

Boerboel Genetic Evaluation

SA Stud Book

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Kennel Number: 715865



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.

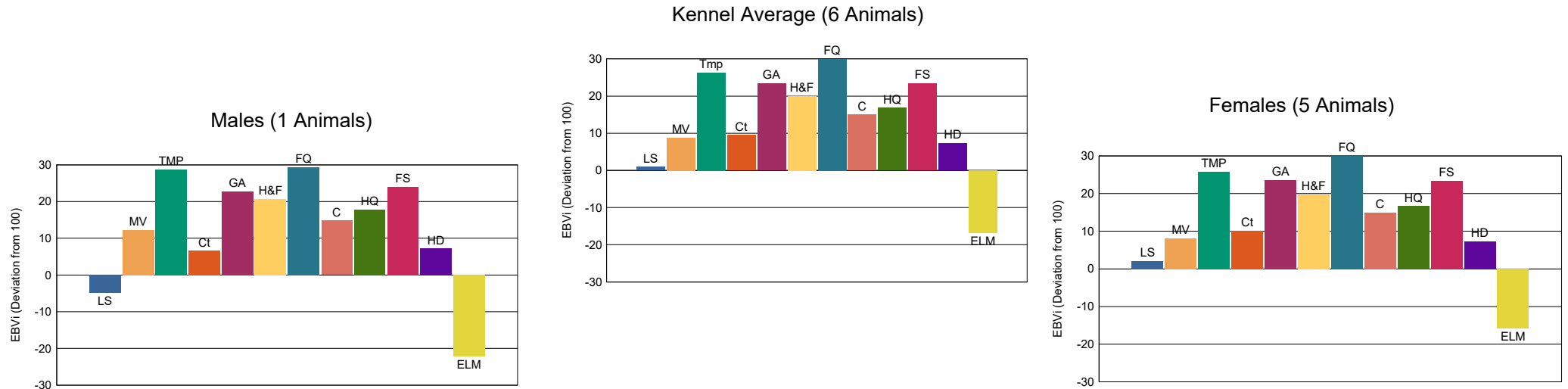
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	101	95	102
Movement (Mv)	109	112	108
Temperament (Tmp)	126	129	126
Coat (Ct)	109	107	110
General Appearance	123	123	124
Head & Face (H&F)	120	121	120
Front Quarter (FQ)	130	129	130
Centre (C)	115	115	115
Hind Quarter (HQ)	117	118	117
Final Score (FS)	123	124	123
Hip Health (HH)	107	107	107
Elbow Health (ELM)	83	78	84

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.

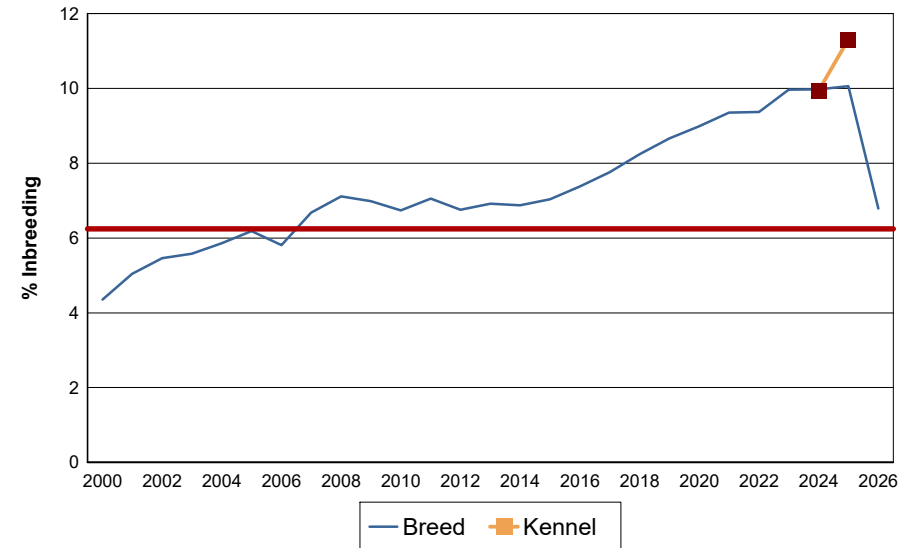
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

