

Boerboel Genetic Evaluation

SA Stud Book

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Kennel Number: 611334



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.

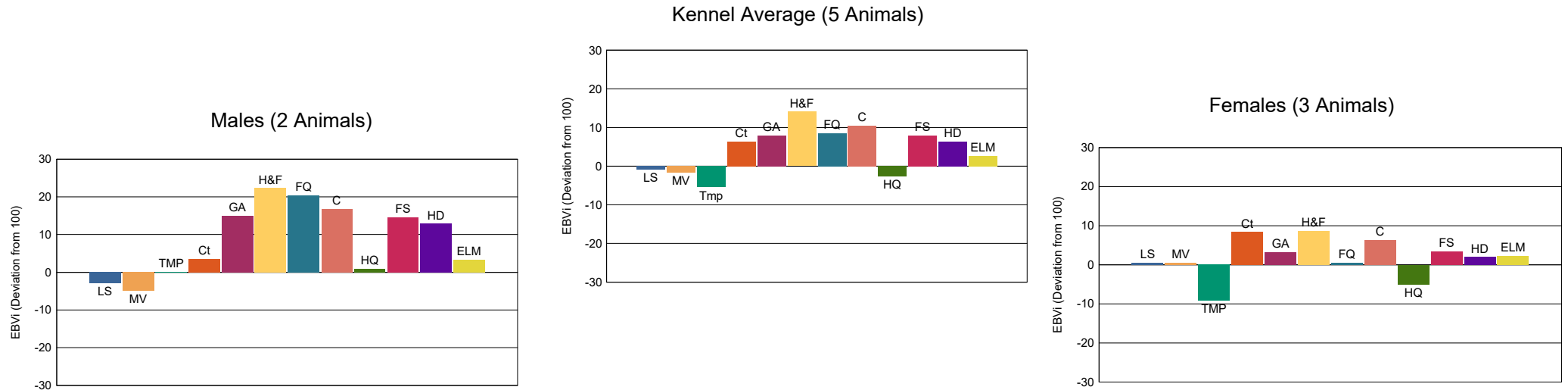
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	99	97	101
Movement (Mv)	98	95	101
Temperament (Tmp)	95	100	91
Coat (Ct)	106	103	108
General Appearance	108	115	103
Head & Face (H&F)	114	122	109
Front Quarter (FQ)	108	120	101
Centre (C)	111	117	106
Hind Quarter (HQ)	97	101	95
Final Score (FS)	108	115	103
Hip Health (HH)	106	113	102
Elbow Health (ELM)	103	103	102

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.

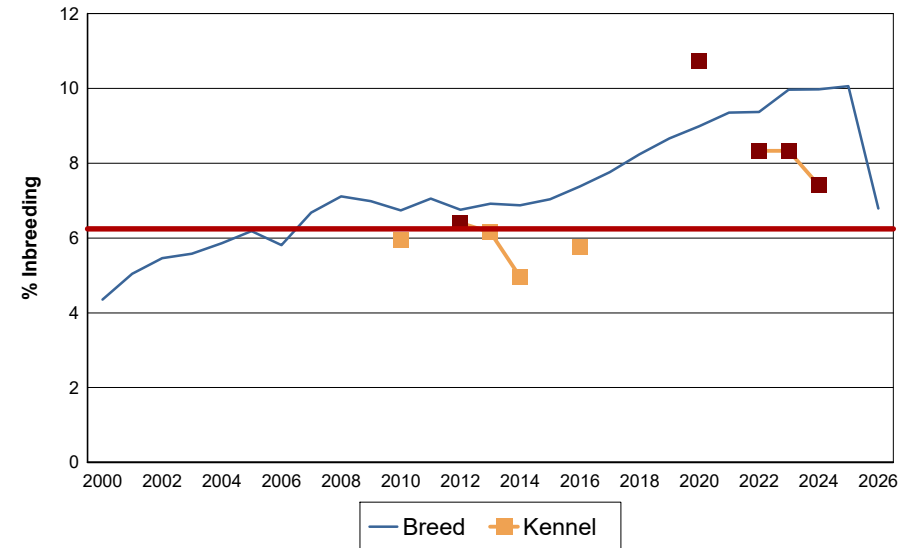
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

