

Boerboel Genetic Evaluation

SA Stud Book
February 2026

0 0 LLUIS PENDORADO ROMERA

CALLE MARIA RAFOLS 10 2A

BORJA

ZARAGOZA

SPAIN



Kennel Number: 716672



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.

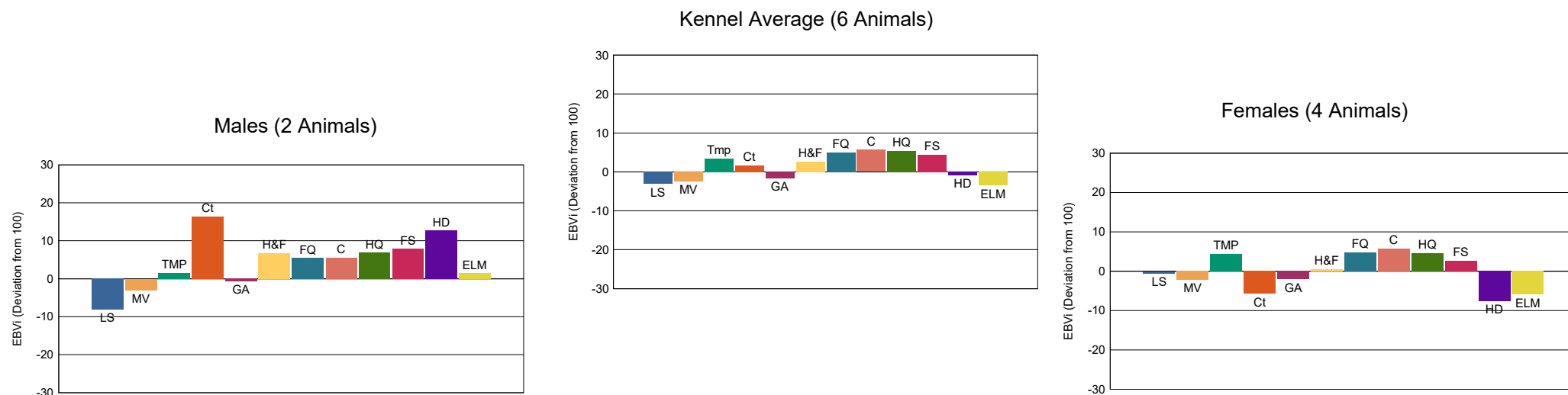
Genetic Trends: The Genetic Trends indicate the genetic change that occurred over time in the animals bred by the breeder compared to that of the breed. These are calculated as the average of the breeding values of all measured animals bred by the breeder, per year of birth.

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	92	99
Movement (Mv)	98	97	98
Temperament (Tmp)	104	102	104
Coat (Ct)	102	116	94
General Appearance	98	99	98
Head & Face (H&F)	103	107	101
Front Quarter (FQ)	105	105	105
Centre (C)	106	106	106
Hind Quarter (HQ)	105	107	105
Final Score (FS)	104	108	103
Hip Health (HH)	99	113	92
Elbow Health (ELM)	97	101	94

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.

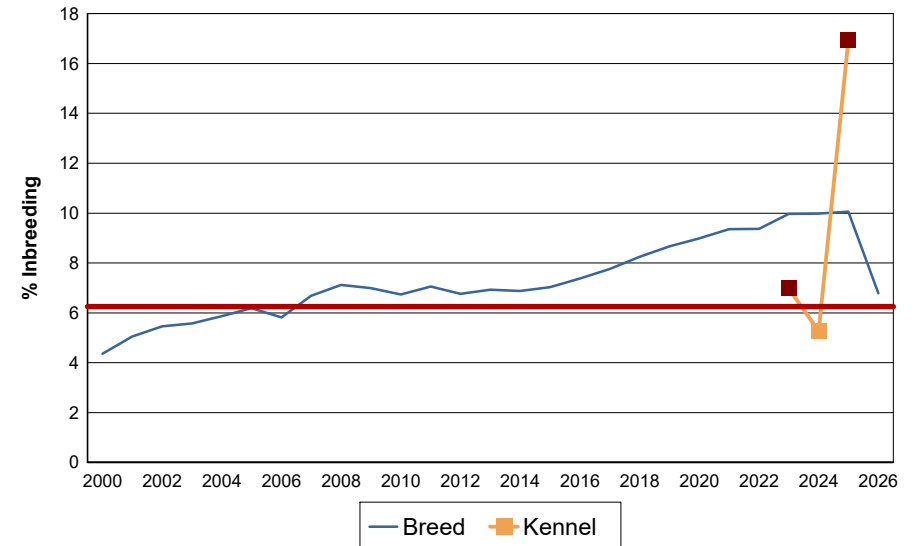
It is therefore highly recommended to record pedigree information as accurately. Inbreeding is dependent on pedigree information. Conventional methods for the calculation of inbreeding coefficients usually assume that unknown parents are unrelated, which is usually far from the truth. Inbreeding coefficients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