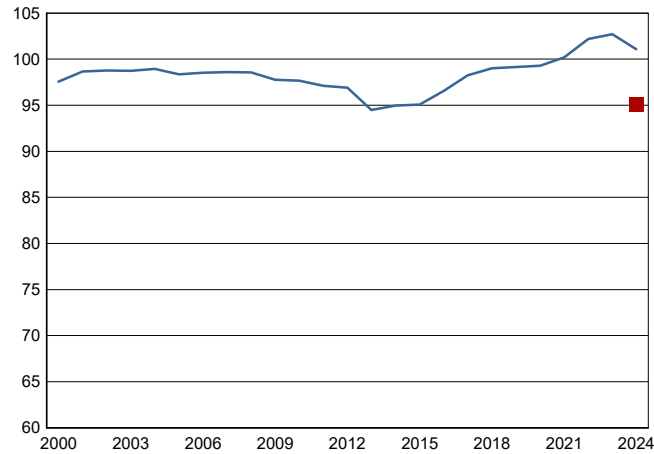


Inbreeding Levels

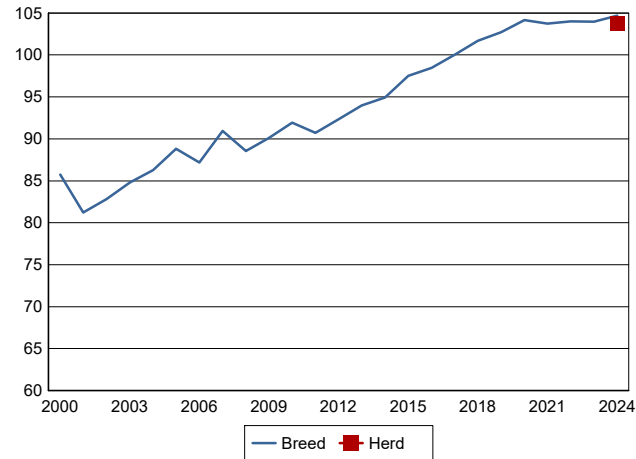
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	6	49007	1	25141	5	23857	3	3371	2	6287
Average Inbreeding	10.81	8.49	9.94	8.46	10.98	8.53	9.25	8.01	11.75	8.00
Number inbred	6	48727	1	24990	5	23728	3	24990	2	23728
Number >6.25% Inbr.	6	30600	1	15537	5	15058	2	15537	2	15058