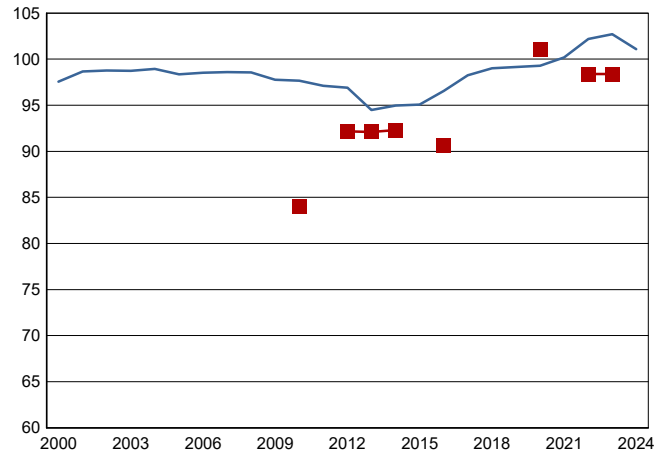


Inbreeding Levels

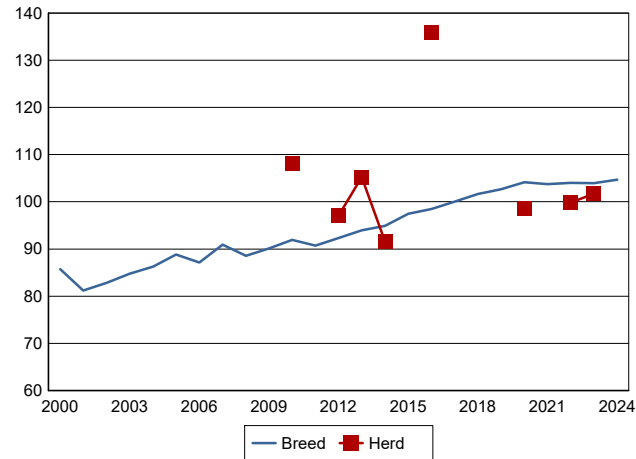
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	5	49007	2	25141	3	23857	4	3371	4	6287
Average Inbreeding	9.70	8.49	11.71	8.46	8.36	8.53	9.33	8.01	8.66	8.00
Number inbred	5	48727	2	24990	3	23728	4	24990	4	23728
Number >6.25% Inbr.	4	30600	2	15537	2	15058	3	15537	3	15058

