

Boerboel Genetic Evaluation

SA Stud Book
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Kennel Number: 611555



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.

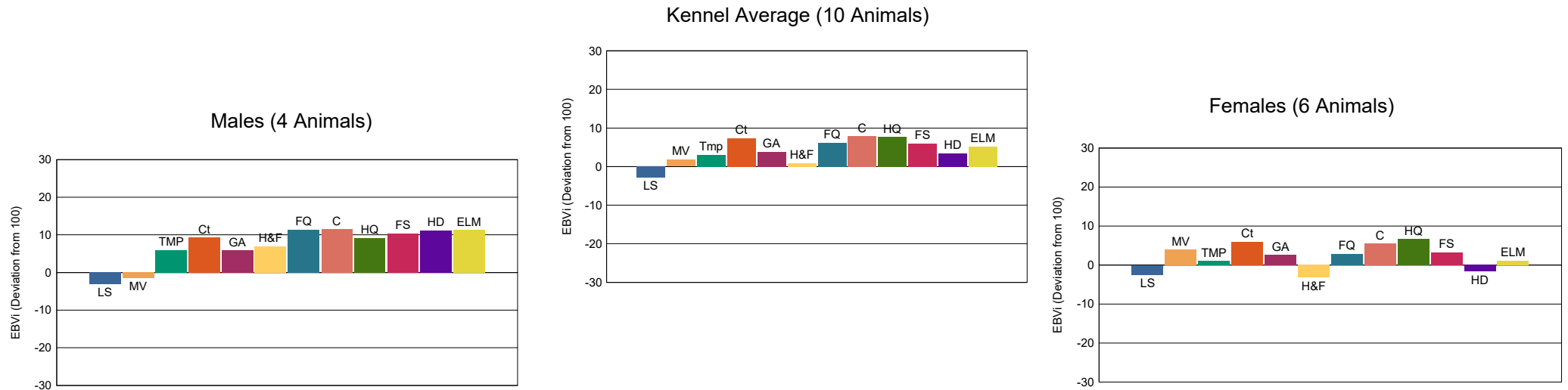
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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)	97	97	98
Movement (Mv)	102	99	104
Temperament (Tmp)	103	106	101
Coat (Ct)	107	109	106
General Appearance	104	106	103
Head & Face (H&F)	101	107	97
Front Quarter (FQ)	106	111	103
Centre (C)	108	111	105
Hind Quarter (HQ)	108	109	107
Final Score (FS)	106	110	103
Hip Health (HH)	103	111	98
Elbow Health (ELM)	105	111	101

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.

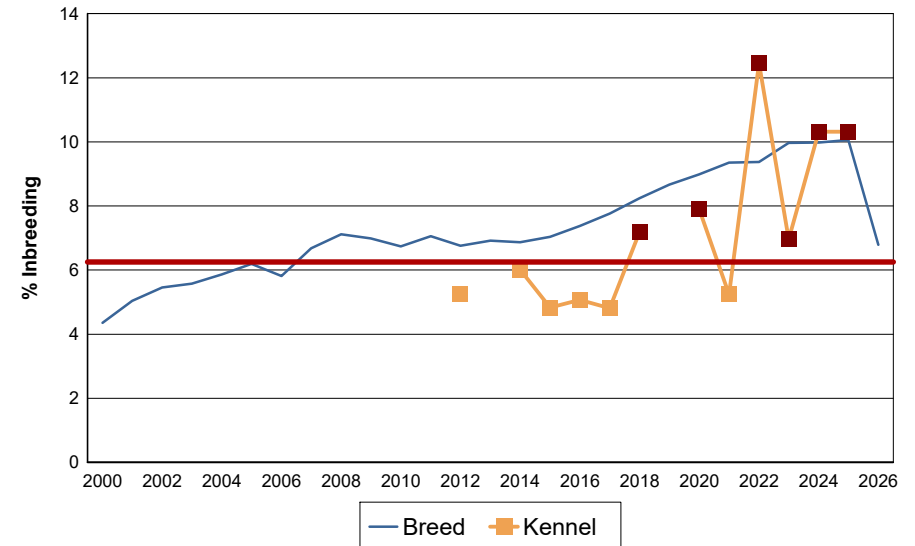
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

