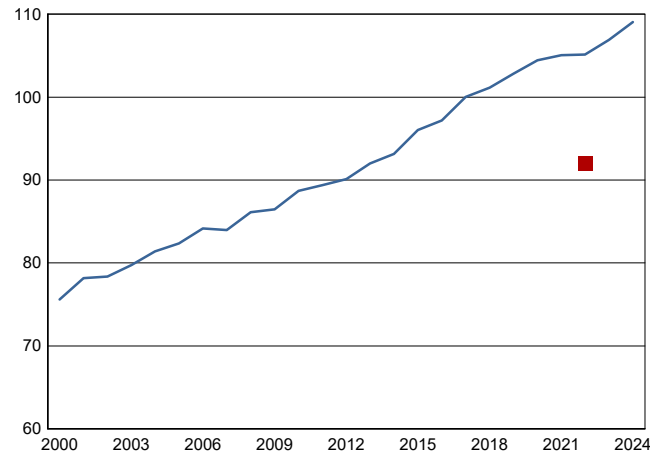


Genetic Trends

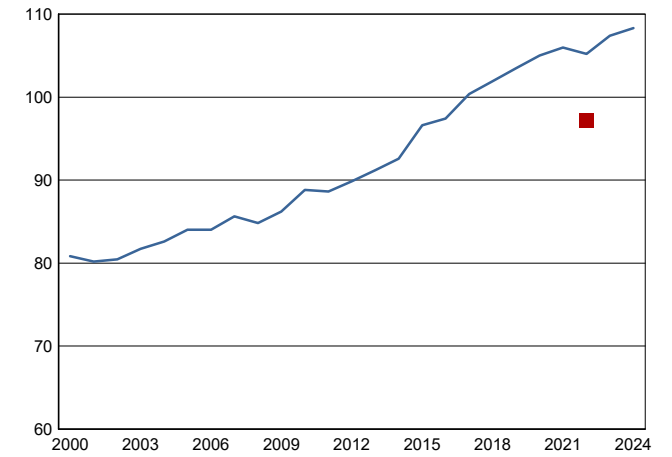
Front Quarter



Centre

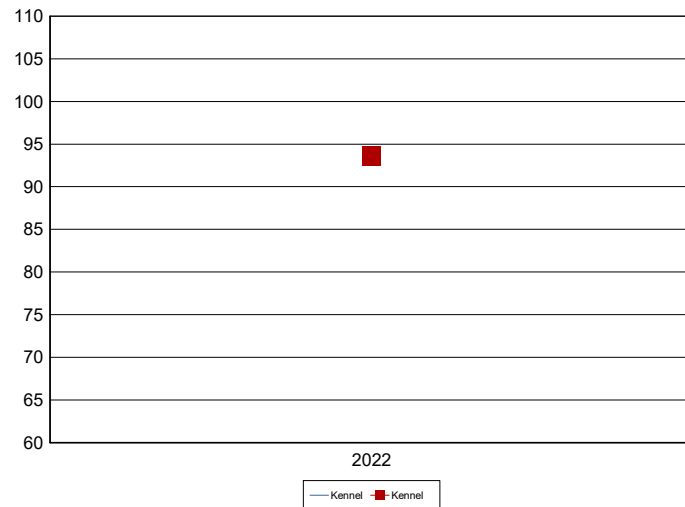


Hind Quarter

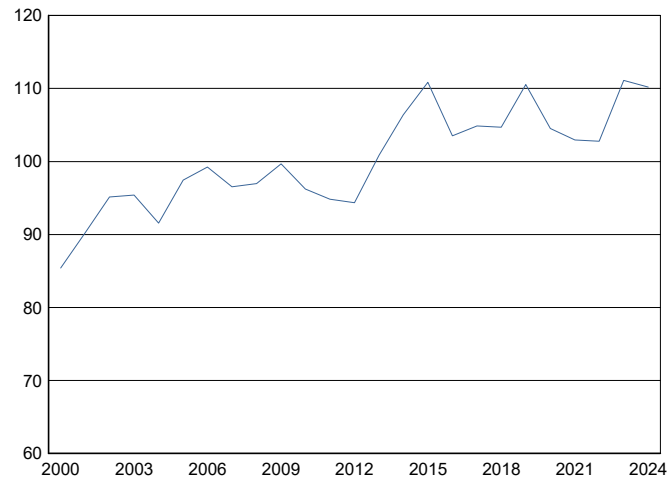


Final Score & Health Traits

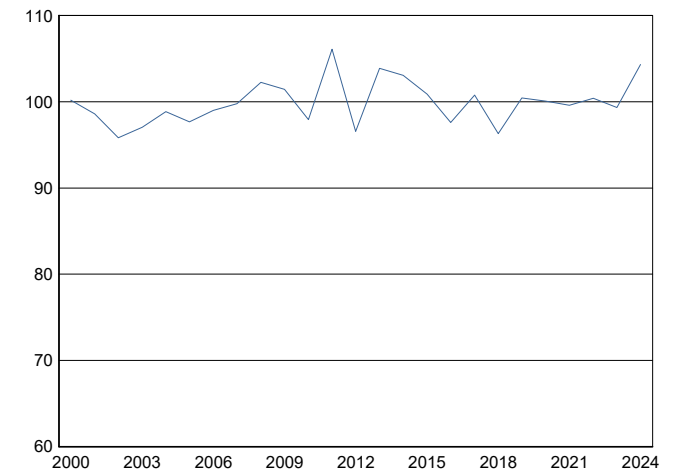
Final Score



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	
ALEXANDER BBD TANK 5		CABARET TANK	8.52	96	100	84	95	88	98	98	76	88	93	100	86	18	3	3			1
	2018	ALEXANDER BBD MONIQUE		5	5	21	46	16	63	45	62	47	49	52	57			2			1
MMK CAPOCAPO		ALEXANDER BBD TANK 5	7.25	102	104	93	111	109	97	107	90	106	109	110	103						
	2020	ROCKVIEW LADY IN RED		5	5	5	23	5	37	23	36	24	26	28	33						
ROCKVIEW ICEMAN		KLEIN SANDFONTEIN DEJAVU	6.86	98	99	96	121	118	88	104	92	111	114	112	107						
	2021	ROCKVIEW MONA		5	5	18	28	5	42	28	41	29	31	33	37						

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	
MMK APPLE		MES UNO	13.82	114	100	98	98	108	64	101	99	103	103	113	101						
	2022	RALZUCA QUEEN OF THE NORTH		5	5	17	32	5	42	32	41	33	34	36	39						

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	
KLEIN SANDFONTEIN DEJAVU	2015	KLEIN SANDFONTEIN MATANA	8.05	97	117	84	124	128	75	115	85	115	132	114	108	55 10	12			11
		KLEIN SANDFONTEIN CHILLY		10	20	44	60	33	75	59	74	60	63	65	70					2