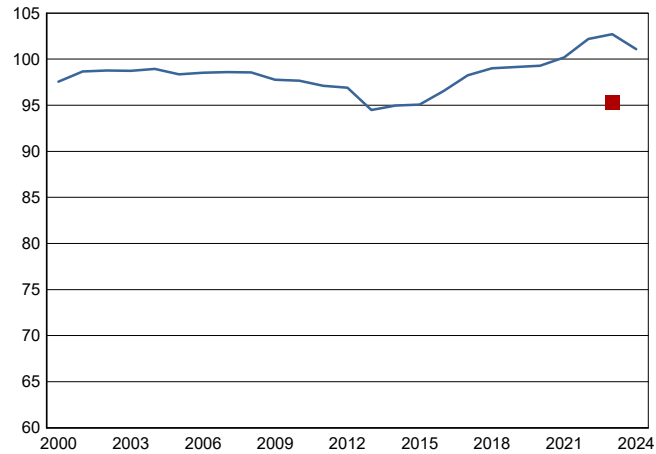


Inbreeding Levels

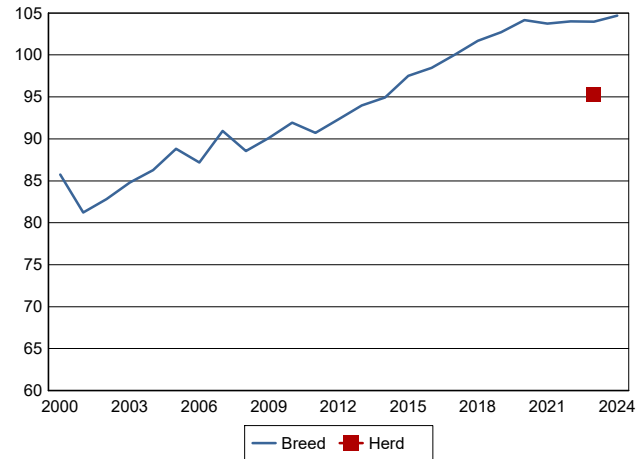
	All Animals		Males		Females		Sires		Dams	
	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed	Kennel	Breed
Number	6	49007	2	25141	4	23857	6	3371	6	6287
Average Inbreeding	10.65	8.49	6.83	8.46	12.56	8.53	7.84	8.01	11.68	8.00
Number inbred	6	48727	2	24990	4	23728	6	24990	6	23728
Number >6.25% Inbr.	5	30600	1	15537	4	15058	5	15537	6	15058