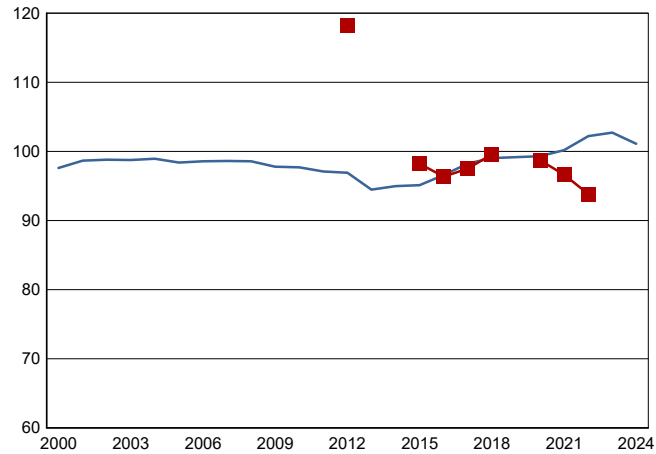


Inbreeding Levels

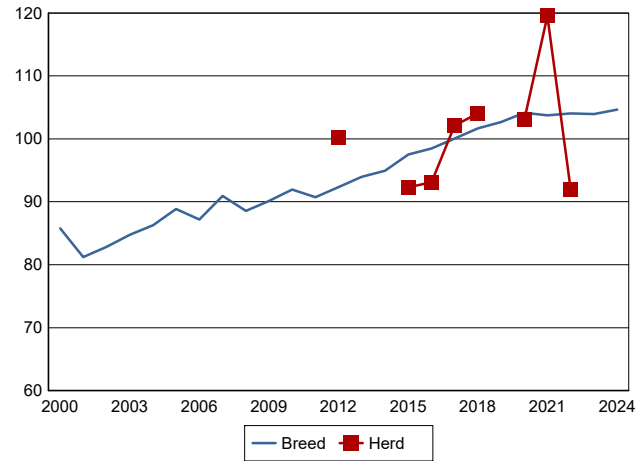
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	10	49007	4	25141	6	23857	7	3371	6	6287
Average Inbreeding	7.56	8.49	6.40	8.46	8.34	8.53	5.75	8.01	5.09	8.00
Number inbred	10	48727	4	24990	6	23728	7	24990	6	23728
Number >6.25% Inbr.	4	30600	1	15537	3	15058	2	15537	1	15058