Genetic Trends

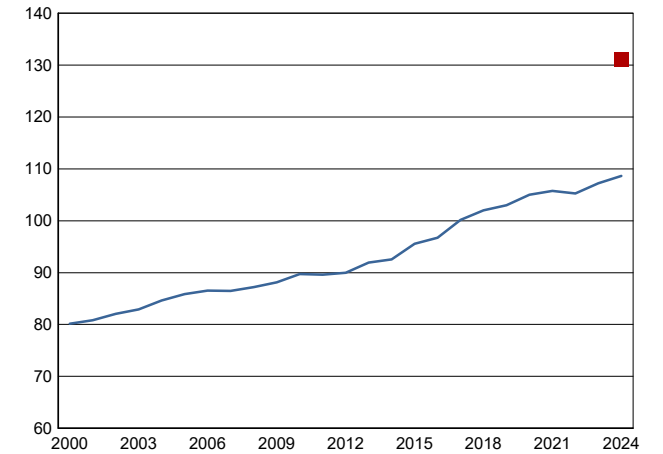
Litter Size



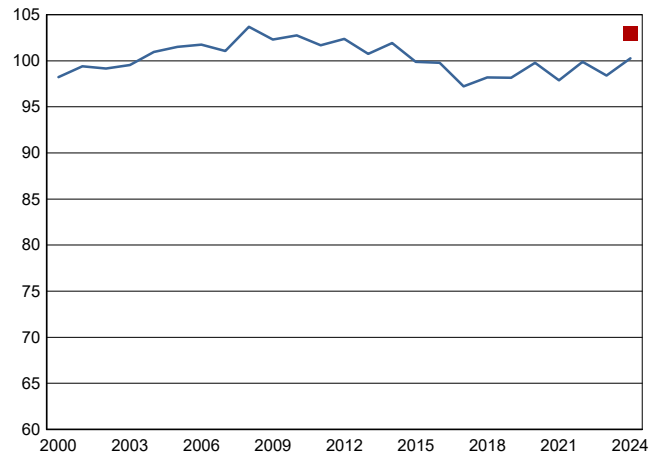
Movement



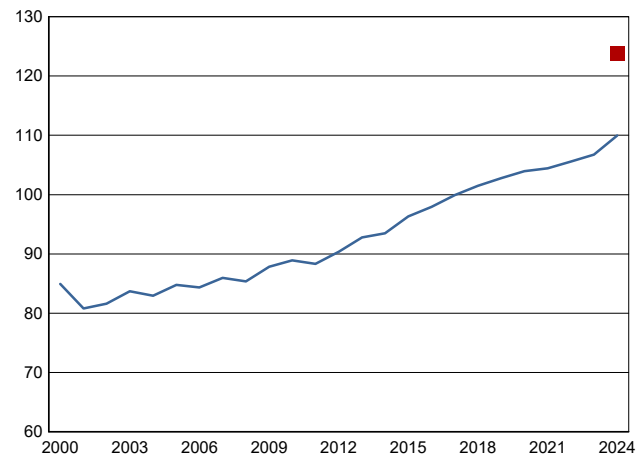
Temperament



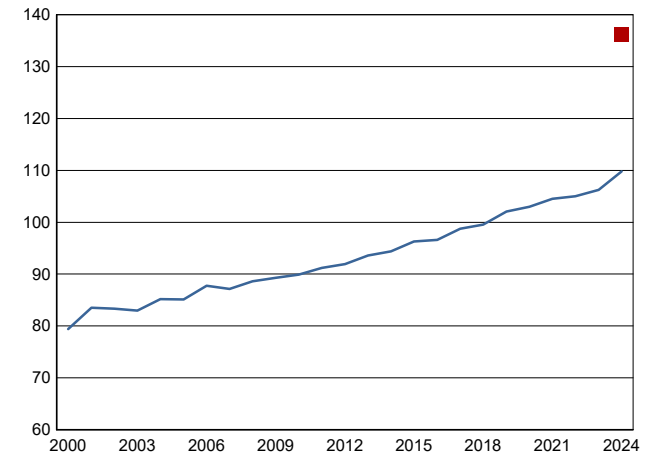
Coat



General Appearance

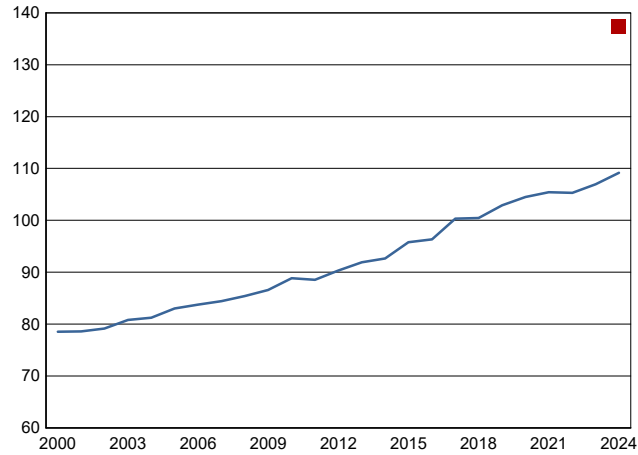


Head & Face

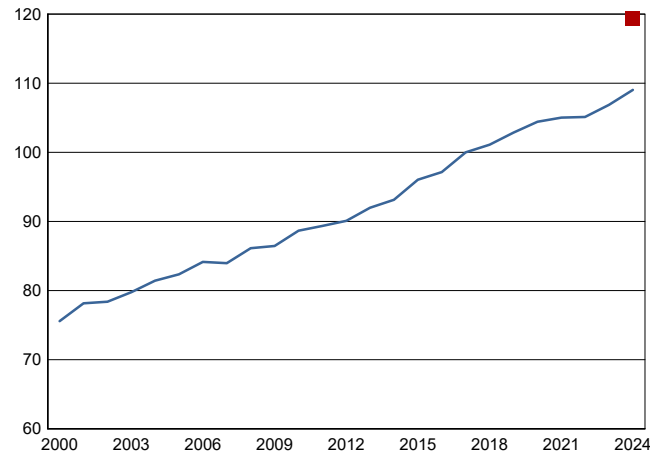


Genetic Trends

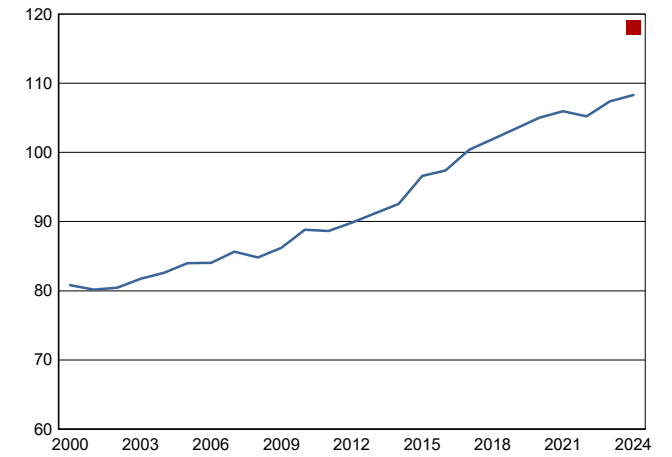
Front Quarter



Centre

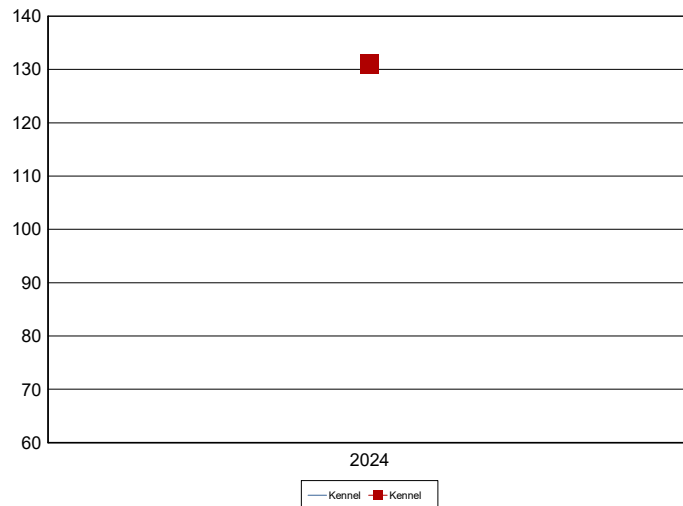


Hind Quarter

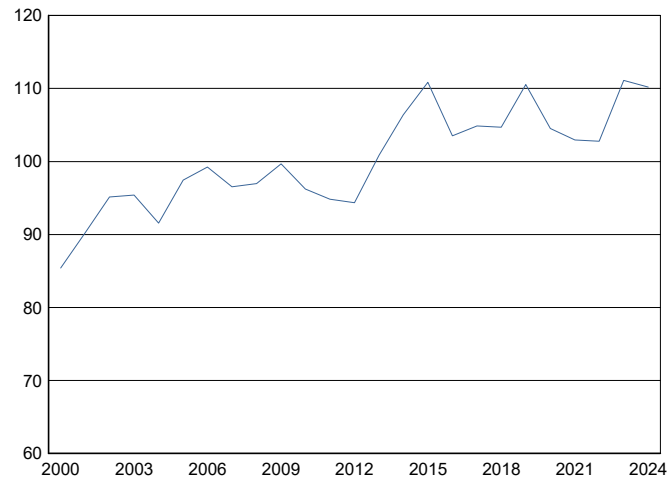


Final Score & Health Traits

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	Sire	Dam	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Progeny	Hips	Elbows	
	BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score	Litters	Kennels			
APOSTLE BAKKIE	ELEVATION KAROOLS		9.94	107	78	95	112	129	107	123	121	129	115	118	124					
	2024	OUTLAW KIARA		5	5	19	34	7	44	33	44	34	36	38	41					