Genetic Trends

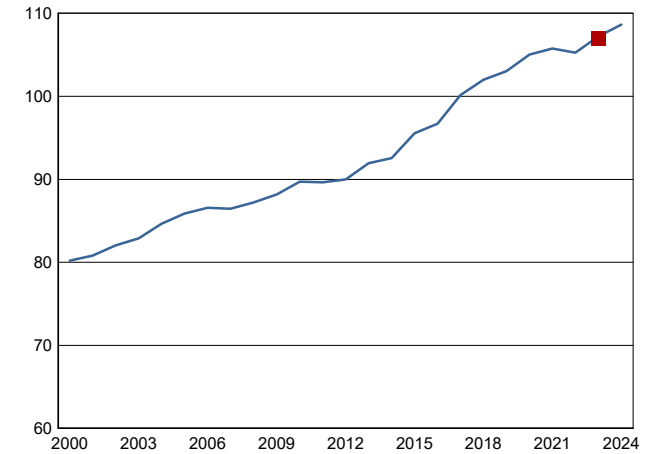
Litter Size



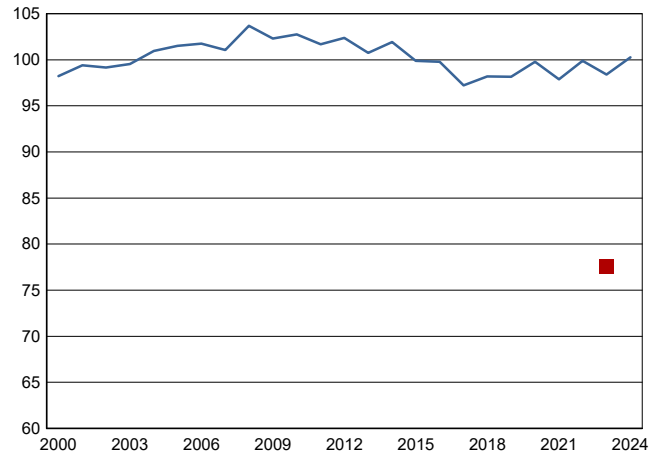
Movement



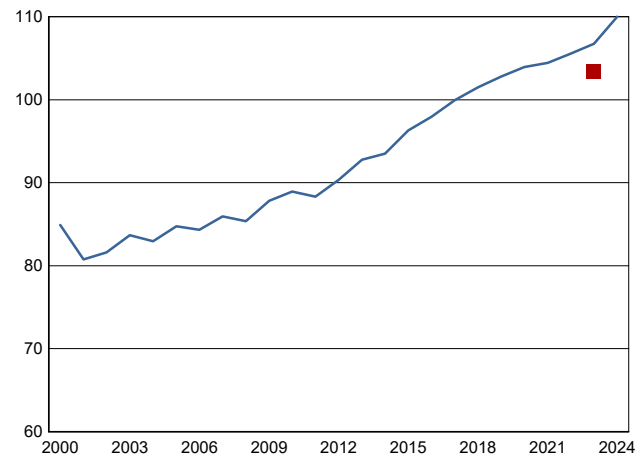
Temperament



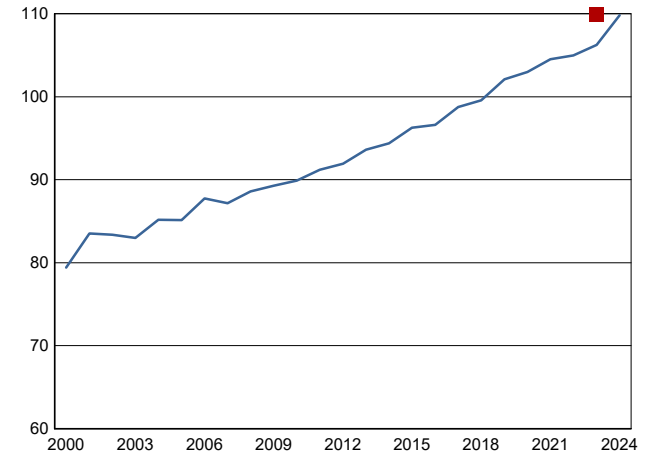
Coat



General Appearance

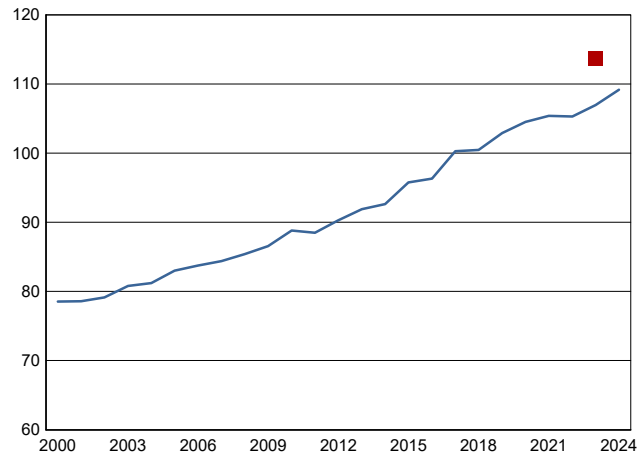


Head & Face

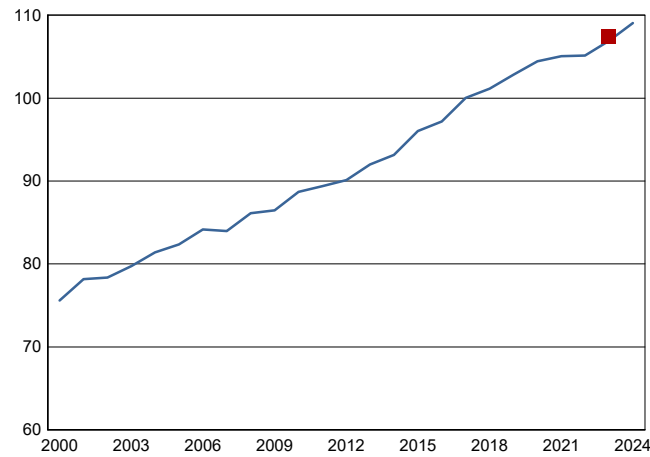


Genetic Trends

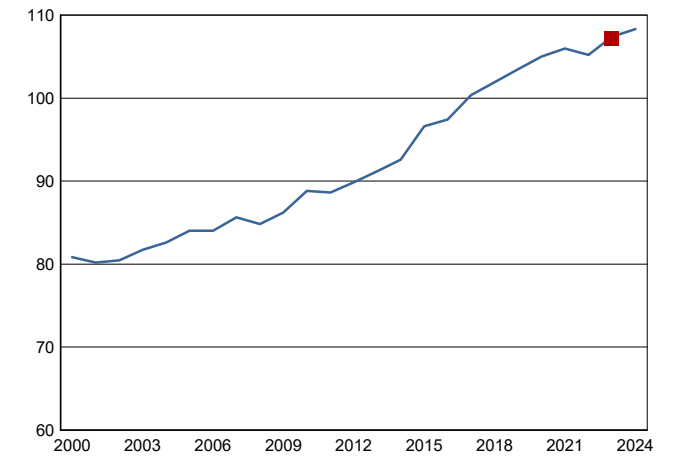
Front Quarter



Centre



Hind Quarter

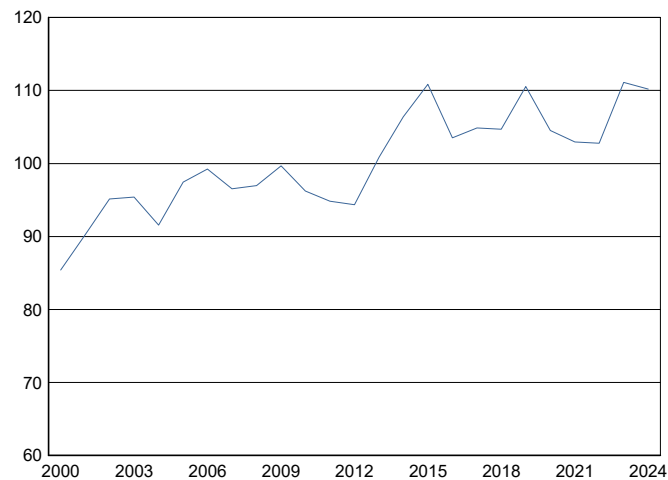


Final Score & Health Traits

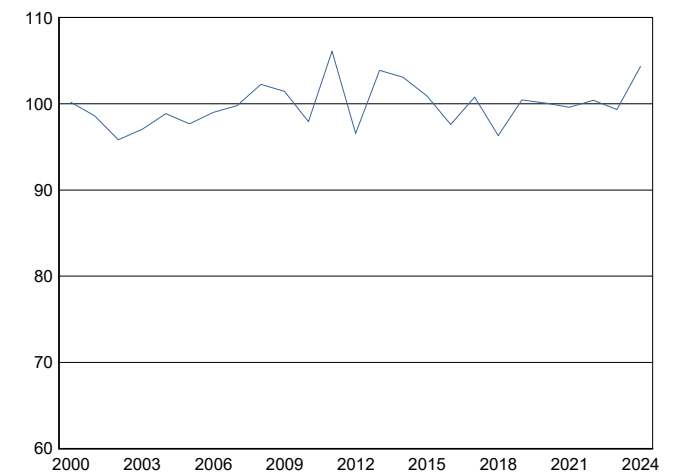
Final Score



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	
KILIAN DOZER		ELEVATION BEN 3	9.72	105	85	94	110	107	122	106	112	105	106	115	115	12	1	5			1
	2020	KILIAN IVANKA		5	5	15	49	21	64	48	63	50	52	54	59			5			1
VOICE VITA CAOTICO		MIDDELPOS BBD BRUCE	3.94	120	118	90	84	96	111	92	101	106	105	99	101						
	2024	VOICE VELD CHANGE OF THE MOON		5	27	5	26	5	39	26	38	27	29	31	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 Progeny	Litters Litters	Progeny Kennels	Hips Elbows	Progeny with litters
SERRA DE SOAJO REBECA	2018	SERRA DE SOAJO TED SERRA DE SOAJO MANCHA	22.18	89 5	93 5	107 5	86 5	95 5	112 22	90 5	95 20	96 5	104 5	93 5	96 6	4	1			