Genetic Trends

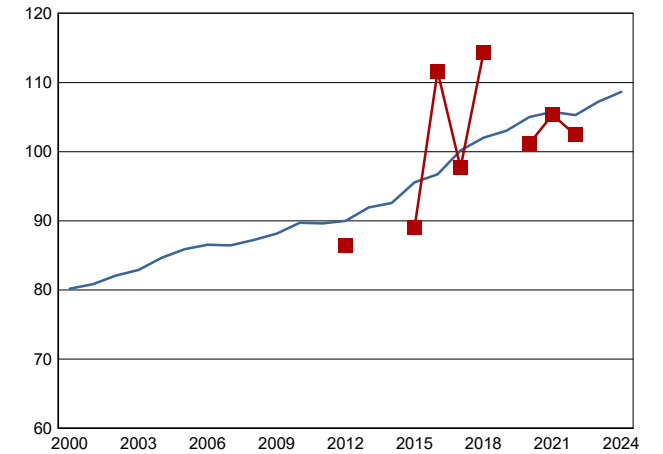
Litter Size



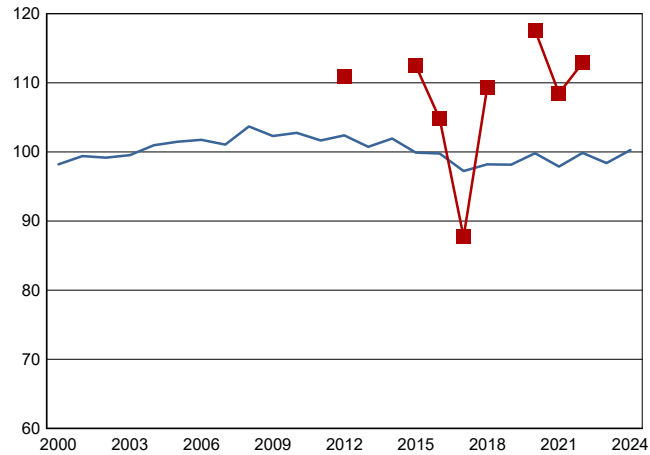
Movement



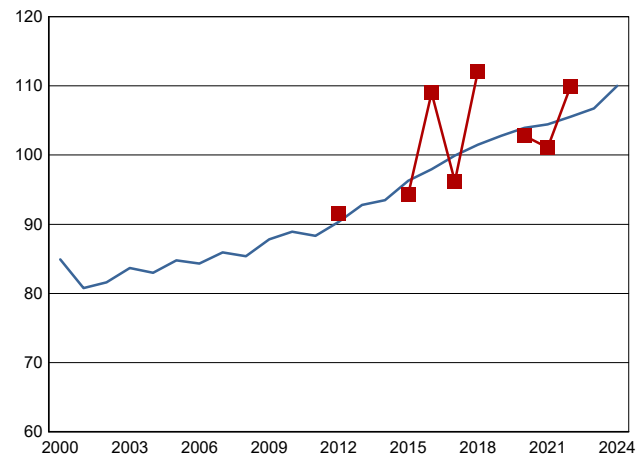
Temperament



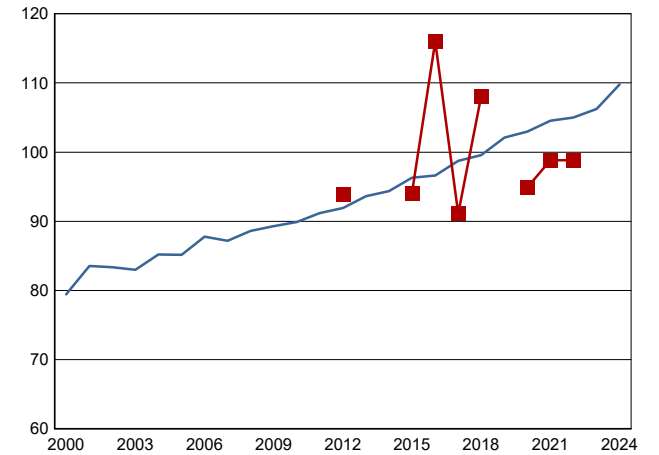
Coat



General Appearance

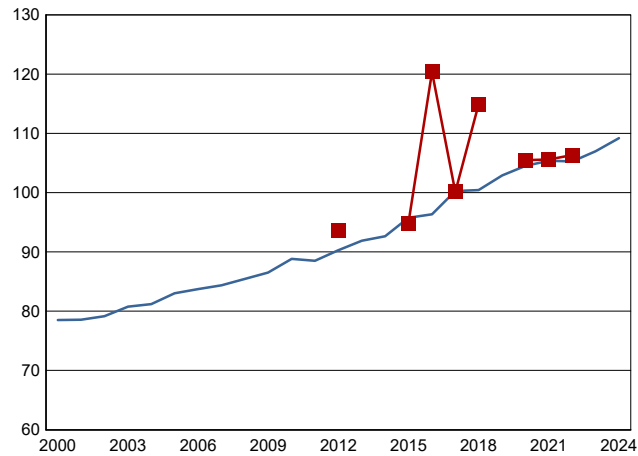


Head & Face

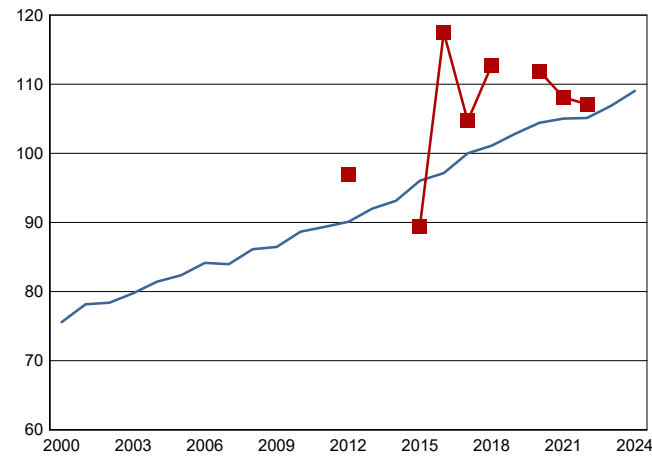


Genetic Trends

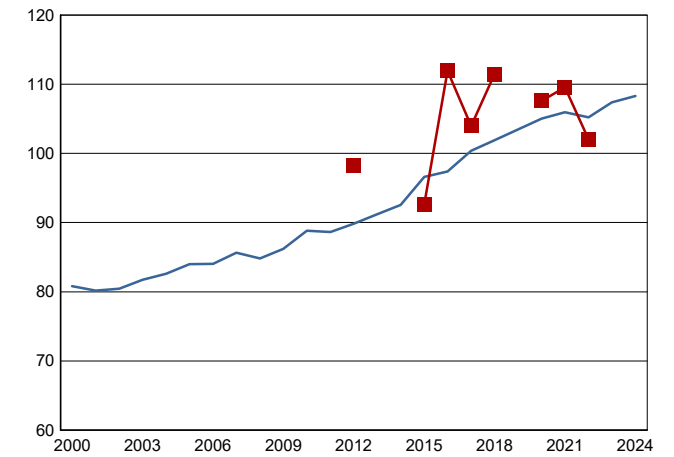
Front Quarter



Centre

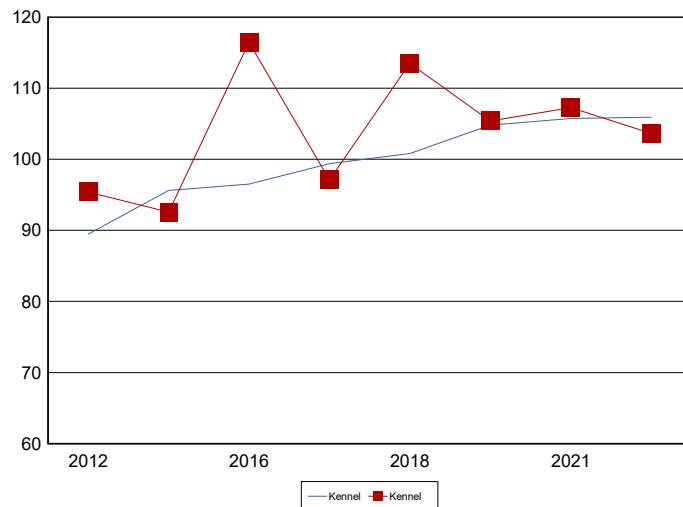


Hind Quarter

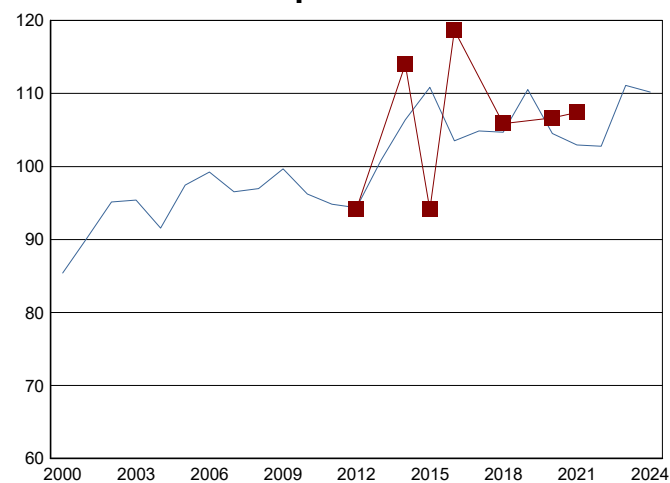


Final Score & Health Traits

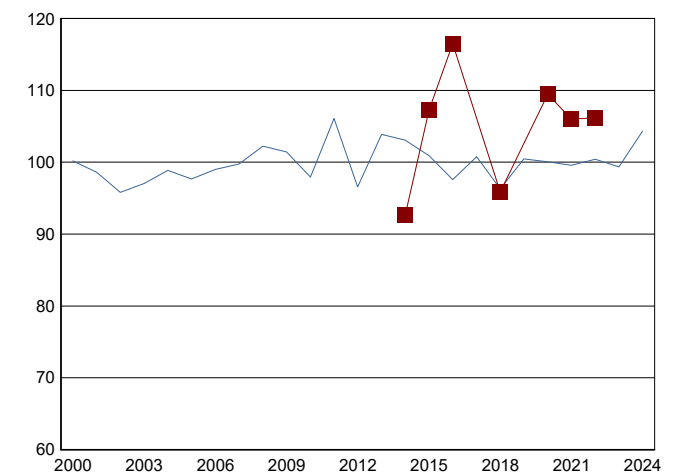
Final Score



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	%	Hips	Elbows	Litter Size	Move-	Tempe-	Coat	General	Head &	Front	Centre	Hind	Final	Progeny	Litters	Progeny	Hips	Elbows	litters