CABARET TANK	2016	MES CABARET TOM	13.81	95	98	96	88	91	57	98	64	82	94	107	79	22 6	8			6
		CABARET MISS UNIVERSE		5	5	34	55	31	68	55	68	56	58	60	64					2
ALEXANDER BBD TANK 5	2018	CABARET TANK	8.52	96	100	84	95	88	98	98	76	88	93	100	86	18 3	3			1
		ALEXANDER BBD MONIQUE		5	5	21	46	16	63	45	62	47	49	52	57					1
MES UNO	2019	GROENBERG BBD RAMBO	17.77	127	104	108	100	112	102	113	104	111	109	117	111	9 3	2			2
		MES MAXI		18	32	50	58	45	64	58	64	58	59	60	62					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- r ament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
ALEXANDER BBD MONIQUE	2016	KLEIN SANDFONTEIN BULLET	4.85	97	101	78	99	95	98	95	96	101	97	95	95	12	1	6			4
		ALEXANDER BBD ANGEL		5	5	42	56	31	71	55	70	57	59	61	66			6			1
ROCKVIEW MONA	2019	AUGUSTYN COCO	6.30	100	82	108	119	107	101	94	100	108	96	111	105	15	3				
		FONT BOERBOELS MOON CHILD		5	5	43	39	5	56	39	55	40	42	45	50						
ROCKVIEW LADY IN RED	2019	KLEIN SANDFONTEIN DEJAVU	5.46	107	108	102	128	129	96	115	104	125	126	121	120	11	2				
		ROCKVIEW ASKA		5	5	29	45	21	61	45	60	46	48	51	55						
RALZUCA QUEEN OF THE NORTH	2020	VOLSPOED BAKKIES1	6.53	101	96	88	96	105	26	88	95	94	97	108	91	1	1				
		ABSOLUTE ZOLSHKA		5	5	28	48	21	63	47	62	48	51	53	58						