Genetic Trends

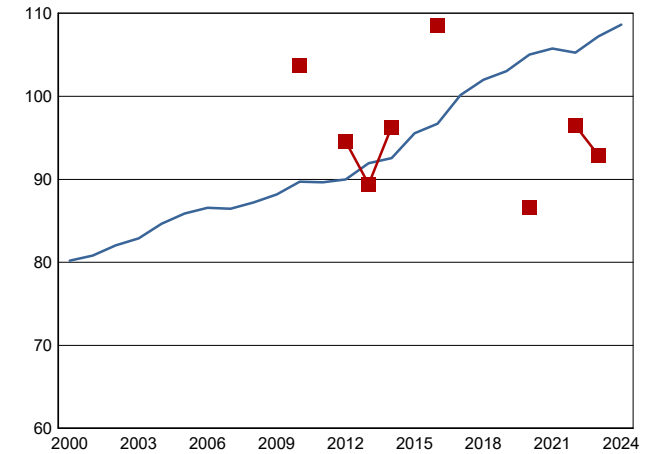
Litter Size



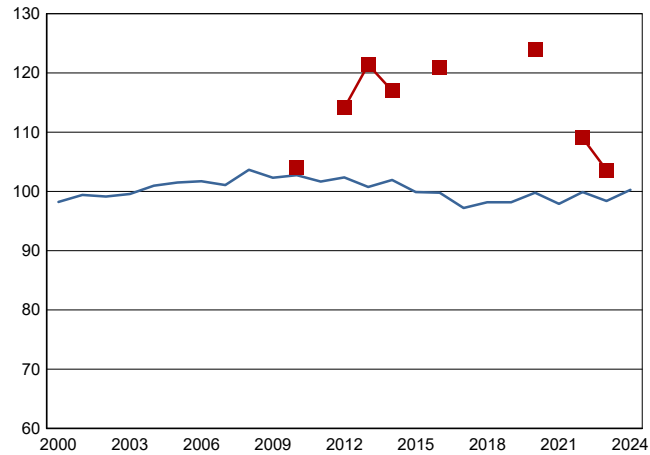
Movement



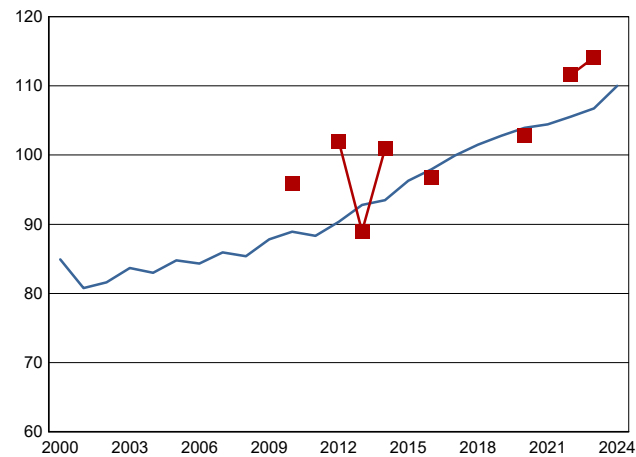
Temperament



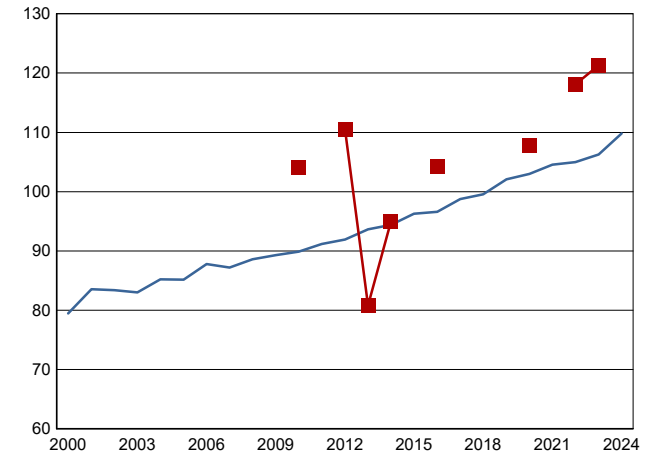
Coat



General Appearance

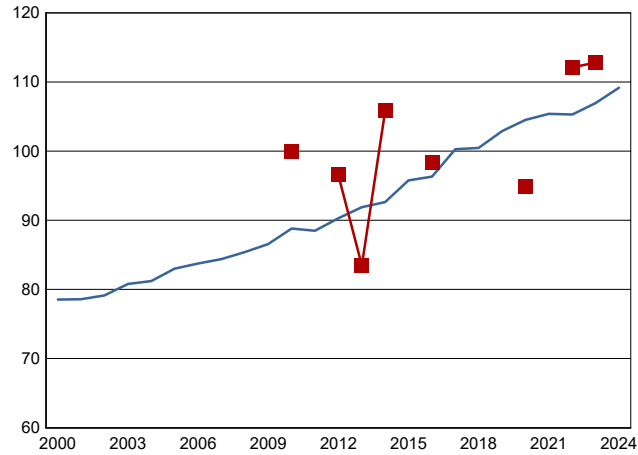


Head & Face

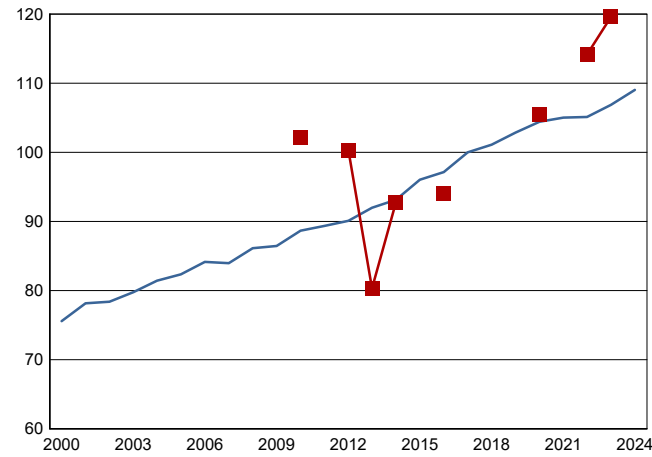


Genetic Trends

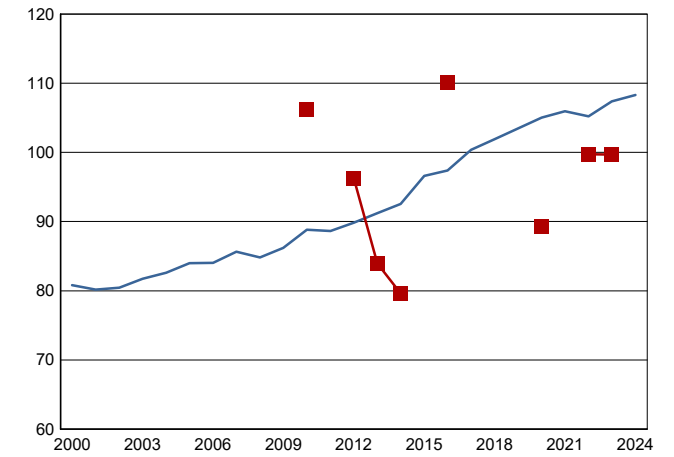
Front Quarter



Centre

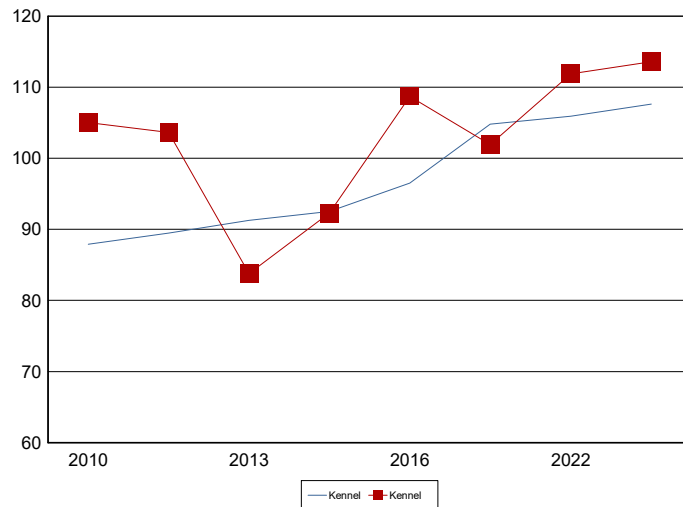


Hind Quarter

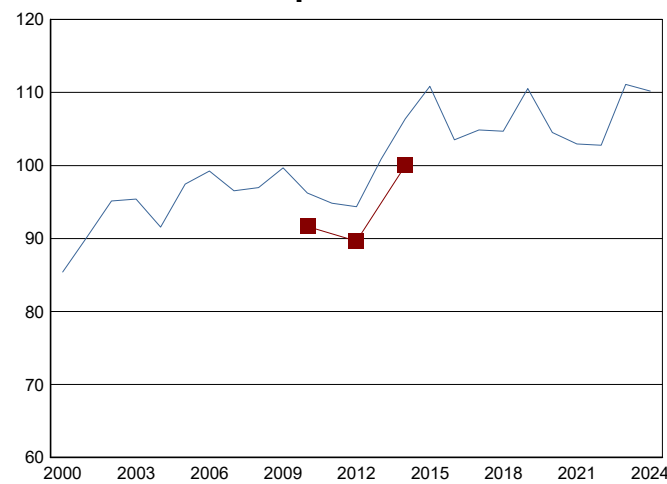


Final Score & Health Traits

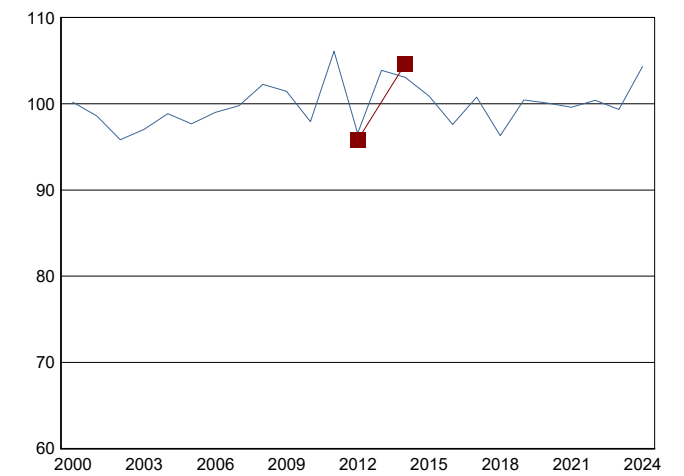
Final Score



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	
BLACK IRON ROGAN		KLEIN SANDFONTEIN JUDGE	15.10	116	102	96	96	107	99	119	119	127	119	107	116	26	4	7			2
	2020	KLEIN SANDFONTEIN BILHAH		5	5	23	50	24	65	50	64	51	53	55	60			6			1
BLITZKRIEG SPENCER		BLACK IRON ROGAN	8.33	110	104	98	94	94	108	111	126	114	115	95	113	14	1				
	2022	BLITZKRIEG SARAH		5	5	5	26	5	46	26	44	27	30	33	39						