BYr	Dam		Acc.	Acc.	Acc.	ment	rament		Appear.	Face	Quarter		Quarter	Score			Kennels			
ISENLOH DASH	MIDDELPOS BBD ALPHA	5.36	118	119	97	91	109	109	110	113	118	117	113	115	18	2	1	2	2	3
	2016 RAINBOWGLADE SAPHIR		33	45	36	53	37	66	53	66	54	56	58	62			1			1
ISENLOH GREAT GENTLE GUNMAN	KLEIN SANDFONTEIN HUEY	3.95	107	98	100	112	117	106	109	114	118	117	117	119	18	2	2	2	2	2
	2018 RAINBOWGLADE SAPHIR		36	51	30	47	29	60	47	60	48	50	52	56			2			1
ISENLOH HOWLITH	ISENLOH DASH	10.69	98	112	98		99	110	101	103	106	104	103	104	6	2				
	2018 ISENLOH CALYPSO		19	42	5		5	27	5	26	6	11	15	21						
ISENLOH JABBA	ISENLOH DASH	5.59	122	117	93	99	98	112	104	98	104	107	104	103	5	1	2			1
	2020 ANGEL MICHAEL'S SANNA		19	37	10	34	5	49	34	48	35	37	39	44			2		1	1

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	Progeny with litters