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 Progeny	Kennels Kennels	Hips Hips	Elbows Elbows	Progeny Progeny	with with	litters litters
OUTLAW KIARA	2021	KLEIN SANDFONTEIN JAKE II OUTLAW GREAT GATSBY	13.80	112 5	90 5	119 19	102 41	122 5	119 57	128 40	118 56	135 42	113 44	112 47	122 52	14	2	1 1						
APOSTLE BRIDGE TO TERABITHIA	2024	ELEVATION KAROOLS OUTLAW KIARA	9.94	107 5	78 5	95 19	112 34	129 7	107 44	123 33	121 44	129 34	115 36	118 38	124 41									
APOSTLE BONNIE	2024	ELEVATION KAROOLS OUTLAW KIARA	9.94	107 5	78 5	95 19	112 34	129 7	107 44	123 33	121 44	129 34	115 36	118 38	124 41									
APOSTLE HOLD MY HALO	2024	ELEVATION KAROOLS OUTLAW KIARA	9.94	107 5	78 5	95 19	112 34	129 7	107 44	123 33	121 44	129 34	115 36	118 38	124 41									
APOSTLE OLOYE	2025	MES PETER PAN OUTLAW KIARA	11.31	103 5	97 5	106 5	102 33	120 5	111 45	121 33	119 45	128 34	118 35	118 38	123 41									