BENIAIAH SALSA	2019	ZUKANDI CAINE BLACK IRON PHOENIX	13.46	75 5	83 5	95 5	109 34	107 5	82 48	105 33	94 47	107 35	106 37	113 39	103 43	6	1	2 2		
SERRA DE SOAJO MARA I	2020	AFRIKA TARZAN SERRA DE SOAJO SULA	7.63	101 5	84 5	101 5	103 38	108 5	115 57	92 37	105 56	104 39	108 42	108 45	109 51	2	1			
ZEFURIAN EBERE	2023	MIDDELPOS BBD JAVA BENIAIAH SALSA	6.98	105 5	116 5	95 5	94 39	107 5	68 56	105 38	108 54	112 39	104 42	104 44	103 50					

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	
ZUKANDI CAINE		KLEIN SANDFONTEIN ZUKA	8.09	50	78	96	128	113	79	94	97	115	122	124	112	50	7	5	2	2
	2016	ZUKANDI MICKA		34	50	31	53	30	66	52	65	54	56	58	62					
ELEVATION BEN 3		SWELLENDAM KAROLUS	8.73	113	77	79	116	103	110	96	102	100	101	105	105	80	18	21		8
	2016	ELEVATION MELISSA		28	48	35	68	40	82	67	82	69	71	74	78					
SERRA DE SOAJO TED		SERRA DE SOAJO BAMBO	10.88	91	93	103	74	88	105	86	94	91	103	88	91	14	2	1		1
	2017	SERRA DE SOAJO JOIA I		5	5	5	31	5	54	30	53	32	36	39	46					
AFRIKA TARZAN		MES RUBENSTEIN	5.62	112	75	94	109	120	101	99	99	105	99	112	106	73	8	14	2	2
	2018	VOLSPOED MEISIEKIND		23	32	42	61	40	75	61	74	62	64	66	70					
MIDDELPOS BBD BRUCE		MIDDELPOS BBD GAMKA	6.87	128	135	96	95	109	110	99	118	121	115	113	117	16	3	3	1	1
	2019	DELATRO X' SASKIA		5	36	32	53	33	62	52	62	53	55	56	59					