ISENLOH HELIODORE	2018	ISENLOH DASH ISENLOH CALYPSO	10.69	106 5	113 5	98 5		99 5	110 27	101 5	103 26	106 6	104 11	103 15	104 21						
BULGARIA BBQ A-RUBEY	2019	GIANTS OF AFRICA BONO GIANTS OF AFRICA MARTINA	5.93	79 32	94 53	97 7	110 23	100 5	102 33	104 23	91 33	96 24	104 25	112 27	102 30	2	1				
ISENLOH KASSIOPEIA	2020	ISENLOH GREAT GENTLE GUNMAN ISENLOH CALYPSO	10.22	91 7	102 34	99 5	103 5	103 5	108 22	101 5	104 21	106 5	104 5	105 5	106 15	7	1				
ISENLOH LINNI	2021	ISENLOH GREAT GENTLE GUNMAN ANGEL MICHAEL'S SANNA	5.24	107 5	106 9		124 37		108 55	100 37	97 54	105 38	108 41	110 43	107 49	6	2				
ISENLOH MARSHMALLOW	2022	ISENLOH JABBA ISENLOH GLAMOUR GIRL GEORGIA	12.45	117 5	106 5	96 5	86 29	99 5	116 51	107 29	96 50	106 31	107 34	99 37	101 44						
ISENLOH OTILIE	2023	ISENLOH ILOX PACO BULGARIA BBQ A-RUBEY	5.53	91 5	86 29	99 5	109 5	99 5	92 18	102 5	90 17	100 5	106 5	110 7	100 13						