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
ELEVATION KAROOLS		PIET-ZYN-DRIFT BASTRON I	4.32	102	65	71	123	135	94	118	123	124	117	123	126	28 4	7 5	3	5
	2011	HAZENJACHT BBD FIELLA		31	37	53	64	48	72	64	72	65	66	67	70				4
MES PETER PAN		ELEVATION OTTO	9.26	94	103	94	103	118	103	115	120	120	123	123	124	44 7	12 9		8
	2019	MES FIELA SUSSA		5	19	38	64	41	77	64	77	65	67	69	73				2
KLEIN SANDFONTEIN JAKE II		KLEIN SANDFONTEIN HUEY	14.17	112	89	128	89	106	117	110	94	108	86	97	97	17 4	7 6		6
	2020	MES PERFECT		5	23	45	61	39	74	60	73	62	63	65	70				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	
OUTLAW GREAT GATSBY		BLACK IRON TUCKER	9.71	113	92	102	114	129	117	142	146	152	147	131	148	16	2	5			4
	2019	BARBARIAN ATHENA		7	36	17	50	20	67	50	66	51	53	56	61			5			1
OUTLAW KIARA		KLEIN SANDFONTEIN JAKE II	13.80	112	90	119	102	122	119	128	118	135	113	112	122	14	2	1			
	2021	OUTLAW GREAT GATSBY		5	5	19	41	5	57	40	56	42	44	47	52			1			