MIDDELPOS BBD JAVA		MIDDELPOS BBD GAMKA	6.87	135	149	96	85	107	92	99	129	124	116	107	117	27	4	4	1	1
	2020	DELATRO X' SASKIA		11	35	32	57	35	70	57	69	58	60	62	66					

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	
SERRA DE SOAJO MANCHA	2016	CABARET MAC	11.01	87	93	111	98	103	119	94	97	101	106	98	102	9	1	1			1
		SERRA DE SOAJO MALI		5	5	30	38	5	57	37	56	39	42	44	50			1			1
BLACK IRON PHOENIX	2017	KLEIN SANDFONTEIN HUEY	7.80	100	89	94	93	100	104	114	95	102	97	107	100	16	2				1
		KLEIN SANDFONTEIN AVIVA		5	17	39	52	31	65	51	64	52	54	56	61						1
KILIAN IVANKA	2017	ELEVATION DAX	6.93	97	94	108	111	115	109	120	127	113	111	120	123	13	2	5	1	1	3
		KILLIAN RABBADOE		10	25	40	58	37	72	57	71	59	61	63	67			5			1
VOICE VELD CHANGE OF THE MOON	2018	VOICE VELD MAYBAH	8.68	112	100	85	74	83	112	86	84	91	95	84	85	23	3	6			3
		VOICE VELD DIANA ROSS		5	54	5	20	5	42	19	41	21	25	28	35			5	2	2	1
SERRA DE SOAJO SULA	2018	SERRA DE SOAJO TED	22.18	89	93	107	88	97	118	89	102	99	106	96	101	3		3			1
		SERRA DE SOAJO MANCHA		5	5	5	17	5	50	15	48	20	25	31	40			3			1
BENAIHA Salsa	2019	ZUKANDI CAINE	13.46	75	83	95	109	107	82	105	94	107	106	113	103	6	1	2			
		BLACK IRON PHOENIX		5	5	5	34	5	48	33	47	35	37	39	43			2			