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			
MIDDELPOS BBD ALPHA		GROENBERG BBD RAMBO	8.21	125	117	108	101	118	94	105	112	131	119	126	120	176 37	89 62	20 20	72 19		
	2012	MIDDELPOS BBD TRIX		57	63	79	87	74	92	87	92	87	88	89	91						
GIANTS OF AFRICA BONO		ELEVATION HUDSON	7.10	98	94	89	111	92	115	94	91	95	101	105	99	3	1 1	2 2	1 1		
	2014	CAMELOT BBD BONNIE		16	34	23	38	16	49	38	48	39	41	42	46						
KLEIN SANDFONTEIN HUEY		GROENBERG BBD RAMBO	5.01	105	72	117	119	129	116	124	102	126	117	124	120	162 28	63 55	13 13	47 10		
	2014	KLEIN SANDFONTEIN KISSKA		52	64	67	81	64	89	80	88	81	83	84	87						
ISENLOH DASH		MIDDELPOS BBD ALPHA	5.36	118	119	97	91	109	109	110	113	118	117	113	115	18 2	1 1	2 2	3 1		
	2016	RAINBOWGLADE SAPHIR		33	45	36	53	37	66	53	66	54	56	58	62						
ISENLOH GREAT GENTLE GUNMAN		KLEIN SANDFONTEIN HUEY	3.95	107	98	100	112	117	106	109	114	118	117	117	119	18 2	2 2	2 2	2 1		
	2018	RAINBOWGLADE SAPHIR		36	51	30	47	29	60	47	60	48	50	52	56						
ISENLOH ILOX PACO		ZUKANDI SANTA	5.01	104	79	101	107	98	83	100	89	104	107	108	98	9 2					
	2018	ISENLOH BAGEL		30	49	5	20	5	33	19	32	21	23	25	29						
ISENLOH JABBA		ISENLOH DASH	5.59	122	117	93	99	98	112	104	98	104	107	104	103	5 1	2 2	1 1	1 1		
	2020	ANGEL MICHAEL'S SANNA		19	37	10	34	5	49	34	48	35	37	39	44						

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	
RAINBOWGLADE SAPHIR	2013	FROM SOUS AFRICA OLAF	2.81	112	114	84	90	99	108	101	109	102	106	98	104	13	2	5 2	5	5	3 1
		UNIQUE RUBI FROM SOUS AFRIKA		27	39	10	32	6	48	32	47	33	35	37	42						
ISENLOH CALYPSO	2015	RAINBOWGLADE RUBEN	4.83	94	107	98	93	89	111	93	94	93	91	93	93	25	3	1 1	2	2	2 1
		ISENLOH AJANI		8	28	5	7	5	24	5	23	8	12	15	19						
GIANTS OF AFRICA MARTINA	2016	MES BITE A BULLET	6.95	89	98	105	110	108	89	114	90	96	108	120	104	1			1	1	1 1
		TAKDAM ALUMINIUM		12	30	34	45	28	55	45	54	46	47	49	52						
ANGEL MICHAEL`S SANNA	2017	STASJA CORNELIUS	6.08	108	114	93	119	92	113	96	87	95	100	101	97	18	2	3 3	2	2	3 1
		DELMA MIKA		5	5	19	46	14	65	46	64	47	50	53	59						
ISENLOH GLAMOUR GIRL GEORGIA	2018	KLEIN SANDFONTEIN HUEY	3.95	111	96	98	96	112	111	115	105	112	110	107	109	5	1	2 2	1		1 1
		RAINBOWGLADE SAPHIR		35	49	31	49	30	62	48	61	49	51	53	57						
BULGARIA BBQ A-RUBEY	2019	GIANTS OF AFRICA BONO	5.93	79	94	97	110	100	102	104	91	96	104	112	102	2	1				
		GIANTS OF AFRICA MARTINA		32	53	7	23	5	33	23	33	24	25	27	30						