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.	Movement	Temperament	Coat	General Appear.	Head & Face	Front Quarter	Centre	Hind Quarter	Final Score	Progeny	Litters	Progeny Kennels	Hips	Elbows	
BLITZKRIEG SARAH		BALKAN ZIKO	10.73	104	106	101	104	86	119	104	118	97	109	93	107	26	4	7			2
	2020	GOLDEN STATE 24 KARAT		5	5	5	32	5	55	32	54	34	37	40	47			6			1
BLITZKRIEG NAHLA		BLACK IRON ROGAN	8.33	110	104	98	104	98	106	110	108	108	110	97	106	2	1				
	2022	BLITZKRIEG SARAH		5	5	5	26	5	46	26	44	27	30	33	39						
BLITZKRIEG HALO		QUOVADIS COMMANDER	6.03	92	96	102	95	89	100	96	100	96	100	95	97						
	2024	BLITZKRIEG NAHLA		5	5	5	5	5	24	5	23	5	6	11	18						

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	
QUOVADIS COMMANDER	2012	KLEIN SANDFONTEIN TOTEM AT QUOVADIS	2.20		88	106	85	80	94	82	91	85	90	93	87	30	5	3		
		MIZPAH BBD MINNIE			5	23	18	5	32	17	31	19	21	24	28					
BALKAN ZIKO	2013	BALKAN MARKO	12.99	110	100	100	92	87	133	104	110	93	98	85	100	2	1	2		1
		BALKAN KALISI		5	5	5	18	5	38	17	37	19	23	26	32					
KLEIN SANDFONTEIN JUDGE	2016	KLEIN SANDFONTEIN HUEY	7.01	132	96	117	101	121	107	119	108	147	123	109	118	290	35	65	9	11
		KLEIN SANDFONTEIN ASARA		41	54	52	77	56	87	76	86	77	79	81	84					
BLACK IRON ROGAN	2020	KLEIN SANDFONTEIN JUDGE	15.10	116	102	96	96	107	99	119	119	127	119	107	116	26	4	7		2
		KLEIN SANDFONTEIN BILHAH		5	5	23	50	24	65	50	64	51	53	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	Sire	%	Hips	Elbows	Litter Size	Move-	Tempe-r	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	
	Dam		Acc.	Acc.	Acc.	ment	ament		Appear.	Face	Quarter		Quarter	Score			Kennels			
KLEIN SANDFONTEIN BILHAH	KLEIN SANDFONTEIN BENJI	10.42	99	109	74	96	95	105	107	109	104	103	104	105	7	1	2			1
	2018		KLEIN SANDFONTEIN EDEN	18	15	47	51	32	61	50	60	51	53	54			57			
GOLDEN STATE 24 KARAT	KLEIN SANDFONTEIN JOURNEY	5.17	99	112	102	113	95	112	98	98	96	107	100	102	2	1	2			1
	2019		BLITZKRIEG LILA 1	5	11	20	47	19	62	46	61	48	50	53			57			
BLITZKRIEG SARAH	BALKAN ZIKO	10.73	104	106	101	104	86	119	104	118	97	109	93	107	26	4	7			2
	2020		GOLDEN STATE 24 KARAT	5	5	5	32	5	55	32	54	34	37	40			47			
BLITZKRIEG NAHLA	BLACK IRON ROGAN	8.33	110	104	98	104	98	106	110	108	108	110	97	106	2	1				
	2022		BLITZKRIEG SARAH	5	5	5	26	5	46	26	44	27	30	33			39			

